

| Ant 0           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 33.00                     | 32.95 | 32.66  | 33.50                     | 24.00                     | 23.95 | 23.66  | 24.50                     |
| GPRS 1 Tx slot  | 33.01                     | 32.96 | 32.68  | 33.50                     | 24.01                     | 23.96 | 23.68  | 24.50                     |
| GPRS 2 Tx slots | 32.05                     | 31.81 | 31.55  | 32.50                     | 26.05                     | 25.81 | 25.55  | 26.50                     |
| GPRS 3 Tx slots | 29.98                     | 29.68 | 29.38  | 30.50                     | 25.72                     | 25.42 | 25.12  | 26.24                     |
| GPRS 4 Tx slots | 28.49                     | 28.19 | 27.90  | 29.50                     | 25.49                     | 25.19 | 24.90  | 26.50                     |
| EDGE 1 Tx slot  | 26.76                     | 26.50 | 26.18  | 27.50                     | 17.76                     | 17.50 | 17.18  | 18.50                     |
| EDGE 2 Tx slots | 26.36                     | 26.15 | 25.74  | 27.00                     | 20.36                     | 20.15 | 19.74  | 21.00                     |
| EDGE 3 Tx slots | 24.51                     | 24.25 | 24.10  | 25.00                     | 20.25                     | 19.99 | 19.84  | 20.74                     |
| EDGE 4 Tx slots | 22.36                     | 22.51 | 21.92  | 23.00                     | 19.36                     | 19.51 | 18.92  | 20.00                     |
| Ant 2           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.42                     | 30.08 | 29.96  | 30.50                     | 20.42                     | 21.08 | 20.96  | 21.50                     |
| GPRS 1 Tx slot  | 29.43                     | 30.11 | 29.99  | 30.50                     | 20.43                     | 21.11 | 20.99  | 21.50                     |
| GPRS 2 Tx slots | 29.01                     | 29.38 | 29.20  | 29.70                     | 23.01                     | 23.38 | 23.20  | 23.70                     |
| GPRS 3 Tx slots | 27.03                     | 27.74 | 27.61  | 28.00                     | 22.77                     | 23.48 | 23.35  | 23.74                     |
| GPRS 4 Tx slots | 25.99                     | 26.75 | 26.32  | 27.00                     | 22.99                     | 23.75 | 23.32  | 24.00                     |
| EDGE 1 Tx slot  | 25.82                     | 26.18 | 26.02  | 26.50                     | 16.82                     | 17.18 | 17.02  | 17.50                     |
| EDGE 2 Tx slots | 25.41                     | 25.61 | 25.39  | 26.00                     | 19.41                     | 19.61 | 19.39  | 20.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.47 | 24.22  | 25.00                     | 20.18                     | 20.21 | 19.96  | 20.74                     |
| EDGE 4 Tx slots | 23.08                     | 23.62 | 22.53  | 24.00                     | 20.08                     | 20.62 | 19.53  | 21.00                     |

| Ant 1           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 32.78                     | 32.70 | 32.44  | 33.50                     | 23.78                     | 23.70 | 23.44  | 24.50                     |
| GPRS 1 Tx slot  | 32.79                     | 32.71 | 32.45  | 33.50                     | 23.79                     | 23.71 | 23.45  | 24.50                     |
| GPRS 2 Tx slots | 31.93                     | 31.65 | 31.36  | 32.50                     | 25.93                     | 25.65 | 25.36  | 26.50                     |
| GPRS 3 Tx slots | 30.01                     | 29.62 | 29.22  | 30.50                     | 25.75                     | 25.36 | 24.96  | 26.24                     |
| GPRS 4 Tx slots | 28.60                     | 28.17 | 27.76  | 29.50                     | 25.60                     | 25.17 | 24.76  | 26.50                     |
| EDGE 1 Tx slot  | 26.86                     | 26.44 | 26.01  | 27.50                     | 17.86                     | 17.44 | 17.01  | 18.50                     |
| EDGE 2 Tx slots | 26.33                     | 26.10 | 25.60  | 27.00                     | 20.33                     | 20.10 | 19.60  | 21.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.06 | 23.92  | 25.00                     | 20.18                     | 19.80 | 19.66  | 20.74                     |
| EDGE 4 Tx slots | 22.24                     | 22.33 | 21.73  | 23.00                     | 19.24                     | 19.33 | 18.73  | 20.00                     |
| Ant 0           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.39                     | 29.75 | 29.46  | 30.00                     | 20.39                     | 20.75 | 20.46  | 21.00                     |
| GPRS 1 Tx slot  | 29.40                     | 29.77 | 29.47  | 30.00                     | 20.40                     | 20.77 | 20.47  | 21.00                     |
| GPRS 2 Tx slots | 28.79                     | 29.00 | 28.76  | 29.20                     | 22.79                     | 23.00 | 22.76  | 23.20                     |
| GPRS 3 Tx slots | 27.24                     | 27.48 | 27.24  | 27.50                     | 22.98                     | 23.22 | 22.98  | 23.24                     |
| GPRS 4 Tx slots | 26.14                     | 26.20 | 25.61  | 26.50                     | 23.14                     | 23.20 | 22.61  | 23.50                     |
| EDGE 1 Tx slot  | 25.56                     | 25.65 | 25.47  | 26.00                     | 16.56                     | 16.65 | 16.47  | 17.00                     |
| EDGE 2 Tx slots | 25.25                     | 25.11 | 24.91  | 25.50                     | 19.25                     | 19.11 | 18.91  | 19.50                     |
| EDGE 3 Tx slots | 24.00                     | 23.73 | 23.58  | 24.50                     | 19.74                     | 19.47 | 19.32  | 20.24                     |
| EDGE 4 Tx slots | 22.87                     | 23.11 | 22.03  | 23.50                     | 19.87                     | 20.11 | 19.03  | 20.50                     |

| Ant 0           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 33.00                     | 32.95 | 32.66  | 33.50                     | 24.00                     | 23.95 | 23.66  | 24.50                     |
| GPRS 1 Tx slot  | 33.01                     | 32.96 | 32.68  | 33.50                     | 24.01                     | 23.96 | 23.68  | 24.50                     |
| GPRS 2 Tx slots | 32.05                     | 31.81 | 31.55  | 32.50                     | 26.05                     | 25.81 | 25.55  | 26.50                     |
| GPRS 3 Tx slots | 29.98                     | 29.68 | 29.38  | 30.50                     | 25.72                     | 25.42 | 25.12  | 26.24                     |
| GPRS 4 Tx slots | 28.49                     | 28.19 | 27.90  | 29.50                     | 25.49                     | 25.19 | 24.90  | 26.50                     |
| EDGE 1 Tx slot  | 26.76                     | 26.50 | 26.18  | 27.50                     | 17.76                     | 17.50 | 17.18  | 18.50                     |
| EDGE 2 Tx slots | 26.36                     | 26.15 | 25.74  | 27.00                     | 20.36                     | 20.15 | 19.74  | 21.00                     |
| EDGE 3 Tx slots | 24.51                     | 24.25 | 24.10  | 25.00                     | 20.25                     | 19.99 | 19.84  | 20.74                     |
| EDGE 4 Tx slots | 22.36                     | 22.51 | 21.92  | 23.00                     | 19.36                     | 19.51 | 18.92  | 20.00                     |
| Ant 2           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.42                     | 30.08 | 29.96  | 30.50                     | 20.42                     | 21.08 | 20.96  | 21.50                     |
| GPRS 1 Tx slot  | 29.43                     | 30.11 | 29.99  | 30.50                     | 20.43                     | 21.11 | 20.99  | 21.50                     |
| GPRS 2 Tx slots | 29.01                     | 29.38 | 29.20  | 29.70                     | 23.01                     | 23.38 | 23.20  | 23.70                     |
| GPRS 3 Tx slots | 27.03                     | 27.74 | 27.61  | 28.00                     | 22.77                     | 23.48 | 23.35  | 23.74                     |
| GPRS 4 Tx slots | 25.99                     | 26.75 | 26.32  | 27.00                     | 22.99                     | 23.75 | 23.32  | 24.00                     |
| EDGE 1 Tx slot  | 25.82                     | 26.18 | 26.02  | 26.50                     | 16.82                     | 17.18 | 17.02  | 17.50                     |
| EDGE 2 Tx slots | 25.41                     | 25.61 | 25.39  | 26.00                     | 19.41                     | 19.61 | 19.39  | 20.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.47 | 24.22  | 25.00                     | 20.18                     | 20.21 | 19.96  | 20.74                     |
| EDGE 4 Tx slots | 23.08                     | 23.62 | 22.53  | 24.00                     | 20.08                     | 20.62 | 19.53  | 21.00                     |

| Ant 1           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 31.61                     | 31.95 | 31.55  | 33.30                     | 22.61                     | 22.95 | 22.55  | 24.30                     |
| GPRS 1 Tx slot  | 31.63                     | 31.96 | 31.55  | 33.30                     | 22.63                     | 22.96 | 22.55  | 24.30                     |
| GPRS 2 Tx slots | 28.86                     | 28.92 | 28.70  | 30.30                     | 22.86                     | 22.92 | 22.70  | 24.30                     |
| GPRS 3 Tx slots | 27.06                     | 27.02 | 26.83  | 28.50                     | 22.80                     | 22.76 | 22.57  | 24.24                     |
| GPRS 4 Tx slots | 25.85                     | 25.90 | 25.60  | 27.30                     | 22.85                     | 22.90 | 22.60  | 24.30                     |
| EDGE 1 Tx slot  | 25.62                     | 25.80 | 25.60  | 27.50                     | 16.62                     | 16.80 | 16.60  | 18.50                     |
| EDGE 2 Tx slots | 25.59                     | 25.52 | 25.39  | 27.00                     | 19.59                     | 19.52 | 19.39  | 21.00                     |
| EDGE 3 Tx slots | 23.72                     | 23.94 | 23.72  | 25.00                     | 19.46                     | 19.68 | 19.46  | 20.74                     |
| EDGE 4 Tx slots | 21.55                     | 21.90 | 21.39  | 23.00                     | 18.55                     | 18.90 | 18.39  | 20.00                     |
| Ant 0           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.39                     | 29.75 | 29.46  | 30.00                     | 20.39                     | 20.75 | 20.46  | 21.00                     |
| GPRS 1 Tx slot  | 29.40                     | 29.77 | 29.47  | 30.00                     | 20.40                     | 20.77 | 20.47  | 21.00                     |
| GPRS 2 Tx slots | 28.79                     | 29.00 | 28.76  | 29.20                     | 22.79                     | 23.00 | 22.76  | 23.20                     |
| GPRS 3 Tx slots | 27.24                     | 27.48 | 27.24  | 27.50                     | 22.98                     | 23.22 | 22.98  | 23.24                     |
| GPRS 4 Tx slots | 26.14                     | 26.20 | 25.61  | 26.50                     | 23.14                     | 23.20 | 22.61  | 23.50                     |
| EDGE 1 Tx slot  | 25.56                     | 25.65 | 25.47  | 26.00                     | 16.56                     | 16.65 | 16.47  | 17.00                     |
| EDGE 2 Tx slots | 25.25                     | 25.11 | 24.91  | 25.50                     | 19.25                     | 19.11 | 18.91  | 19.50                     |
| EDGE 3 Tx slots | 24.00                     | 23.73 | 23.58  | 24.50                     | 19.74                     | 19.47 | 19.32  | 20.24                     |
| EDGE 4 Tx slots | 22.87                     | 23.11 | 22.03  | 23.50                     | 19.87                     | 20.11 | 19.03  | 20.50                     |

| Ant 0           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 33.00                     | 32.95 | 32.66  | 33.50                     | 24.00                     | 23.95 | 23.66  | 24.50                     |
| GPRS 1 Tx slot  | 33.01                     | 32.96 | 32.68  | 33.50                     | 24.01                     | 23.96 | 23.68  | 24.50                     |
| GPRS 2 Tx slots | 32.05                     | 31.81 | 31.55  | 32.50                     | 26.05                     | 25.81 | 25.55  | 26.50                     |
| GPRS 3 Tx slots | 29.98                     | 29.68 | 29.38  | 30.50                     | 25.72                     | 25.42 | 25.12  | 26.24                     |
| GPRS 4 Tx slots | 28.49                     | 28.19 | 27.90  | 29.50                     | 25.49                     | 25.19 | 24.90  | 26.50                     |
| EDGE 1 Tx slot  | 26.76                     | 26.50 | 26.18  | 27.50                     | 17.76                     | 17.50 | 17.18  | 18.50                     |
| EDGE 2 Tx slots | 26.36                     | 26.15 | 25.74  | 27.00                     | 20.36                     | 20.15 | 19.74  | 21.00                     |
| EDGE 3 Tx slots | 24.51                     | 24.25 | 24.10  | 25.00                     | 20.25                     | 19.99 | 19.84  | 20.74                     |
| EDGE 4 Tx slots | 22.36                     | 22.51 | 21.92  | 23.00                     | 19.36                     | 19.51 | 18.92  | 20.00                     |
| Ant 2           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.42                     | 30.08 | 29.96  | 30.50                     | 20.42                     | 21.08 | 20.96  | 21.50                     |
| GPRS 1 Tx slot  | 29.43                     | 30.11 | 29.99  | 30.50                     | 20.43                     | 21.11 | 20.99  | 21.50                     |
| GPRS 2 Tx slots | 29.01                     | 29.38 | 29.20  | 29.70                     | 23.01                     | 23.38 | 23.20  | 23.70                     |
| GPRS 3 Tx slots | 27.03                     | 27.74 | 27.61  | 28.00                     | 22.77                     | 23.48 | 23.35  | 23.74                     |
| GPRS 4 Tx slots | 25.99                     | 26.75 | 26.32  | 27.00                     | 22.99                     | 23.75 | 23.32  | 24.00                     |
| EDGE 1 Tx slot  | 25.82                     | 26.18 | 26.02  | 26.50                     | 16.82                     | 17.18 | 17.02  | 17.50                     |
| EDGE 2 Tx slots | 25.41                     | 25.61 | 25.39  | 26.00                     | 19.41                     | 19.61 | 19.39  | 20.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.47 | 24.22  | 25.00                     | 20.18                     | 20.21 | 19.96  | 20.74                     |
| EDGE 4 Tx slots | 23.08                     | 23.62 | 22.53  | 24.00                     | 20.08                     | 20.62 | 19.53  | 21.00                     |

| Ant 1           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 32.78                     | 32.70 | 32.44  | 33.50                     | 23.78                     | 23.70 | 23.44  | 24.50                     |
| GPRS 1 Tx slot  | 32.79                     | 32.71 | 32.45  | 33.50                     | 23.79                     | 23.71 | 23.45  | 24.50                     |
| GPRS 2 Tx slots | 31.93                     | 31.65 | 31.36  | 32.50                     | 25.93                     | 25.65 | 25.36  | 26.50                     |
| GPRS 3 Tx slots | 30.01                     | 29.62 | 29.22  | 30.50                     | 25.75                     | 25.36 | 24.96  | 26.24                     |
| GPRS 4 Tx slots | 28.60                     | 28.17 | 27.76  | 29.50                     | 25.60                     | 25.17 | 24.76  | 26.50                     |
| EDGE 1 Tx slot  | 26.86                     | 26.44 | 26.01  | 27.50                     | 17.86                     | 17.44 | 17.01  | 18.50                     |
| EDGE 2 Tx slots | 26.33                     | 26.10 | 25.60  | 27.00                     | 20.33                     | 20.10 | 19.60  | 21.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.06 | 23.92  | 25.00                     | 20.18                     | 19.80 | 19.66  | 20.74                     |
| EDGE 4 Tx slots | 22.24                     | 22.33 | 21.73  | 23.00                     | 19.24                     | 19.33 | 18.73  | 20.00                     |
| Ant 0           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 27.80                     | 28.26 | 27.88  | 29.30                     | 18.80                     | 19.26 | 18.88  | 20.30                     |
| GPRS 1 Tx slot  | 27.81                     | 28.27 | 27.90  | 29.30                     | 18.81                     | 19.27 | 18.90  | 20.30                     |
| GPRS 2 Tx slots | 24.95                     | 25.14 | 24.89  | 26.30                     | 18.95                     | 19.14 | 18.89  | 20.30                     |
| GPRS 3 Tx slots | 23.08                     | 23.42 | 23.03  | 24.50                     | 18.82                     | 19.16 | 18.77  | 20.24                     |
| GPRS 4 Tx slots | 21.74                     | 22.09 | 21.72  | 23.30                     | 18.74                     | 19.09 | 18.72  | 20.30                     |
| EDGE 1 Tx slot  | 25.74                     | 25.85 | 25.57  | 26.00                     | 16.74                     | 16.85 | 16.57  | 17.00                     |
| EDGE 2 Tx slots | 24.91                     | 24.88 | 24.52  | 25.50                     | 18.91                     | 18.88 | 18.52  | 19.50                     |
| EDGE 3 Tx slots | 22.98                     | 23.27 | 22.50  | 24.50                     | 18.72                     | 19.01 | 18.24  | 20.24                     |
| EDGE 4 Tx slots | 21.67                     | 21.56 | 20.58  | 22.50                     | 18.67                     | 18.56 | 17.58  | 19.50                     |

| Ant 0           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 33.00                     | 32.95 | 32.66  | 33.50                     | 24.00                     | 23.95 | 23.66  | 24.50                     |
| GPRS 1 Tx slot  | 33.01                     | 32.96 | 32.68  | 33.50                     | 24.01                     | 23.96 | 23.68  | 24.50                     |
| GPRS 2 Tx slots | 32.05                     | 31.81 | 31.55  | 32.50                     | 26.05                     | 25.81 | 25.55  | 26.50                     |
| GPRS 3 Tx slots | 29.98                     | 29.68 | 29.38  | 30.50                     | 25.72                     | 25.42 | 25.12  | 26.24                     |
| GPRS 4 Tx slots | 28.49                     | 28.19 | 27.90  | 29.50                     | 25.49                     | 25.19 | 24.90  | 26.50                     |
| EDGE 1 Tx slot  | 26.76                     | 26.50 | 26.18  | 27.50                     | 17.76                     | 17.50 | 17.18  | 18.50                     |
| EDGE 2 Tx slots | 26.36                     | 26.15 | 25.74  | 27.00                     | 20.36                     | 20.15 | 19.74  | 21.00                     |
| EDGE 3 Tx slots | 24.51                     | 24.25 | 24.10  | 25.00                     | 20.25                     | 19.99 | 19.84  | 20.74                     |
| EDGE 4 Tx slots | 22.36                     | 22.51 | 21.92  | 23.00                     | 19.36                     | 19.51 | 18.92  | 20.00                     |
| Ant 2           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.42                     | 30.08 | 29.96  | 30.50                     | 20.42                     | 21.08 | 20.96  | 21.50                     |
| GPRS 1 Tx slot  | 29.43                     | 30.11 | 29.99  | 30.50                     | 20.43                     | 21.11 | 20.99  | 21.50                     |
| GPRS 2 Tx slots | 29.01                     | 29.38 | 29.20  | 29.70                     | 23.01                     | 23.38 | 23.20  | 23.70                     |
| GPRS 3 Tx slots | 27.03                     | 27.74 | 27.61  | 28.00                     | 22.77                     | 23.48 | 23.35  | 23.74                     |
| GPRS 4 Tx slots | 25.99                     | 26.75 | 26.32  | 27.00                     | 22.99                     | 23.75 | 23.32  | 24.00                     |
| EDGE 1 Tx slot  | 25.82                     | 26.18 | 26.02  | 26.50                     | 16.82                     | 17.18 | 17.02  | 17.50                     |
| EDGE 2 Tx slots | 25.41                     | 25.61 | 25.39  | 26.00                     | 19.41                     | 19.61 | 19.39  | 20.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.47 | 24.22  | 25.00                     | 20.18                     | 20.21 | 19.96  | 20.74                     |
| EDGE 4 Tx slots | 23.08                     | 23.62 | 22.53  | 24.00                     | 20.08                     | 20.62 | 19.53  | 21.00                     |

| Ant 1           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 32.78                     | 32.70 | 32.44  | 33.50                     | 23.78                     | 23.70 | 23.44  | 24.50                     |
| GPRS 1 Tx slot  | 32.79                     | 32.71 | 32.45  | 33.50                     | 23.79                     | 23.71 | 23.45  | 24.50                     |
| GPRS 2 Tx slots | 31.93                     | 31.65 | 31.36  | 32.50                     | 25.93                     | 25.65 | 25.36  | 26.50                     |
| GPRS 3 Tx slots | 30.01                     | 29.62 | 29.22  | 30.50                     | 25.75                     | 25.36 | 24.96  | 26.24                     |
| GPRS 4 Tx slots | 28.60                     | 28.17 | 27.76  | 29.50                     | 25.60                     | 25.17 | 24.76  | 26.50                     |
| EDGE 1 Tx slot  | 26.86                     | 26.44 | 26.01  | 27.50                     | 17.86                     | 17.44 | 17.01  | 18.50                     |
| EDGE 2 Tx slots | 26.33                     | 26.10 | 25.60  | 27.00                     | 20.33                     | 20.10 | 19.60  | 21.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.06 | 23.92  | 25.00                     | 20.18                     | 19.80 | 19.66  | 20.74                     |
| EDGE 4 Tx slots | 22.24                     | 22.33 | 21.73  | 23.00                     | 19.24                     | 19.33 | 18.73  | 20.00                     |
| Ant 0           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 27.80                     | 28.26 | 27.88  | 28.50                     | 18.80                     | 19.26 | 18.88  | 19.50                     |
| GPRS 1 Tx slot  | 27.81                     | 28.27 | 27.90  | 28.50                     | 18.81                     | 19.27 | 18.90  | 19.50                     |
| GPRS 2 Tx slots | 24.95                     | 25.14 | 24.89  | 25.50                     | 18.95                     | 19.14 | 18.89  | 19.50                     |
| GPRS 3 Tx slots | 23.08                     | 23.42 | 23.03  | 23.70                     | 18.82                     | 19.16 | 18.77  | 19.44                     |
| GPRS 4 Tx slots | 21.74                     | 22.09 | 21.72  | 22.50                     | 18.74                     | 19.09 | 18.72  | 19.50                     |
| EDGE 1 Tx slot  | 25.74                     | 25.85 | 25.57  | 26.00                     | 16.74                     | 16.85 | 16.57  | 17.00                     |
| EDGE 2 Tx slots | 24.91                     | 24.88 | 24.52  | 25.50                     | 18.91                     | 18.88 | 18.52  | 19.50                     |
| EDGE 3 Tx slots | 22.98                     | 23.27 | 22.50  | 23.70                     | 18.72                     | 19.01 | 18.24  | 19.44                     |
| EDGE 4 Tx slots | 21.67                     | 21.56 | 20.58  | 22.50                     | 18.67                     | 18.56 | 17.58  | 19.50                     |



| Ant 0           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 33.00                     | 32.95 | 32.66  | 33.50                     | 24.00                     | 23.95 | 23.66  | 24.50                     |
| GPRS 1 Tx slot  | 33.01                     | 32.96 | 32.68  | 33.50                     | 24.01                     | 23.96 | 23.68  | 24.50                     |
| GPRS 2 Tx slots | 32.05                     | 31.81 | 31.55  | 32.50                     | 26.05                     | 25.81 | 25.55  | 26.50                     |
| GPRS 3 Tx slots | 29.98                     | 29.68 | 29.38  | 30.50                     | 25.72                     | 25.42 | 25.12  | 26.24                     |
| GPRS 4 Tx slots | 28.49                     | 28.19 | 27.90  | 29.50                     | 25.49                     | 25.19 | 24.90  | 26.50                     |
| EDGE 1 Tx slot  | 26.76                     | 26.50 | 26.18  | 27.50                     | 17.76                     | 17.50 | 17.18  | 18.50                     |
| EDGE 2 Tx slots | 26.36                     | 26.15 | 25.74  | 27.00                     | 20.36                     | 20.15 | 19.74  | 21.00                     |
| EDGE 3 Tx slots | 24.51                     | 24.25 | 24.10  | 25.00                     | 20.25                     | 19.99 | 19.84  | 20.74                     |
| EDGE 4 Tx slots | 22.36                     | 22.51 | 21.92  | 23.00                     | 19.36                     | 19.51 | 18.92  | 20.00                     |
| Ant 2           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.42                     | 30.08 | 29.96  | 30.50                     | 20.42                     | 21.08 | 20.96  | 21.50                     |
| GPRS 1 Tx slot  | 29.43                     | 30.11 | 29.99  | 30.50                     | 20.43                     | 21.11 | 20.99  | 21.50                     |
| GPRS 2 Tx slots | 29.01                     | 29.38 | 29.20  | 29.70                     | 23.01                     | 23.38 | 23.20  | 23.70                     |
| GPRS 3 Tx slots | 27.03                     | 27.74 | 27.61  | 28.00                     | 22.77                     | 23.48 | 23.35  | 23.74                     |
| GPRS 4 Tx slots | 25.99                     | 26.75 | 26.32  | 27.00                     | 22.99                     | 23.75 | 23.32  | 24.00                     |
| EDGE 1 Tx slot  | 25.82                     | 26.18 | 26.02  | 26.50                     | 16.82                     | 17.18 | 17.02  | 17.50                     |
| EDGE 2 Tx slots | 25.41                     | 25.61 | 25.39  | 26.00                     | 19.41                     | 19.61 | 19.39  | 20.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.47 | 24.22  | 25.00                     | 20.18                     | 20.21 | 19.96  | 20.74                     |
| EDGE 4 Tx slots | 23.08                     | 23.62 | 22.53  | 24.00                     | 20.08                     | 20.62 | 19.53  | 21.00                     |

| Ant 1           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 31.61                     | 31.95 | 31.55  | 32.50                     | 22.61                     | 22.95 | 22.55  | 23.50                     |
| GPRS 1 Tx slot  | 31.63                     | 31.96 | 31.55  | 32.50                     | 22.63                     | 22.96 | 22.55  | 23.50                     |
| GPRS 2 Tx slots | 28.86                     | 28.92 | 28.70  | 29.50                     | 22.86                     | 22.92 | 22.70  | 23.50                     |
| GPRS 3 Tx slots | 27.06                     | 27.02 | 26.83  | 27.70                     | 22.80                     | 22.76 | 22.57  | 23.44                     |
| GPRS 4 Tx slots | 25.85                     | 25.90 | 25.60  | 26.50                     | 22.85                     | 22.90 | 22.60  | 23.50                     |
| EDGE 1 Tx slot  | 25.62                     | 25.80 | 25.60  | 27.50                     | 16.62                     | 16.80 | 16.60  | 18.50                     |
| EDGE 2 Tx slots | 25.59                     | 25.52 | 25.39  | 27.00                     | 19.59                     | 19.52 | 19.39  | 21.00                     |
| EDGE 3 Tx slots | 23.72                     | 23.94 | 23.72  | 25.00                     | 19.46                     | 19.68 | 19.46  | 20.74                     |
| EDGE 4 Tx slots | 21.55                     | 21.90 | 21.39  | 23.00                     | 18.55                     | 18.90 | 18.39  | 20.00                     |
| Ant 0           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.39                     | 29.75 | 29.46  | 30.00                     | 20.39                     | 20.75 | 20.46  | 21.00                     |
| GPRS 1 Tx slot  | 29.40                     | 29.77 | 29.47  | 30.00                     | 20.40                     | 20.77 | 20.47  | 21.00                     |
| GPRS 2 Tx slots | 28.79                     | 29.00 | 28.76  | 29.20                     | 22.79                     | 23.00 | 22.76  | 23.20                     |
| GPRS 3 Tx slots | 27.24                     | 27.48 | 27.24  | 27.50                     | 22.98                     | 23.22 | 22.98  | 23.24                     |
| GPRS 4 Tx slots | 26.14                     | 26.20 | 25.61  | 26.50                     | 23.14                     | 23.20 | 22.61  | 23.50                     |
| EDGE 1 Tx slot  | 25.56                     | 25.65 | 25.47  | 26.00                     | 16.56                     | 16.65 | 16.47  | 17.00                     |
| EDGE 2 Tx slots | 25.25                     | 25.11 | 24.91  | 25.50                     | 19.25                     | 19.11 | 18.91  | 19.50                     |
| EDGE 3 Tx slots | 24.00                     | 23.73 | 23.58  | 24.50                     | 19.74                     | 19.47 | 19.32  | 20.24                     |
| EDGE 4 Tx slots | 22.87                     | 23.11 | 22.03  | 23.50                     | 19.87                     | 20.11 | 19.03  | 20.50                     |

| Ant 0           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 33.00                     | 32.95 | 32.66  | 33.50                     | 24.00                     | 23.95 | 23.66  | 24.50                     |
| GPRS 1 Tx slot  | 33.01                     | 32.96 | 32.68  | 33.50                     | 24.01                     | 23.96 | 23.68  | 24.50                     |
| GPRS 2 Tx slots | 32.05                     | 31.81 | 31.55  | 32.50                     | 26.05                     | 25.81 | 25.55  | 26.50                     |
| GPRS 3 Tx slots | 29.98                     | 29.68 | 29.38  | 30.50                     | 25.72                     | 25.42 | 25.12  | 26.24                     |
| GPRS 4 Tx slots | 28.49                     | 28.19 | 27.90  | 29.50                     | 25.49                     | 25.19 | 24.90  | 26.50                     |
| EDGE 1 Tx slot  | 26.76                     | 26.50 | 26.18  | 27.50                     | 17.76                     | 17.50 | 17.18  | 18.50                     |
| EDGE 2 Tx slots | 26.36                     | 26.15 | 25.74  | 27.00                     | 20.36                     | 20.15 | 19.74  | 21.00                     |
| EDGE 3 Tx slots | 24.51                     | 24.25 | 24.10  | 25.00                     | 20.25                     | 19.99 | 19.84  | 20.74                     |
| EDGE 4 Tx slots | 22.36                     | 22.51 | 21.92  | 23.00                     | 19.36                     | 19.51 | 18.92  | 20.00                     |
| Ant 2           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 29.42                     | 30.08 | 29.96  | 30.50                     | 20.42                     | 21.08 | 20.96  | 21.50                     |
| GPRS 1 Tx slot  | 29.43                     | 30.11 | 29.99  | 30.50                     | 20.43                     | 21.11 | 20.99  | 21.50                     |
| GPRS 2 Tx slots | 29.01                     | 29.38 | 29.20  | 29.70                     | 23.01                     | 23.38 | 23.20  | 23.70                     |
| GPRS 3 Tx slots | 27.03                     | 27.74 | 27.61  | 28.00                     | 22.77                     | 23.48 | 23.35  | 23.74                     |
| GPRS 4 Tx slots | 25.99                     | 26.75 | 26.32  | 27.00                     | 22.99                     | 23.75 | 23.32  | 24.00                     |
| EDGE 1 Tx slot  | 25.82                     | 26.18 | 26.02  | 26.50                     | 16.82                     | 17.18 | 17.02  | 17.50                     |
| EDGE 2 Tx slots | 25.41                     | 25.61 | 25.39  | 26.00                     | 19.41                     | 19.61 | 19.39  | 20.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.47 | 24.22  | 25.00                     | 20.18                     | 20.21 | 19.96  | 20.74                     |
| EDGE 4 Tx slots | 23.08                     | 23.62 | 22.53  | 24.00                     | 20.08                     | 20.62 | 19.53  | 21.00                     |

| Ant 1           |                           |       |        |                           |                           |       |        |                           |
|-----------------|---------------------------|-------|--------|---------------------------|---------------------------|-------|--------|---------------------------|
| GSM850          | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 128                       | 189   | 251    |                           | 128                       | 189   | 251    |                           |
| Frequency (MHz) | 824.2                     | 836.4 | 848.8  |                           | 824.2                     | 836.4 | 848.8  |                           |
| GSM 1 Tx slot   | 32.78                     | 32.70 | 32.44  | 33.50                     | 23.78                     | 23.70 | 23.44  | 24.50                     |
| GPRS 1 Tx slot  | 32.79                     | 32.71 | 32.45  | 33.50                     | 23.79                     | 23.71 | 23.45  | 24.50                     |
| GPRS 2 Tx slots | 31.93                     | 31.65 | 31.36  | 32.50                     | 25.93                     | 25.65 | 25.36  | 26.50                     |
| GPRS 3 Tx slots | 30.01                     | 29.62 | 29.22  | 30.50                     | 25.75                     | 25.36 | 24.96  | 26.24                     |
| GPRS 4 Tx slots | 28.60                     | 28.17 | 27.76  | 29.50                     | 25.60                     | 25.17 | 24.76  | 26.50                     |
| EDGE 1 Tx slot  | 26.86                     | 26.44 | 26.01  | 27.50                     | 17.86                     | 17.44 | 17.01  | 18.50                     |
| EDGE 2 Tx slots | 26.33                     | 26.10 | 25.60  | 27.00                     | 20.33                     | 20.10 | 19.60  | 21.00                     |
| EDGE 3 Tx slots | 24.44                     | 24.06 | 23.92  | 25.00                     | 20.18                     | 19.80 | 19.66  | 20.74                     |
| EDGE 4 Tx slots | 22.24                     | 22.33 | 21.73  | 23.00                     | 19.24                     | 19.33 | 18.73  | 20.00                     |
| Ant 0           |                           |       |        |                           |                           |       |        |                           |
| GSM1900         | Burst Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) | Frame-Average Power (dBm) |       |        | Tune-up<br>Limit<br>(dBm) |
| TX Channel      | 512                       | 661   | 810    |                           | 512                       | 661   | 810    |                           |
| Frequency (MHz) | 1850.2                    | 1880  | 1909.8 |                           | 1850.2                    | 1880  | 1909.8 |                           |
| GSM 1 Tx slot   | 27.80                     | 28.26 | 27.88  | 28.50                     | 18.80                     | 19.26 | 18.88  | 19.50                     |
| GPRS 1 Tx slot  | 27.81                     | 28.27 | 27.90  | 28.50                     | 18.81                     | 19.27 | 18.90  | 19.50                     |
| GPRS 2 Tx slots | 24.95                     | 25.14 | 24.89  | 25.50                     | 18.95                     | 19.14 | 18.89  | 19.50                     |
| GPRS 3 Tx slots | 23.08                     | 23.42 | 23.03  | 23.70                     | 18.82                     | 19.16 | 18.77  | 19.44                     |
| GPRS 4 Tx slots | 21.74                     | 22.09 | 21.72  | 22.50                     | 18.74                     | 19.09 | 18.72  | 19.50                     |
| EDGE 1 Tx slot  | 25.74                     | 25.85 | 25.57  | 26.00                     | 16.74                     | 16.85 | 16.57  | 17.00                     |
| EDGE 2 Tx slots | 24.91                     | 24.88 | 24.52  | 25.50                     | 18.91                     | 18.88 | 18.52  | 19.50                     |
| EDGE 3 Tx slots | 22.98                     | 23.27 | 22.50  | 23.70                     | 18.72                     | 19.01 | 18.24  | 19.44                     |
| EDGE 4 Tx slots | 21.67                     | 21.56 | 20.58  | 22.50                     | 18.67                     | 18.56 | 17.58  | 19.50                     |

| Transmit Antenna |                    | Ant 2    |       |        |                           | Ant 2    |        |        |                           | Ant 0   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.75    | 24.95 | 25.07  | 25.70                     | 24.77    | 24.92  | 24.95  | 25.70                     | 24.33   | 24.36 | 24.32 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.76    | 24.95 | 25.08  | 25.70                     | 24.80    | 24.93  | 24.96  | 25.70                     | 24.33   | 24.37 | 24.33 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 24.19    | 23.99 | 24.03  | 24.70                     | 23.85    | 23.91  | 23.95  | 24.70                     | 23.38   | 23.37 | 23.33 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 24.16    | 24.00 | 24.06  | 24.70                     | 23.85    | 23.91  | 23.93  | 24.70                     | 23.07   | 23.39 | 23.39 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 23.64    | 23.48 | 23.55  | 24.20                     | 23.38    | 23.38  | 23.46  | 24.20                     | 22.84   | 22.91 | 22.80 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 23.70    | 23.52 | 23.54  | 24.20                     | 23.35    | 23.39  | 23.46  | 24.20                     | 22.79   | 22.84 | 22.88 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 24.14    | 23.95 | 23.94  | 24.70                     | 23.79    | 23.89  | 23.92  | 24.70                     | 23.35   | 23.36 | 23.26 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 24.14    | 23.94 | 23.96  | 24.70                     | 23.80    | 23.82  | 23.92  | 24.70                     | 22.99   | 23.37 | 23.36 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 23.58    | 23.44 | 23.50  | 24.20                     | 23.28    | 23.33  | 23.38  | 24.20                     | 22.81   | 22.86 | 22.75 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 23.67    | 23.45 | 23.47  | 24.20                     | 23.29    | 23.29  | 23.37  | 24.20                     | 22.79   | 22.74 | 22.79 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 23.80    | 23.98 | 24.01  | 24.70                     | 23.97    | 23.95  | 24.03  | 24.70                     | 23.32   | 23.35 | 23.31 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 21.81    | 21.61 | 21.69  | 22.70                     | 21.45    | 21.48  | 21.61  | 22.70                     | 21.29   | 21.29 | 21.28 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 22.76    | 22.58 | 22.64  | 23.70                     | 22.50    | 22.58  | 22.63  | 23.70                     | 22.22   | 22.37 | 22.23 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 21.82    | 21.59 | 21.66  | 22.70                     | 21.52    | 21.50  | 21.60  | 22.70                     | 21.35   | 21.35 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 23.80    | 23.55 | 23.65  | 24.70                     | 23.50    | 24.00  | 23.60  | 24.70                     | 23.30   | 23.40 | 23.22 | 24.00                     |

| Transmit Antenna |                    | Ant 0    |       |        |                           | Ant 0    |        |        |                           | Ant 1   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.83    | 24.97 | 25.01  | 25.70                     | 24.59    | 24.59  | 24.66  | 25.70                     | 24.33   | 24.33 | 24.31 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.84    | 24.97 | 25.02  | 25.70                     | 24.60    | 24.59  | 24.67  | 25.70                     | 24.34   | 24.36 | 24.35 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 24.04    | 24.14 | 24.23  | 24.70                     | 23.73    | 23.76  | 23.82  | 24.70                     | 23.35   | 23.39 | 23.37 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 24.04    | 24.12 | 24.22  | 24.70                     | 23.76    | 23.74  | 23.83  | 24.70                     | 23.37   | 23.41 | 23.38 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 23.51    | 23.61 | 23.68  | 24.20                     | 23.25    | 23.22  | 23.35  | 24.20                     | 22.86   | 22.91 | 22.85 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 23.54    | 23.61 | 23.71  | 24.20                     | 23.21    | 23.28  | 23.35  | 24.20                     | 22.84   | 22.92 | 22.86 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 23.99    | 24.06 | 24.21  | 24.70                     | 23.72    | 23.67  | 23.81  | 24.70                     | 23.32   | 23.39 | 23.37 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 23.95    | 24.02 | 24.22  | 24.70                     | 23.68    | 23.71  | 23.78  | 24.70                     | 23.30   | 23.31 | 23.35 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 23.41    | 23.55 | 23.60  | 24.20                     | 23.23    | 23.17  | 23.28  | 24.20                     | 22.78   | 22.81 | 22.78 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 23.44    | 23.57 | 23.63  | 24.20                     | 23.16    | 23.19  | 23.35  | 24.20                     | 22.84   | 22.88 | 22.84 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 23.70    | 24.09 | 24.17  | 24.70                     | 23.74    | 23.79  | 23.86  | 24.70                     | 23.34   | 23.35 | 23.27 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 21.73    | 21.77 | 21.89  | 22.70                     | 21.44    | 21.44  | 21.54  | 22.70                     | 21.32   | 21.36 | 21.27 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 22.77    | 22.83 | 22.88  | 23.70                     | 22.53    | 22.47  | 22.46  | 23.70                     | 22.34   | 22.36 | 22.33 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 21.73    | 21.79 | 21.91  | 22.70                     | 21.50    | 21.50  | 21.60  | 22.70                     | 21.34   | 21.36 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 23.80    | 23.80 | 23.90  | 24.70                     | 23.50    | 23.50  | 23.60  | 24.70                     | 23.30   | 23.40 | 23.30 | 24.00                     |

| Transmit Antenna |                    | Ant 2    |       |        |                           | Ant 2    |        |        |                           | Ant 0   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.75    | 24.95 | 25.07  | 25.70                     | 24.77    | 24.92  | 24.95  | 25.70                     | 24.33   | 24.36 | 24.32 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.76    | 24.95 | 25.08  | 25.70                     | 24.80    | 24.93  | 24.96  | 25.70                     | 24.33   | 24.37 | 24.33 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 24.19    | 23.99 | 24.03  | 24.70                     | 23.85    | 23.91  | 23.95  | 24.70                     | 23.38   | 23.37 | 23.33 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 24.16    | 24.00 | 24.06  | 24.70                     | 23.85    | 23.91  | 23.93  | 24.70                     | 23.07   | 23.39 | 23.39 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 23.64    | 23.48 | 23.55  | 24.20                     | 23.38    | 23.38  | 23.46  | 24.20                     | 22.84   | 22.91 | 22.80 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 23.70    | 23.52 | 23.54  | 24.20                     | 23.35    | 23.39  | 23.46  | 24.20                     | 22.79   | 22.84 | 22.88 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 24.14    | 23.95 | 23.94  | 24.70                     | 23.79    | 23.89  | 23.92  | 24.70                     | 23.35   | 23.36 | 23.26 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 24.14    | 23.94 | 23.96  | 24.70                     | 23.80    | 23.82  | 23.92  | 24.70                     | 22.99   | 23.37 | 23.36 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 23.58    | 23.44 | 23.50  | 24.20                     | 23.28    | 23.33  | 23.38  | 24.20                     | 22.81   | 22.86 | 22.75 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 23.67    | 23.45 | 23.47  | 24.20                     | 23.29    | 23.29  | 23.37  | 24.20                     | 22.79   | 22.74 | 22.79 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 23.80    | 23.98 | 24.01  | 24.70                     | 23.97    | 23.95  | 24.03  | 24.70                     | 23.32   | 23.35 | 23.31 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 21.81    | 21.61 | 21.69  | 22.70                     | 21.45    | 21.48  | 21.61  | 22.70                     | 21.29   | 21.29 | 21.28 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 22.76    | 22.58 | 22.64  | 23.70                     | 22.50    | 22.58  | 22.63  | 23.70                     | 22.22   | 22.37 | 22.23 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 21.82    | 21.59 | 21.66  | 22.70                     | 21.52    | 21.50  | 21.60  | 22.70                     | 21.35   | 21.35 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 23.80    | 23.55 | 23.65  | 24.70                     | 23.50    | 24.00  | 23.60  | 24.70                     | 23.30   | 23.40 | 23.22 | 24.00                     |

| Transmit Antenna |                    | Ant 0    |       |        |                           | Ant 0    |        |        |                           | Ant 1   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.83    | 24.97 | 25.01  | 25.70                     | 24.59    | 24.59  | 24.66  | 25.70                     | 23.02   | 23.01 | 23.02 | 24.40                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.84    | 24.97 | 25.02  | 25.70                     | 24.60    | 24.59  | 24.67  | 25.70                     | 23.05   | 23.06 | 23.04 | 24.40                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 24.04    | 24.14 | 24.23  | 24.70                     | 23.73    | 23.76  | 23.82  | 24.70                     | 22.03   | 22.07 | 22.05 | 23.40                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 24.04    | 24.12 | 24.22  | 24.70                     | 23.76    | 23.74  | 23.83  | 24.70                     | 22.06   | 22.05 | 22.03 | 23.40                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 23.51    | 23.61 | 23.68  | 24.20                     | 23.25    | 23.22  | 23.35  | 24.20                     | 21.56   | 21.58 | 21.51 | 22.90                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 23.54    | 23.61 | 23.71  | 24.20                     | 23.21    | 23.28  | 23.35  | 24.20                     | 21.51   | 21.56 | 21.56 | 22.90                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 23.99    | 24.06 | 24.21  | 24.70                     | 23.72    | 23.67  | 23.81  | 24.70                     | 21.95   | 22.07 | 21.99 | 23.40                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 23.95    | 24.02 | 24.22  | 24.70                     | 23.68    | 23.71  | 23.78  | 24.70                     | 22.01   | 21.95 | 22.02 | 23.40                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 23.41    | 23.55 | 23.60  | 24.20                     | 23.23    | 23.17  | 23.28  | 24.20                     | 21.47   | 21.56 | 21.47 | 22.90                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 23.44    | 23.57 | 23.63  | 24.20                     | 23.16    | 23.19  | 23.35  | 24.20                     | 21.46   | 21.46 | 21.51 | 22.90                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 23.70    | 24.09 | 24.17  | 24.70                     | 23.74    | 23.79  | 23.86  | 24.70                     | 22.06   | 22.09 | 22.04 | 23.40                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 21.73    | 21.77 | 21.89  | 22.70                     | 21.44    | 21.44  | 21.54  | 22.70                     | 20.08   | 20.06 | 19.96 | 21.40                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 22.77    | 22.83 | 22.88  | 23.70                     | 22.53    | 22.47  | 22.46  | 23.70                     | 21.04   | 21.09 | 21.07 | 22.40                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 21.73    | 21.79 | 21.91  | 22.70                     | 21.50    | 21.50  | 21.60  | 22.70                     | 20.07   | 20.08 | 20.01 | 21.40                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 23.80    | 23.80 | 23.90  | 24.70                     | 23.50    | 23.50  | 23.60  | 24.70                     | 22.00   | 22.10 | 22.10 | 23.40                     |



| Transmit Antenna |                    | Ant 2    |       |        |                           | Ant 2    |        |        |                           | Ant 0   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.02    | 24.20 | 24.20  | 25.50                     | 24.38    | 24.41  | 24.44  | 25.70                     | 24.33   | 24.36 | 24.32 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.02    | 24.21 | 24.22  | 25.50                     | 24.39    | 24.44  | 24.45  | 25.70                     | 24.33   | 24.37 | 24.33 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 23.38    | 23.20 | 23.21  | 24.50                     | 23.40    | 23.40  | 23.42  | 24.70                     | 23.38   | 23.37 | 23.33 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 23.42    | 23.15 | 23.20  | 24.50                     | 23.36    | 23.43  | 23.46  | 24.70                     | 23.07   | 23.39 | 23.39 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 22.89    | 22.68 | 22.73  | 24.00                     | 22.88    | 22.89  | 22.93  | 24.20                     | 22.84   | 22.91 | 22.80 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 22.90    | 22.71 | 22.73  | 24.00                     | 22.85    | 22.92  | 22.92  | 24.20                     | 22.79   | 22.84 | 22.88 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 23.34    | 23.20 | 23.16  | 24.50                     | 23.34    | 23.32  | 23.39  | 24.70                     | 23.35   | 23.36 | 23.26 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 23.33    | 23.05 | 23.10  | 24.50                     | 23.29    | 23.37  | 23.37  | 24.70                     | 22.99   | 23.37 | 23.36 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 22.79    | 22.60 | 22.68  | 24.00                     | 22.81    | 22.86  | 22.87  | 24.20                     | 22.81   | 22.86 | 22.75 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 22.89    | 22.66 | 22.65  | 24.00                     | 22.78    | 22.87  | 22.88  | 24.20                     | 22.79   | 22.74 | 22.79 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 22.88    | 23.14 | 23.19  | 24.50                     | 23.35    | 23.38  | 23.41  | 24.70                     | 23.32   | 23.35 | 23.31 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 20.89    | 20.69 | 20.68  | 22.50                     | 20.98    | 20.90  | 21.01  | 22.70                     | 21.29   | 21.29 | 21.28 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 21.88    | 21.69 | 21.74  | 23.50                     | 21.94    | 21.98  | 22.08  | 23.70                     | 22.22   | 22.37 | 22.23 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 20.90    | 20.71 | 20.77  | 22.50                     | 20.97    | 20.99  | 21.04  | 22.70                     | 21.35   | 21.35 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 22.90    | 22.70 | 22.70  | 24.50                     | 23.00    | 23.00  | 23.00  | 24.70                     | 23.30   | 23.40 | 23.22 | 24.00                     |

| Transmit Antenna |                    | Ant 0    |       |        |                           | Ant 0    |        |        |                           | Ant 1   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 19.75    | 19.77 | 19.77  | 21.00                     | 19.80    | 19.81  | 19.84  | 21.40                     | 24.33   | 24.33 | 24.31 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 19.76    | 19.78 | 19.78  | 21.00                     | 19.82    | 19.84  | 19.85  | 21.40                     | 24.34   | 24.36 | 24.35 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 18.71    | 18.81 | 18.80  | 20.00                     | 18.84    | 18.80  | 18.83  | 20.40                     | 23.35   | 23.39 | 23.37 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 18.74    | 18.81 | 18.82  | 20.00                     | 18.83    | 18.82  | 18.87  | 20.40                     | 23.37   | 23.41 | 23.38 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 18.33    | 18.30 | 18.34  | 19.50                     | 18.30    | 18.31  | 18.38  | 19.90                     | 22.86   | 22.91 | 22.85 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 18.23    | 18.31 | 18.31  | 19.50                     | 18.30    | 18.34  | 18.35  | 19.90                     | 22.84   | 22.92 | 22.86 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 18.67    | 18.77 | 18.78  | 20.00                     | 18.81    | 18.77  | 18.79  | 20.40                     | 23.32   | 23.39 | 23.37 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 18.68    | 18.71 | 18.82  | 20.00                     | 18.80    | 18.78  | 18.82  | 20.40                     | 23.30   | 23.31 | 23.35 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 18.26    | 18.20 | 18.27  | 19.50                     | 18.29    | 18.27  | 18.30  | 19.90                     | 22.78   | 22.81 | 22.78 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 18.21    | 18.27 | 18.31  | 19.50                     | 18.20    | 18.27  | 18.32  | 19.90                     | 22.84   | 22.88 | 22.84 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 18.75    | 18.80 | 18.86  | 20.00                     | 18.82    | 18.77  | 18.88  | 20.40                     | 23.34   | 23.35 | 23.27 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 16.70    | 16.77 | 16.84  | 18.00                     | 16.85    | 16.78  | 16.94  | 18.40                     | 21.32   | 21.36 | 21.27 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 17.78    | 17.84 | 17.84  | 19.00                     | 17.82    | 17.82  | 17.88  | 19.40                     | 22.34   | 22.36 | 22.33 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 16.75    | 16.81 | 16.80  | 18.00                     | 16.83    | 16.85  | 16.85  | 18.40                     | 21.34   | 21.36 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 18.80    | 18.80 | 18.80  | 20.00                     | 18.80    | 18.80  | 18.90  | 20.40                     | 23.30   | 23.40 | 23.30 | 24.00                     |

| Transmit Antenna |                    | Ant 2    |       |        |                           | Ant 2    |        |        |                           | Ant 0   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.02    | 24.20 | 24.20  | 24.70                     | 24.38    | 24.41  | 24.44  | 25.20                     | 24.33   | 24.36 | 24.32 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.02    | 24.21 | 24.22  | 24.70                     | 24.39    | 24.44  | 24.45  | 25.20                     | 24.33   | 24.37 | 24.33 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 23.38    | 23.20 | 23.21  | 23.70                     | 23.40    | 23.40  | 23.42  | 24.20                     | 23.38   | 23.37 | 23.33 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 23.42    | 23.15 | 23.20  | 23.70                     | 23.36    | 23.43  | 23.46  | 24.20                     | 23.07   | 23.39 | 23.39 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 22.89    | 22.68 | 22.73  | 23.20                     | 22.88    | 22.89  | 22.93  | 23.70                     | 22.84   | 22.91 | 22.80 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 22.90    | 22.71 | 22.73  | 23.20                     | 22.85    | 22.92  | 22.92  | 23.70                     | 22.79   | 22.84 | 22.88 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 23.34    | 23.20 | 23.16  | 23.70                     | 23.34    | 23.32  | 23.39  | 24.20                     | 23.35   | 23.36 | 23.26 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 23.33    | 23.05 | 23.10  | 23.70                     | 23.29    | 23.37  | 23.37  | 24.20                     | 22.99   | 23.37 | 23.36 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 22.79    | 22.60 | 22.68  | 23.20                     | 22.81    | 22.86  | 22.87  | 23.70                     | 22.81   | 22.86 | 22.75 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 22.89    | 22.66 | 22.65  | 23.20                     | 22.78    | 22.87  | 22.88  | 23.70                     | 22.79   | 22.74 | 22.79 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 22.88    | 23.14 | 23.19  | 23.70                     | 23.35    | 23.38  | 23.41  | 24.20                     | 23.32   | 23.35 | 23.31 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 20.89    | 20.69 | 20.68  | 21.70                     | 20.98    | 20.90  | 21.01  | 22.20                     | 21.29   | 21.29 | 21.28 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 21.88    | 21.69 | 21.74  | 22.70                     | 21.94    | 21.98  | 22.08  | 23.20                     | 22.22   | 22.37 | 22.23 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 20.90    | 20.71 | 20.77  | 21.70                     | 20.97    | 20.99  | 21.04  | 22.20                     | 21.35   | 21.35 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 22.90    | 22.70 | 22.70  | 23.70                     | 23.00    | 23.00  | 23.00  | 24.20                     | 23.30   | 23.40 | 23.22 | 24.00                     |

| Transmit Antenna |                    | Ant 0    |       |        |                           | Ant 0    |        |        |                           | Ant 1   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 19.75    | 19.77 | 19.77  | 20.20                     | 19.80    | 19.81  | 19.84  | 20.60                     | 24.33   | 24.33 | 24.31 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 19.76    | 19.78 | 19.78  | 20.20                     | 19.82    | 19.84  | 19.85  | 20.60                     | 24.34   | 24.36 | 24.35 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 18.71    | 18.81 | 18.80  | 19.20                     | 18.84    | 18.80  | 18.83  | 19.60                     | 23.35   | 23.39 | 23.37 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 18.74    | 18.81 | 18.82  | 19.20                     | 18.83    | 18.82  | 18.87  | 19.60                     | 23.37   | 23.41 | 23.38 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 18.33    | 18.30 | 18.34  | 18.70                     | 18.30    | 18.31  | 18.38  | 19.10                     | 22.86   | 22.91 | 22.85 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 18.23    | 18.31 | 18.31  | 18.70                     | 18.30    | 18.34  | 18.35  | 19.10                     | 22.84   | 22.92 | 22.86 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 18.67    | 18.77 | 18.78  | 19.20                     | 18.81    | 18.77  | 18.79  | 19.60                     | 23.32   | 23.39 | 23.37 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 18.68    | 18.71 | 18.82  | 19.20                     | 18.80    | 18.78  | 18.82  | 19.60                     | 23.30   | 23.31 | 23.35 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 18.26    | 18.20 | 18.27  | 18.70                     | 18.29    | 18.27  | 18.30  | 19.10                     | 22.78   | 22.81 | 22.78 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 18.21    | 18.27 | 18.31  | 18.70                     | 18.20    | 18.27  | 18.32  | 19.10                     | 22.84   | 22.88 | 22.84 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 18.75    | 18.80 | 18.86  | 19.20                     | 18.82    | 18.77  | 18.88  | 19.60                     | 23.34   | 23.35 | 23.27 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 16.70    | 16.77 | 16.84  | 17.20                     | 16.85    | 16.78  | 16.94  | 17.60                     | 21.32   | 21.36 | 21.27 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 17.78    | 17.84 | 17.84  | 18.20                     | 17.82    | 17.82  | 17.88  | 18.60                     | 22.34   | 22.36 | 22.33 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 16.75    | 16.81 | 16.80  | 17.20                     | 16.83    | 16.85  | 16.85  | 17.60                     | 21.34   | 21.36 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 18.80    | 18.80 | 18.80  | 19.20                     | 18.80    | 18.80  | 18.90  | 19.60                     | 23.30   | 23.40 | 23.30 | 24.00                     |

| Transmit Antenna |                    | Ant 2    |       |        |                           | Ant 2    |        |        |                           | Ant 0   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.75    | 24.95 | 25.07  | 25.70                     | 24.77    | 24.92  | 24.95  | 25.70                     | 24.33   | 24.36 | 24.32 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.76    | 24.95 | 25.08  | 25.70                     | 24.80    | 24.93  | 24.96  | 25.70                     | 24.33   | 24.37 | 24.33 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 24.19    | 23.99 | 24.03  | 24.70                     | 23.85    | 23.91  | 23.95  | 24.70                     | 23.38   | 23.37 | 23.33 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 24.16    | 24.00 | 24.06  | 24.70                     | 23.85    | 23.91  | 23.93  | 24.70                     | 23.07   | 23.39 | 23.39 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 23.64    | 23.48 | 23.55  | 24.20                     | 23.38    | 23.38  | 23.46  | 24.20                     | 22.84   | 22.91 | 22.80 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 23.70    | 23.52 | 23.54  | 24.20                     | 23.35    | 23.39  | 23.46  | 24.20                     | 22.79   | 22.84 | 22.88 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 24.14    | 23.95 | 23.94  | 24.70                     | 23.79    | 23.89  | 23.92  | 24.70                     | 23.35   | 23.36 | 23.26 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 24.14    | 23.94 | 23.96  | 24.70                     | 23.80    | 23.82  | 23.92  | 24.70                     | 22.99   | 23.37 | 23.36 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 23.58    | 23.44 | 23.50  | 24.20                     | 23.28    | 23.33  | 23.38  | 24.20                     | 22.81   | 22.86 | 22.75 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 23.67    | 23.45 | 23.47  | 24.20                     | 23.29    | 23.29  | 23.37  | 24.20                     | 22.79   | 22.74 | 22.79 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 23.80    | 23.98 | 24.01  | 24.70                     | 23.97    | 23.95  | 24.03  | 24.70                     | 23.32   | 23.35 | 23.31 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 21.81    | 21.61 | 21.69  | 22.70                     | 21.45    | 21.48  | 21.61  | 22.70                     | 21.29   | 21.29 | 21.28 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 22.76    | 22.58 | 22.64  | 23.70                     | 22.50    | 22.58  | 22.63  | 23.70                     | 22.22   | 22.37 | 22.23 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 21.82    | 21.59 | 21.66  | 22.70                     | 21.52    | 21.50  | 21.60  | 22.70                     | 21.35   | 21.35 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 23.80    | 23.55 | 23.65  | 24.70                     | 23.50    | 24.00  | 23.60  | 24.70                     | 23.30   | 23.40 | 23.22 | 24.00                     |

| Transmit Antenna |                    | Ant 0    |       |        |                           | Ant 0    |        |        |                           | Ant 1   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.83    | 24.97 | 25.01  | 25.70                     | 24.59    | 24.59  | 24.66  | 25.70                     | 23.02   | 23.01 | 23.02 | 23.60                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.84    | 24.97 | 25.02  | 25.70                     | 24.60    | 24.59  | 24.67  | 25.70                     | 23.05   | 23.06 | 23.04 | 23.60                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 24.04    | 24.14 | 24.23  | 24.70                     | 23.73    | 23.76  | 23.82  | 24.70                     | 22.03   | 22.07 | 22.05 | 22.60                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 24.04    | 24.12 | 24.22  | 24.70                     | 23.76    | 23.74  | 23.83  | 24.70                     | 22.06   | 22.05 | 22.03 | 22.60                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 23.51    | 23.61 | 23.68  | 24.20                     | 23.25    | 23.22  | 23.35  | 24.20                     | 21.56   | 21.58 | 21.51 | 22.10                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 23.54    | 23.61 | 23.71  | 24.20                     | 23.21    | 23.28  | 23.35  | 24.20                     | 21.51   | 21.56 | 21.56 | 22.10                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 23.99    | 24.06 | 24.21  | 24.70                     | 23.72    | 23.67  | 23.81  | 24.70                     | 21.95   | 22.07 | 21.99 | 22.60                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 23.95    | 24.02 | 24.22  | 24.70                     | 23.68    | 23.71  | 23.78  | 24.70                     | 22.01   | 21.95 | 22.02 | 22.60                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 23.41    | 23.55 | 23.60  | 24.20                     | 23.23    | 23.17  | 23.28  | 24.20                     | 21.47   | 21.56 | 21.47 | 22.10                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 23.44    | 23.57 | 23.63  | 24.20                     | 23.16    | 23.19  | 23.35  | 24.20                     | 21.46   | 21.46 | 21.51 | 22.10                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 23.70    | 24.09 | 24.17  | 24.70                     | 23.74    | 23.79  | 23.86  | 24.70                     | 22.06   | 22.09 | 22.04 | 22.60                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 21.73    | 21.77 | 21.89  | 22.70                     | 21.44    | 21.44  | 21.54  | 22.70                     | 20.08   | 20.06 | 19.96 | 20.60                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 22.77    | 22.83 | 22.88  | 23.70                     | 22.53    | 22.47  | 22.46  | 23.70                     | 21.04   | 21.09 | 21.07 | 21.60                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 21.73    | 21.79 | 21.91  | 22.70                     | 21.50    | 21.50  | 21.60  | 22.70                     | 20.07   | 20.08 | 20.01 | 20.60                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 23.80    | 23.80 | 23.90  | 24.70                     | 23.50    | 23.50  | 23.60  | 24.70                     | 22.00   | 22.10 | 22.10 | 22.60                     |

| Transmit Antenna |                    | Ant 2    |       |        |                           | Ant 2    |        |        |                           | Ant 0   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 24.02    | 24.20 | 24.20  | 24.70                     | 24.38    | 24.41  | 24.44  | 25.20                     | 24.33   | 24.36 | 24.32 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 24.02    | 24.21 | 24.22  | 24.70                     | 24.39    | 24.44  | 24.45  | 25.20                     | 24.33   | 24.37 | 24.33 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 23.38    | 23.20 | 23.21  | 23.70                     | 23.40    | 23.40  | 23.42  | 24.20                     | 23.38   | 23.37 | 23.33 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 23.42    | 23.15 | 23.20  | 23.70                     | 23.36    | 23.43  | 23.46  | 24.20                     | 23.07   | 23.39 | 23.39 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 22.89    | 22.68 | 22.73  | 23.20                     | 22.88    | 22.89  | 22.93  | 23.70                     | 22.84   | 22.91 | 22.80 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 22.90    | 22.71 | 22.73  | 23.20                     | 22.85    | 22.92  | 22.92  | 23.70                     | 22.79   | 22.84 | 22.88 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 23.34    | 23.20 | 23.16  | 23.70                     | 23.34    | 23.32  | 23.39  | 24.20                     | 23.35   | 23.36 | 23.26 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 23.33    | 23.05 | 23.10  | 23.70                     | 23.29    | 23.37  | 23.37  | 24.20                     | 22.99   | 23.37 | 23.36 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 22.79    | 22.60 | 22.68  | 23.20                     | 22.81    | 22.86  | 22.87  | 23.70                     | 22.81   | 22.86 | 22.75 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 22.89    | 22.66 | 22.65  | 23.20                     | 22.78    | 22.87  | 22.88  | 23.70                     | 22.79   | 22.74 | 22.79 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 22.88    | 23.14 | 23.19  | 23.70                     | 23.35    | 23.38  | 23.41  | 24.20                     | 23.32   | 23.35 | 23.31 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 20.89    | 20.69 | 20.68  | 21.70                     | 20.98    | 20.90  | 21.01  | 22.20                     | 21.29   | 21.29 | 21.28 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 21.88    | 21.69 | 21.74  | 22.70                     | 21.94    | 21.98  | 22.08  | 23.20                     | 22.22   | 22.37 | 22.23 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 20.90    | 20.71 | 20.77  | 21.70                     | 20.97    | 20.99  | 21.04  | 22.20                     | 21.35   | 21.35 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 22.90    | 22.70 | 22.70  | 23.70                     | 23.00    | 23.00  | 23.00  | 24.20                     | 23.30   | 23.40 | 23.22 | 24.00                     |

| Transmit Antenna |                    | Ant 0    |       |        |                           | Ant 0    |        |        |                           | Ant 1   |       |       |                           |
|------------------|--------------------|----------|-------|--------|---------------------------|----------|--------|--------|---------------------------|---------|-------|-------|---------------------------|
| Band             |                    | WCDMA II |       |        | Tune-up<br>Limit<br>(dBm) | WCDMA IV |        |        | Tune-up<br>Limit<br>(dBm) | WCDMA V |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       |                    | 9262     | 9400  | 9538   |                           | 1312     | 1413   | 1513   |                           | 4132    | 4182  | 4233  |                           |
| Rx Channel       |                    | 9662     | 9800  | 9938   |                           | 1537     | 1638   | 1738   |                           | 4357    | 4407  | 4458  |                           |
| Frequency (MHz)  |                    | 1852.4   | 1880  | 1907.6 |                           | 1712.4   | 1732.6 | 1752.6 |                           | 826.4   | 836.4 | 846.6 |                           |
| 3GPP Rel 99      | AMR 12.2Kbps       | 19.75    | 19.77 | 19.77  | 20.20                     | 19.80    | 19.81  | 19.84  | 20.60                     | 24.33   | 24.33 | 24.31 | 25.00                     |
| 3GPP Rel 99      | RMC 12.2Kbps       | 19.76    | 19.78 | 19.78  | 20.20                     | 19.82    | 19.84  | 19.85  | 20.60                     | 24.34   | 24.36 | 24.35 | 25.00                     |
| 3GPP Rel 6       | HSDPA Subtest-1    | 18.71    | 18.81 | 18.80  | 19.20                     | 18.84    | 18.80  | 18.83  | 19.60                     | 23.35   | 23.39 | 23.37 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-2    | 18.74    | 18.81 | 18.82  | 19.20                     | 18.83    | 18.82  | 18.87  | 19.60                     | 23.37   | 23.41 | 23.38 | 24.00                     |
| 3GPP Rel 6       | HSDPA Subtest-3    | 18.33    | 18.30 | 18.34  | 18.70                     | 18.30    | 18.31  | 18.38  | 19.10                     | 22.86   | 22.91 | 22.85 | 23.50                     |
| 3GPP Rel 6       | HSDPA Subtest-4    | 18.23    | 18.31 | 18.31  | 18.70                     | 18.30    | 18.34  | 18.35  | 19.10                     | 22.84   | 22.92 | 22.86 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-1 | 18.67    | 18.77 | 18.78  | 19.20                     | 18.81    | 18.77  | 18.79  | 19.60                     | 23.32   | 23.39 | 23.37 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-2 | 18.68    | 18.71 | 18.82  | 19.20                     | 18.80    | 18.78  | 18.82  | 19.60                     | 23.30   | 23.31 | 23.35 | 24.00                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-3 | 18.26    | 18.20 | 18.27  | 18.70                     | 18.29    | 18.27  | 18.30  | 19.10                     | 22.78   | 22.81 | 22.78 | 23.50                     |
| 3GPP Rel 8       | DC-HSDPA Subtest-4 | 18.21    | 18.27 | 18.31  | 18.70                     | 18.20    | 18.27  | 18.32  | 19.10                     | 22.84   | 22.88 | 22.84 | 23.50                     |
| 3GPP Rel 6       | HSUPA Subtest-1    | 18.75    | 18.80 | 18.86  | 19.20                     | 18.82    | 18.77  | 18.88  | 19.60                     | 23.34   | 23.35 | 23.27 | 24.00                     |
| 3GPP Rel 6       | HSUPA Subtest-2    | 16.70    | 16.77 | 16.84  | 17.20                     | 16.85    | 16.78  | 16.94  | 17.60                     | 21.32   | 21.36 | 21.27 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-3    | 17.78    | 17.84 | 17.84  | 18.20                     | 17.82    | 17.82  | 17.88  | 18.60                     | 22.34   | 22.36 | 22.33 | 23.00                     |
| 3GPP Rel 6       | HSUPA Subtest-4    | 16.75    | 16.81 | 16.80  | 17.20                     | 16.83    | 16.85  | 16.85  | 17.60                     | 21.34   | 21.36 | 21.32 | 22.00                     |
| 3GPP Rel 6       | HSUPA Subtest-5    | 18.80    | 18.80 | 18.80  | 19.20                     | 18.80    | 18.80  | 18.90  | 19.60                     | 23.30   | 23.40 | 23.30 | 24.00                     |





| Transmit Antenna | Ant 0    |        |        |                           | Ant 2    |       |         |                           | Ant 0     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.41  | 23.62  | 25.50                     | 24.61    | 24.72 | 24.80   | 25.50                     | 24.47     | 24.41 | 24.46 | 25.50                     |
| RC3 SO55         | 24.41    | 24.48  | 23.64  | 25.50                     | 24.66    | 24.76 | 24.90   | 25.50                     | 24.48     | 24.49 | 24.48 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.39    | 24.42  | 23.61  | 25.50                     | 24.65    | 24.71 | 24.77   | 25.50                     | 24.46     | 24.41 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.36    | 24.41  | 23.65  | 25.50                     | 24.65    | 24.73 | 24.86   | 25.50                     | 24.46     | 24.46 | 24.43 | 25.50                     |
| RTAP 153.6Kbps   | 24.34    | 24.50  | 23.62  | 25.50                     | 24.63    | 24.72 | 24.82   | 25.50                     | 24.41     | 24.43 | 24.42 | 25.50                     |
| RETAP 4096Bits   | 24.40    | 24.44  | 23.66  | 25.50                     | 24.64    | 24.73 | 24.83   | 25.50                     | 24.44     | 24.42 | 24.42 | 25.50                     |

| Transmit Antenna | Ant 1    |        |        |                           | Ant 0    |       |         |                           | Ant 1     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.42  | 24.06  | 25.50                     | 24.55    | 24.63 | 24.69   | 25.50                     | 24.41     | 24.47 | 24.46 | 25.50                     |
| RC3 SO55         | 24.42    | 24.47  | 24.04  | 25.50                     | 24.58    | 24.64 | 24.70   | 25.50                     | 24.47     | 24.48 | 24.47 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.40    | 24.46  | 24.00  | 25.50                     | 24.52    | 24.60 | 24.66   | 25.50                     | 24.44     | 24.44 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.39    | 24.45  | 24.03  | 25.50                     | 24.55    | 24.59 | 24.62   | 25.50                     | 24.47     | 24.46 | 24.47 | 25.50                     |
| RTAP 153.6Kbps   | 24.44    | 24.45  | 24.02  | 25.50                     | 24.53    | 24.65 | 24.69   | 25.50                     | 24.43     | 24.46 | 24.46 | 25.50                     |
| RETAP 4096Bits   | 24.41    | 24.40  | 24.03  | 25.50                     | 24.49    | 24.61 | 24.63   | 25.50                     | 24.44     | 24.43 | 24.41 | 25.50                     |

| Transmit Antenna | Ant 0    |        |        |                           | Ant 2    |       |         |                           | Ant 0     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.41  | 23.62  | 25.50                     | 24.61    | 24.72 | 24.80   | 25.50                     | 24.47     | 24.41 | 24.46 | 25.50                     |
| RC3 SO55         | 24.41    | 24.48  | 23.64  | 25.50                     | 24.66    | 24.76 | 24.90   | 25.50                     | 24.48     | 24.49 | 24.48 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.39    | 24.42  | 23.61  | 25.50                     | 24.65    | 24.71 | 24.77   | 25.50                     | 24.46     | 24.41 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.36    | 24.41  | 23.65  | 25.50                     | 24.65    | 24.73 | 24.86   | 25.50                     | 24.46     | 24.46 | 24.43 | 25.50                     |
| RTAP 153.6Kbps   | 24.34    | 24.50  | 23.62  | 25.50                     | 24.63    | 24.72 | 24.82   | 25.50                     | 24.41     | 24.43 | 24.42 | 25.50                     |
| RETAP 4096Bits   | 24.40    | 24.44  | 23.66  | 25.50                     | 24.64    | 24.73 | 24.83   | 25.50                     | 24.44     | 24.42 | 24.42 | 25.50                     |

| Transmit Antenna | Ant 1    |        |        |                           | Ant 0    |       |         |                           | Ant 1     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 21.20    | 21.31  | 21.37  | 23.20                     | 24.55    | 24.63 | 24.69   | 25.50                     | 23.54     | 23.70 | 23.50 | 25.40                     |
| RC3 SO55         | 21.22    | 21.25  | 21.30  | 23.20                     | 24.58    | 24.64 | 24.70   | 25.50                     | 23.60     | 23.75 | 23.58 | 25.40                     |
| RC3 SO32 (F+SCH) | 21.21    | 21.31  | 21.39  | 23.20                     | 24.52    | 24.60 | 24.66   | 25.50                     | 23.57     | 23.65 | 23.49 | 25.40                     |
| RC3 SO32 (+SCH)  | 21.27    | 21.28  | 21.34  | 23.20                     | 24.55    | 24.59 | 24.62   | 25.50                     | 23.60     | 23.66 | 23.51 | 25.40                     |
| RTAP 153.6Kbps   | 21.26    | 21.24  | 21.20  | 23.20                     | 24.53    | 24.65 | 24.69   | 25.50                     | 23.51     | 23.69 | 23.56 | 25.40                     |
| RETAP 4096Bits   | 21.23    | 21.31  | 21.23  | 23.20                     | 24.49    | 24.61 | 24.63   | 25.50                     | 23.55     | 23.66 | 23.52 | 25.40                     |

| Transmit Antenna | Ant 0    |        |        |                           | Ant 2    |       |         |                           | Ant 0     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.41  | 23.62  | 25.50                     | 22.95    | 23.01 | 23.01   | 24.70                     | 24.47     | 24.41 | 24.46 | 25.50                     |
| RC3 SO55         | 24.41    | 24.48  | 23.64  | 25.50                     | 22.90    | 22.98 | 23.05   | 24.70                     | 24.48     | 24.49 | 24.48 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.39    | 24.42  | 23.61  | 25.50                     | 22.98    | 23.02 | 23.06   | 24.70                     | 24.46     | 24.41 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.36    | 24.41  | 23.65  | 25.50                     | 22.94    | 22.93 | 22.99   | 24.70                     | 24.46     | 24.46 | 24.43 | 25.50                     |
| RTAP 153.6Kbps   | 24.34    | 24.50  | 23.62  | 25.50                     | 22.88    | 22.97 | 23.03   | 24.70                     | 24.41     | 24.43 | 24.42 | 25.50                     |
| RETAP 4096Bits   | 24.40    | 24.44  | 23.66  | 25.50                     | 22.94    | 22.95 | 22.99   | 24.70                     | 24.44     | 24.42 | 24.42 | 25.50                     |

| Transmit Antenna | Ant 1    |        |        |                           | Ant 0    |       |         |                           | Ant 1     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.42  | 24.06  | 25.50                     | 19.16    | 19.20 | 19.36   | 21.00                     | 24.41     | 24.47 | 24.46 | 25.50                     |
| RC3 SO55         | 24.42    | 24.47  | 24.04  | 25.50                     | 19.20    | 19.24 | 19.28   | 21.00                     | 24.47     | 24.48 | 24.47 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.40    | 24.46  | 24.00  | 25.50                     | 19.25    | 19.30 | 19.21   | 21.00                     | 24.44     | 24.44 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.39    | 24.45  | 24.03  | 25.50                     | 19.18    | 19.32 | 19.18   | 21.00                     | 24.47     | 24.46 | 24.47 | 25.50                     |
| RTAP 153.6Kbps   | 24.44    | 24.45  | 24.02  | 25.50                     | 19.19    | 19.30 | 19.26   | 21.00                     | 24.43     | 24.46 | 24.46 | 25.50                     |
| RETAP 4096Bits   | 24.41    | 24.40  | 24.03  | 25.50                     | 19.25    | 19.33 | 19.29   | 21.00                     | 24.44     | 24.43 | 24.41 | 25.50                     |

| Transmit Antenna | Ant 0    |        |        |                           | Ant 2    |       |         |                           | Ant 0     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.41  | 23.62  | 25.50                     | 22.95    | 23.01 | 23.01   | 23.90                     | 24.47     | 24.41 | 24.46 | 25.50                     |
| RC3 SO55         | 24.41    | 24.48  | 23.64  | 25.50                     | 22.90    | 22.98 | 23.05   | 23.90                     | 24.48     | 24.49 | 24.48 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.39    | 24.42  | 23.61  | 25.50                     | 22.98    | 23.02 | 23.06   | 23.90                     | 24.46     | 24.41 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.36    | 24.41  | 23.65  | 25.50                     | 22.94    | 22.93 | 22.99   | 23.90                     | 24.46     | 24.46 | 24.43 | 25.50                     |
| RTAP 153.6Kbps   | 24.34    | 24.50  | 23.62  | 25.50                     | 22.88    | 22.97 | 23.03   | 23.90                     | 24.41     | 24.43 | 24.42 | 25.50                     |
| RETAP 4096Bits   | 24.40    | 24.44  | 23.66  | 25.50                     | 22.94    | 22.95 | 22.99   | 23.90                     | 24.44     | 24.42 | 24.42 | 25.50                     |

| Transmit Antenna | Ant 1    |        |        |                           | Ant 0    |       |         |                           | Ant 1     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.42  | 24.06  | 25.50                     | 19.16    | 19.20 | 19.36   | 20.20                     | 24.41     | 24.47 | 24.46 | 25.50                     |
| RC3 SO55         | 24.42    | 24.47  | 24.04  | 25.50                     | 19.20    | 19.24 | 19.28   | 20.20                     | 24.47     | 24.48 | 24.47 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.40    | 24.46  | 24.00  | 25.50                     | 19.25    | 19.30 | 19.21   | 20.20                     | 24.44     | 24.44 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.39    | 24.45  | 24.03  | 25.50                     | 19.18    | 19.32 | 19.18   | 20.20                     | 24.47     | 24.46 | 24.47 | 25.50                     |
| RTAP 153.6Kbps   | 24.44    | 24.45  | 24.02  | 25.50                     | 19.19    | 19.30 | 19.26   | 20.20                     | 24.43     | 24.46 | 24.46 | 25.50                     |
| RETAP 4096Bits   | 24.41    | 24.40  | 24.03  | 25.50                     | 19.25    | 19.33 | 19.29   | 20.20                     | 24.44     | 24.43 | 24.41 | 25.50                     |



| Transmit Antenna | Ant 0    |        |        |       | Ant 2    |       |         |                     | Ant 0     |       |       |                     |
|------------------|----------|--------|--------|-------|----------|-------|---------|---------------------|-----------|-------|-------|---------------------|
| Band             | CDMA BC0 |        |        | DSI 7 | CDMA BC1 |       |         | Tune-up Limit (dBm) | CDMA BC10 |       |       | Tune-up Limit (dBm) |
| TX Channel       | 1013     | 384    | 777    |       | 25       | 600   | 1175    |                     | 476       | 580   | 684   |                     |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |       | 1851.25  | 1880  | 1908.75 |                     | 817.9     | 820.5 | 823.1 |                     |
| RC1 SO55         | 24.40    | 24.41  | 23.62  | 25.50 | 24.61    | 24.72 | 24.80   | 25.50               | 24.47     | 24.41 | 24.46 | 25.50               |
| RC3 SO55         | 24.41    | 24.48  | 23.64  | 25.50 | 24.66    | 24.76 | 24.90   | 25.50               | 24.48     | 24.49 | 24.48 | 25.50               |
| RC3 SO32 (F+SCH) | 24.39    | 24.42  | 23.61  | 25.50 | 24.65    | 24.71 | 24.77   | 25.50               | 24.46     | 24.41 | 24.44 | 25.50               |
| RC3 SO32 (+SCH)  | 24.36    | 24.41  | 23.65  | 25.50 | 24.65    | 24.73 | 24.86   | 25.50               | 24.46     | 24.46 | 24.43 | 25.50               |
| RTAP 153.6Kbps   | 24.34    | 24.50  | 23.62  | 25.50 | 24.63    | 24.72 | 24.82   | 25.50               | 24.41     | 24.43 | 24.42 | 25.50               |
| RETAP 4096Bits   | 24.40    | 24.44  | 23.66  | 25.50 | 24.64    | 24.73 | 24.83   | 25.50               | 24.44     | 24.42 | 24.42 | 25.50               |

| Transmit Antenna | Ant 1    |        |        |                           | Ant 0    |       |         |                           | Ant 1     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 21.20    | 21.31  | 21.37  | 22.40                     | 24.55    | 24.63 | 24.69   | 25.50                     | 23.54     | 23.70 | 23.50 | 24.60                     |
| RC3 SO55         | 21.22    | 21.25  | 21.30  | 22.40                     | 24.58    | 24.64 | 24.70   | 25.50                     | 23.60     | 23.75 | 23.58 | 24.60                     |
| RC3 SO32 (F+SCH) | 21.21    | 21.31  | 21.39  | 22.40                     | 24.52    | 24.60 | 24.66   | 25.50                     | 23.57     | 23.65 | 23.49 | 24.60                     |
| RC3 SO32 (+SCH)  | 21.27    | 21.28  | 21.34  | 22.40                     | 24.55    | 24.59 | 24.62   | 25.50                     | 23.60     | 23.66 | 23.51 | 24.60                     |
| RTAP 153.6Kbps   | 21.26    | 21.24  | 21.20  | 22.40                     | 24.53    | 24.65 | 24.69   | 25.50                     | 23.51     | 23.69 | 23.56 | 24.60                     |
| RETAP 4096Bits   | 21.23    | 21.31  | 21.23  | 22.40                     | 24.49    | 24.61 | 24.63   | 25.50                     | 23.55     | 23.66 | 23.52 | 24.60                     |

| Transmit Antenna | Ant 0    |        |        |                           | Ant 2    |       |         |                           | Ant 0     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.41  | 23.62  | 25.50                     | 22.95    | 23.01 | 23.01   | 23.90                     | 24.47     | 24.41 | 24.46 | 25.50                     |
| RC3 SO55         | 24.41    | 24.48  | 23.64  | 25.50                     | 22.90    | 22.98 | 23.05   | 23.90                     | 24.48     | 24.49 | 24.48 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.39    | 24.42  | 23.61  | 25.50                     | 22.98    | 23.02 | 23.06   | 23.90                     | 24.46     | 24.41 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.36    | 24.41  | 23.65  | 25.50                     | 22.94    | 22.93 | 22.99   | 23.90                     | 24.46     | 24.46 | 24.43 | 25.50                     |
| RTAP 153.6Kbps   | 24.34    | 24.50  | 23.62  | 25.50                     | 22.88    | 22.97 | 23.03   | 23.90                     | 24.41     | 24.43 | 24.42 | 25.50                     |
| RETAP 4096Bits   | 24.40    | 24.44  | 23.66  | 25.50                     | 22.94    | 22.95 | 22.99   | 23.90                     | 24.44     | 24.42 | 24.42 | 25.50                     |

| Transmit Antenna | Ant 1    |        |        |                           | Ant 0    |       |         |                           | Ant 1     |       |       |                           |
|------------------|----------|--------|--------|---------------------------|----------|-------|---------|---------------------------|-----------|-------|-------|---------------------------|
| Band             | CDMA BC0 |        |        | Tune-up<br>Limit<br>(dBm) | CDMA BC1 |       |         | Tune-up<br>Limit<br>(dBm) | CDMA BC10 |       |       | Tune-up<br>Limit<br>(dBm) |
| TX Channel       | 1013     | 384    | 777    |                           | 25       | 600   | 1175    |                           | 476       | 580   | 684   |                           |
| Frequency (MHz)  | 824.7    | 836.52 | 848.31 |                           | 1851.25  | 1880  | 1908.75 |                           | 817.9     | 820.5 | 823.1 |                           |
| RC1 SO55         | 24.40    | 24.42  | 24.06  | 25.50                     | 19.16    | 19.20 | 19.36   | 20.20                     | 24.41     | 24.47 | 24.46 | 25.50                     |
| RC3 SO55         | 24.42    | 24.47  | 24.04  | 25.50                     | 19.20    | 19.24 | 19.28   | 20.20                     | 24.47     | 24.48 | 24.47 | 25.50                     |
| RC3 SO32 (F+SCH) | 24.40    | 24.46  | 24.00  | 25.50                     | 19.25    | 19.30 | 19.21   | 20.20                     | 24.44     | 24.44 | 24.44 | 25.50                     |
| RC3 SO32 (+SCH)  | 24.39    | 24.45  | 24.03  | 25.50                     | 19.18    | 19.32 | 19.18   | 20.20                     | 24.47     | 24.46 | 24.47 | 25.50                     |
| RTAP 153.6Kbps   | 24.44    | 24.45  | 24.02  | 25.50                     | 19.19    | 19.30 | 19.26   | 20.20                     | 24.43     | 24.46 | 24.46 | 25.50                     |
| RETAP 4096Bits   | 24.41    | 24.40  | 24.03  | 25.50                     | 19.25    | 19.33 | 19.29   | 20.20                     | 24.44     | 24.43 | 24.41 | 25.50                     |



| Band 2          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Art 2           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. I | Power Middle Ch. I | Power High Ch. I | Tune-up limit (dBm) |
| Channel         |            |         |           | 18700           | 18900              | 19100            |                     |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1900             |                     |
| 20              | QPSK       | 1       | 0         | 24.53           | 24.68              | 24.96            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.53           | 24.72              | 24.75            |                     |
| 20              | QPSK       | 1       | 99        | 24.52           | 24.71              | 24.80            |                     |
| 20              | QPSK       | 50      | 0         | 23.61           | 23.75              | 23.86            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.73           | 23.80              | 23.89            |                     |
| 20              | QPSK       | 50      | 50        | 23.71           | 23.88              | 23.97            |                     |
| 20              | QPSK       | 100     | 0         | 23.72           | 23.77              | 23.87            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.88           | 24.03              | 24.14            |                     |
| 20              | 16QAM      | 1       | 49        | 23.87           | 24.06              | 24.07            |                     |
| 20              | 16QAM      | 1       | 99        | 23.83           | 24.02              | 24.16            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.64           | 22.77              | 22.88            |                     |
| 20              | 16QAM      | 50      | 24        | 22.74           | 22.80              | 22.88            |                     |
| 20              | 16QAM      | 50      | 50        | 22.73           | 22.89              | 22.97            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.72           | 22.75              | 22.89            |                     |
| 20              | 64QAM      | 1       | 0         | 22.72           | 22.88              | 23.02            |                     |
| 20              | 64QAM      | 1       | 49        | 22.78           | 22.91              | 22.11            | 22.7                |
| 20              | 64QAM      | 1       | 99        | 22.66           | 22.94              | 22.63            |                     |
| 20              | 64QAM      | 50      | 0         | 21.65           | 21.78              | 21.34            |                     |
| 20              | 64QAM      | 50      | 24        | 21.76           | 21.84              | 21.35            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.60           | 21.91              | 21.61            |                     |
| 20              | 64QAM      | 100     | 0         | 21.70           | 21.81              | 21.42            |                     |
| Channel         |            |         |           | 18675           | 18900              | 19125            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5          | 1880               | 1902.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.54           | 24.73              | 24.81            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.56           | 24.72              | 24.81            |                     |
| 15              | QPSK       | 1       | 74        | 24.59           | 24.72              | 24.85            |                     |
| 15              | QPSK       | 36      | 0         | 23.64           | 23.75              | 23.85            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.74           | 23.80              | 23.98            |                     |
| 15              | QPSK       | 36      | 39        | 23.72           | 23.90              | 23.99            |                     |
| 15              | QPSK       | 75      | 0         | 23.71           | 23.79              | 23.91            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.80           | 24.04              | 24.13            |                     |
| 15              | 16QAM      | 1       | 37        | 23.88           | 24.02              | 24.12            |                     |
| 15              | 16QAM      | 1       | 74        | 23.88           | 24.05              | 24.19            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.62           | 22.77              | 22.86            |                     |
| 15              | 16QAM      | 36      | 20        | 22.71           | 22.80              | 22.96            |                     |
| 15              | 16QAM      | 36      | 39        | 22.72           | 22.80              | 22.99            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.72           | 22.81              | 22.91            |                     |
| 15              | 64QAM      | 1       | 0         | 22.74           | 22.87              | 22.37            |                     |
| 15              | 64QAM      | 1       | 37        | 22.78           | 22.92              | 22.37            | 22.7                |
| 15              | 64QAM      | 1       | 74        | 22.63           | 22.97              | 22.76            |                     |
| 15              | 64QAM      | 36      | 0         | 21.67           | 21.81              | 21.25            |                     |
| 15              | 64QAM      | 36      | 20        | 21.77           | 21.85              | 21.57            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.69           | 21.94              | 21.75            |                     |
| 15              | 64QAM      | 75      | 0         | 21.73           | 21.83              | 21.44            |                     |
| Channel         |            |         |           | 18650           | 18900              | 19150            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855            | 1880               | 1905             |                     |
| 10              | QPSK       | 1       | 0         | 24.53           | 24.68              | 24.83            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.54           | 24.73              | 24.84            |                     |
| 10              | QPSK       | 1       | 49        | 24.58           | 24.76              | 24.85            |                     |
| 10              | QPSK       | 25      | 0         | 23.66           | 23.76              | 23.86            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.72           | 23.81              | 23.91            |                     |
| 10              | QPSK       | 25      | 25        | 23.71           | 23.90              | 24.02            |                     |
| 10              | QPSK       | 50      | 0         | 23.69           | 23.80              | 23.93            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.92           | 24.09              | 24.18            |                     |
| 10              | 16QAM      | 1       | 25        | 23.93           | 24.12              | 24.27            |                     |
| 10              | 16QAM      | 1       | 49        | 23.94           | 24.12              | 24.24            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.64           | 22.75              | 22.85            |                     |
| 10              | 16QAM      | 25      | 12        | 22.71           | 22.82              | 22.91            |                     |
| 10              | 16QAM      | 25      | 25        | 22.72           | 22.87              | 23.02            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.69           | 22.80              | 22.92            |                     |
| 10              | 64QAM      | 1       | 0         | 22.84           | 22.95              | 22.38            |                     |
| 10              | 64QAM      | 1       | 25        | 22.85           | 23.07              | 22.89            | 22.7                |
| 10              | 64QAM      | 1       | 49        | 22.84           | 23.07              | 22.94            |                     |
| 10              | 64QAM      | 25      | 0         | 21.69           | 21.78              | 21.47            |                     |
| 10              | 64QAM      | 25      | 12        | 21.76           | 21.85              | 21.75            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.74           | 21.92              | 21.76            |                     |
| 10              | 64QAM      | 50      | 0         | 21.71           | 21.82              | 21.56            |                     |
| Channel         |            |         |           | 18625           | 18900              | 19175            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5          | 1880               | 1907.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.55           | 24.66              | 24.86            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.62           | 24.80              | 24.92            |                     |
| 5               | QPSK       | 1       | 24        | 24.60           | 24.81              | 24.95            |                     |
| 5               | QPSK       | 12      | 0         | 23.68           | 23.77              | 23.98            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.70           | 23.90              | 24.00            |                     |
| 5               | QPSK       | 12      | 13        | 23.68           | 23.90              | 24.03            |                     |
| 5               | QPSK       | 25      | 0         | 23.67           | 23.80              | 23.98            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.86           | 23.97              | 24.26            |                     |
| 5               | 16QAM      | 1       | 12        | 23.90           | 24.09              | 24.24            |                     |
| 5               | 16QAM      | 1       | 24        | 23.94           | 24.12              | 24.28            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.68           | 22.82              | 23.00            |                     |
| 5               | 16QAM      | 12      | 7         | 22.71           | 22.94              | 23.02            |                     |
| 5               | 16QAM      | 12      | 13        | 22.72           | 22.88              | 23.03            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.71           | 22.81              | 23.04            |                     |
| 5               | 64QAM      | 1       | 0         | 22.87           | 22.98              | 22.73            |                     |
| 5               | 64QAM      | 1       | 12        | 22.80           | 23.03              | 22.88            | 22.7                |
| 5               | 64QAM      | 1       | 24        | 22.87           | 23.06              | 22.75            |                     |
| 5               | 64QAM      | 12      | 0         | 21.73           | 21.85              | 21.81            |                     |
| 5               | 64QAM      | 12      | 7         | 21.79           | 21.95              | 21.84            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.75           | 21.92              | 21.72            |                     |
| 5               | 64QAM      | 25      | 0         | 21.68           | 21.82              | 21.64            |                     |
| Channel         |            |         |           | 18615           | 18900              | 19185            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1851.5          | 1880               | 1905.5           |                     |
| 3               | QPSK       | 1       | 0         | 24.55           | 24.69              | 24.88            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.64           | 24.83              | 24.95            |                     |
| 3               | QPSK       | 1       | 14        | 24.58           | 24.79              | 24.93            |                     |
| 3               | QPSK       | 8       | 0         | 23.67           | 23.80              | 23.97            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.70           | 23.90              | 24.01            |                     |
| 3               | QPSK       | 8       | 7         | 23.64           | 23.87              | 23.99            |                     |
| 3               | QPSK       | 15      | 0         | 23.64           | 23.80              | 23.99            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.83           | 23.99              | 24.18            |                     |
| 3               | 16QAM      | 1       | 8         | 23.96           | 24.14              | 24.25            |                     |
| 3               | 16QAM      | 1       | 14        | 23.94           | 24.10              | 24.25            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.72           | 22.86              | 23.05            |                     |
| 3               | 16QAM      | 8       | 4         | 22.77           | 22.96              | 23.06            |                     |
| 3               | 16QAM      | 8       | 7         | 22.71           | 22.95              | 23.06            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.69           | 22.82              | 22.99            |                     |
| 3               | 64QAM      | 1       | 0         | 22.81           | 23.01              | 22.83            |                     |
| 3               | 64QAM      | 1       | 8         | 22.94           | 23.12              | 22.86            | 22.7                |
| 3               | 64QAM      | 1       | 14        | 22.84           | 23.06              | 22.70            |                     |
| 3               | 64QAM      | 8       | 0         | 21.73           | 21.83              | 21.74            |                     |
| 3               | 64QAM      | 8       | 4         | 21.75           | 21.95              | 21.76            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.71           | 21.93              | 21.68            |                     |
| 3               | 64QAM      | 15      | 0         | 21.71           | 21.81              | 21.66            |                     |
| Channel         |            |         |           | 18600           | 18900              | 19193            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1850.7          | 1880               | 1909.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 24.46           | 24.67              | 24.82            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.54           | 24.74              | 24.90            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.47           | 24.69              | 24.84            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.54           | 24.71              | 24.84            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.58           | 24.77              | 24.88            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.52           | 24.73              | 24.85            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.58           | 23.80              | 23.99            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.82           | 23.99              | 24.18            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.87           | 24.13              | 24.23            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.82           | 24.01              | 24.17            | 23.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.60           | 23.79              | 23.91            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.66           | 23.85              | 23.97            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.59           | 23.79              | 23.88            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.85           | 22.84              | 22.97            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.80           | 22.92              | 22.63            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.84           | 23.05              | 22.68            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.77           | 22.96              | 22.58            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.71           | 22.93              | 22.63            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.79           | 22.99              | 22.69            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.74           | 22.94              | 22.56            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.61           | 21.82              | 21.53            |                     |



| Band 4          |            |         |           |                      |                         |                       |                     |  |  |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|--|--|
| Ant 2           |            |         |           |                      |                         |                       |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / 20050 | Power Middle Ch / 20175 | Power High Ch / 20300 | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 1720                 | 1732.5                  | 1745                  |                     |  |  |
| Frequency (MHz) |            |         |           | 1720                 | 1732.5                  | 1745                  |                     |  |  |
| 20              | QPSK       | 1       | 0         | 24.42                | 24.50                   | 24.45                 | 25.7                |  |  |
| 20              | QPSK       | 1       | 49        | 24.32                | 24.32                   | 24.33                 |                     |  |  |
| 20              | QPSK       | 1       | 99        | 24.31                | 24.35                   | 24.31                 |                     |  |  |
| 20              | QPSK       | 50      | 0         | 23.47                | 23.50                   | 23.54                 | 24.7                |  |  |
| 20              | QPSK       | 50      | 24        | 23.51                | 23.53                   | 23.54                 |                     |  |  |
| 20              | QPSK       | 50      | 50        | 23.46                | 23.43                   | 23.48                 |                     |  |  |
| 20              | QPSK       | 100     | 0         | 23.50                | 23.60                   | 23.41                 | 24.7                |  |  |
| 20              | 16QAM      | 1       | 0         | 23.78                | 23.83                   | 23.76                 |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 23.66                | 23.64                   | 23.66                 |                     |  |  |
| 20              | 16QAM      | 1       | 99        | 23.69                | 23.86                   | 23.60                 | 23.7                |  |  |
| 20              | 16QAM      | 50      | 0         | 22.49                | 22.54                   | 22.55                 |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.52                | 22.55                   | 22.53                 |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 22.46                | 22.45                   | 22.46                 | 23.7                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.49                | 22.56                   | 22.42                 |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 22.24                | 22.68                   | 22.19                 |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 22.53                | 22.52                   | 22.56                 | 23.7                |  |  |
| 20              | 64QAM      | 1       | 99        | 22.58                | 22.03                   | 22.57                 |                     |  |  |
| 20              | 64QAM      | 50      | 0         | 21.50                | 21.54                   | 21.24                 |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 21.54                | 21.45                   | 21.56                 | 22.7                |  |  |
| 20              | 64QAM      | 50      | 50        | 21.47                | 21.07                   | 21.46                 |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.54                | 21.55                   | 21.48                 |                     |  |  |
| Channel         |            |         |           | 20025                | 20175                   | 20300                 | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1717.5               | 1732.5                  | 1747.5                |                     |  |  |
| 15              | QPSK       | 1       | 0         | 24.44                | 24.48                   | 24.49                 | 25.7                |  |  |
| 15              | QPSK       | 1       | 37        | 24.29                | 24.32                   | 24.34                 |                     |  |  |
| 15              | QPSK       | 1       | 74        | 24.31                | 24.31                   | 24.30                 |                     |  |  |
| 15              | QPSK       | 36      | 0         | 23.55                | 23.55                   | 23.51                 | 24.7                |  |  |
| 15              | QPSK       | 36      | 20        | 23.49                | 23.52                   | 23.53                 |                     |  |  |
| 15              | QPSK       | 36      | 39        | 23.44                | 23.46                   | 23.45                 |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.49                | 23.54                   | 23.45                 | 24.7                |  |  |
| 15              | 16QAM      | 1       | 0         | 23.73                | 23.80                   | 23.81                 |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 23.59                | 23.63                   | 23.68                 |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 23.63                | 23.62                   | 23.61                 | 23.7                |  |  |
| 15              | 16QAM      | 36      | 0         | 22.53                | 22.50                   | 22.51                 |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.47                | 22.50                   | 22.52                 |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 22.45                | 22.44                   | 22.45                 | 23.7                |  |  |
| 15              | 16QAM      | 75      | 0         | 22.49                | 22.54                   | 22.45                 |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 22.25                | 22.67                   | 22.48                 |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 22.54                | 22.34                   | 22.63                 | 23.7                |  |  |
| 15              | 64QAM      | 1       | 74        | 22.53                | 22.12                   | 22.56                 |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 21.55                | 21.58                   | 21.52                 |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 21.46                | 21.41                   | 21.53                 | 22.7                |  |  |
| 15              | 64QAM      | 36      | 39        | 21.45                | 21.06                   | 21.47                 |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 21.49                | 21.46                   | 21.44                 |                     |  |  |
| Channel         |            |         |           | 20000                | 20175                   | 20350                 | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1715                 | 1732.5                  | 1750                  |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.39                | 24.42                   | 24.45                 | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.35                | 24.42                   | 24.42                 |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.36                | 24.38                   | 24.40                 |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.45                | 23.47                   | 23.46                 | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.50                | 23.57                   | 23.48                 |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.52                | 23.57                   | 23.56                 |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.53                | 23.56                   | 23.50                 | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 23.73                | 23.79                   | 23.81                 |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 23.73                | 23.82                   | 23.81                 |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 23.75                | 23.75                   | 23.81                 | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.47                | 22.45                   | 22.46                 |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.51                | 22.57                   | 22.52                 |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.49                | 22.54                   | 22.57                 | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.50                | 22.56                   | 22.48                 |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.08                | 22.64                   | 22.69                 |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.65                | 22.44                   | 22.71                 | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.67                | 22.01                   | 22.71                 |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.44                | 21.50                   | 21.52                 |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.51                | 21.35                   | 21.52                 | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 21.51                | 21.03                   | 21.58                 |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.53                | 21.32                   | 21.54                 |                     |  |  |
| Channel         |            |         |           | 19975                | 20175                   | 20375                 | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1712.5               | 1732.5                  | 1752.5                |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.37                | 24.38                   | 24.40                 | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.46                | 24.48                   | 24.48                 |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.43                | 24.48                   | 24.46                 |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.48                | 23.44                   | 23.53                 | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.52                | 23.54                   | 23.54                 |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.51                | 23.52                   | 23.50                 |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.46                | 23.46                   | 23.53                 | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 23.70                | 23.78                   | 23.79                 |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.74                | 23.72                   | 23.79                 |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 23.77                | 23.76                   | 23.82                 | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.50                | 22.46                   | 22.57                 |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.53                | 22.57                   | 22.56                 |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.54                | 22.57                   | 22.55                 | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.51                | 22.53                   | 22.55                 |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.06                | 22.62                   | 22.67                 |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.43                | 22.33                   | 22.71                 | 23.7                |  |  |
| 5               | 64QAM      | 1       | 24        | 22.74                | 22.09                   | 22.71                 |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.11                | 21.51                   | 21.57                 |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.40                | 21.31                   | 21.64                 | 22.7                |  |  |
| 5               | 64QAM      | 12      | 13        | 21.55                | 21.08                   | 21.63                 |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.35                | 21.27                   | 21.54                 |                     |  |  |
| Channel         |            |         |           | 19965                | 20175                   | 20385                 | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1711.5               | 1732.5                  | 1753.5                |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.38                | 24.36                   | 24.41                 | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.46                | 24.48                   | 24.48                 |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.40                | 24.43                   | 24.43                 |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.46                | 23.44                   | 23.51                 | 24.7                |  |  |
| 3               | QPSK       | 8       | 4         | 23.52                | 23.52                   | 23.52                 |                     |  |  |
| 3               | QPSK       | 8       | 7         | 23.46                | 23.51                   | 23.51                 |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.46                | 23.56                   | 23.50                 | 24.7                |  |  |
| 3               | 16QAM      | 1       | 0         | 23.70                | 23.75                   | 23.76                 |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 23.79                | 23.83                   | 23.81                 |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 23.74                | 23.75                   | 23.78                 | 23.7                |  |  |
| 3               | 16QAM      | 8       | 0         | 22.52                | 22.49                   | 22.56                 |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.59                | 22.62                   | 22.62                 |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.58                | 22.56                   | 22.57                 | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.50                | 22.56                   | 22.57                 |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.01                | 22.49                   | 22.69                 |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.30                | 22.39                   | 22.75                 | 23.7                |  |  |
| 3               | 64QAM      | 1       | 14        | 22.40                | 22.19                   | 22.71                 |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 20.99                | 21.39                   | 21.60                 |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.16                | 21.32                   | 21.61                 | 22.7                |  |  |
| 3               | 64QAM      | 8       | 7         | 21.27                | 21.20                   | 21.58                 |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.14                | 21.29                   | 21.56                 |                     |  |  |
| Channel         |            |         |           | 19957                | 20175                   | 20393                 | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1710.7               | 1732.5                  | 1754.3                |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.31                | 24.33                   | 24.33                 | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.37                | 24.39                   | 24.42                 |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.30                | 24.35                   | 24.37                 |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.31                | 24.35                   | 24.41                 | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.39                | 24.41                   | 24.43                 |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.35                | 24.37                   | 24.38                 |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.39                | 23.42                   | 23.44                 | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.66                | 23.65                   | 23.69                 |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.73                | 23.72                   | 23.76                 |                     |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.64                | 23.65                   | 23.66                 | 24.7                |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.43                | 23.44                   | 23.47                 |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.49                | 23.49                   | 23.55                 |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.41                | 23.45                   | 23.45                 | 23.7                |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.44                | 22.50                   | 22.52                 |                     |  |  |
| 1.4             | 16QAM      | 6       | 1         | 22.39                | 22.41                   | 22.46                 |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.08                | 22.32                   | 22.69                 | 23.7                |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.09                | 22.21                   | 22.63                 |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.17                | 22.46                   | 22.64                 |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.11                | 22.27                   | 22.61                 |                     |  |  |



| Band 5          |            |         |           |                      |                         |                       |                     |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|
| Ant 0           |            |         |           |                      |                         |                       |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / 20450 | Power Middle Ch / 20525 | Power High Ch / 20600 | Tune-up limit (dBm) |
| Channel         |            |         |           | 829                  | 836.5                   | 844                   |                     |
| Frequency (MHz) |            |         |           | 829                  | 836.5                   | 844                   |                     |
| 10              | QPSK       | 1       | 0         | 24.76                | 24.62                   | 24.62                 | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58                | 24.62                   | 24.62                 |                     |
| 10              | QPSK       | 1       | 49        | 24.58                | 24.62                   | 24.26                 |                     |
| 10              | QPSK       | 25      | 0         | 23.68                | 23.72                   | 23.72                 | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.75                | 23.74                   | 23.72                 |                     |
| 10              | QPSK       | 25      | 25        | 23.72                | 23.78                   | 23.73                 |                     |
| 10              | QPSK       | 50      | 0         | 23.75                | 23.70                   | 23.73                 | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.01                | 24.01                   | 23.99                 |                     |
| 10              | 16QAM      | 1       | 25        | 23.98                | 24.05                   | 24.00                 |                     |
| 10              | 16QAM      | 1       | 49        | 24.00                | 24.04                   | 23.90                 | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.96                | 22.74                   | 22.71                 |                     |
| 10              | 16QAM      | 25      | 12        | 22.76                | 22.72                   | 22.75                 |                     |
| 10              | 16QAM      | 25      | 25        | 22.72                | 22.76                   | 22.79                 | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.77                | 22.74                   | 22.75                 |                     |
| 10              | 64QAM      | 1       | 0         | 22.68                | 22.88                   | 22.87                 | 23.7                |
| 10              | 64QAM      | 1       | 25        | 22.92                | 22.85                   | 22.85                 |                     |
| 10              | 64QAM      | 1       | 49        | 22.89                | 22.46                   | 21.77                 |                     |
| 10              | 64QAM      | 25      | 0         | 21.67                | 21.78                   | 21.76                 | 22.7                |
| 10              | 64QAM      | 25      | 12        | 21.80                | 21.77                   | 21.68                 |                     |
| 10              | 64QAM      | 25      | 25        | 21.76                | 21.64                   | 21.09                 |                     |
| 10              | 64QAM      | 50      | 0         | 21.79                | 21.74                   | 21.27                 |                     |
| Channel         |            |         |           | 20425                | 20525                   | 20625                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 825.5                | 836.5                   | 846.5                 |                     |
| 5               | QPSK       | 1       | 0         | 24.75                | 24.60                   | 24.67                 | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.65                | 24.72                   | 24.40                 |                     |
| 5               | QPSK       | 1       | 24        | 24.61                | 24.65                   | 24.19                 |                     |
| 5               | QPSK       | 12      | 0         | 23.77                | 23.72                   | 23.75                 | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.73                | 23.78                   | 23.42                 |                     |
| 5               | QPSK       | 12      | 13        | 23.70                | 23.74                   | 23.13                 |                     |
| 5               | QPSK       | 25      | 0         | 23.74                | 23.70                   | 23.60                 | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.08                | 24.03                   | 24.01                 |                     |
| 5               | 16QAM      | 1       | 12        | 23.99                | 24.03                   | 23.67                 |                     |
| 5               | 16QAM      | 1       | 24        | 23.96                | 23.99                   | 23.34                 | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.81                | 22.77                   | 22.75                 |                     |
| 5               | 16QAM      | 12      | 7         | 22.78                | 22.81                   | 22.61                 |                     |
| 5               | 16QAM      | 12      | 13        | 22.74                | 22.75                   | 22.31                 | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75                | 22.72                   | 22.69                 |                     |
| 5               | 64QAM      | 1       | 0         | 22.75                | 22.94                   | 22.62                 |                     |
| 5               | 64QAM      | 1       | 12        | 22.90                | 22.85                   | 21.90                 | 22.7                |
| 5               | 64QAM      | 1       | 24        | 22.89                | 22.62                   | 21.71                 |                     |
| 5               | 64QAM      | 12      | 0         | 21.73                | 21.80                   | 21.31                 |                     |
| 5               | 64QAM      | 12      | 7         | 21.60                | 21.79                   | 20.75                 | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.75                | 21.66                   | 20.71                 |                     |
| 5               | 64QAM      | 25      | 0         | 21.73                | 21.76                   | 20.81                 |                     |
| Channel         |            |         |           | 20415                | 20525                   | 20635                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 825.5                | 836.5                   | 847.5                 |                     |
| 3               | QPSK       | 1       | 0         | 24.70                | 24.66                   | 24.52                 | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.67                | 24.70                   | 24.11                 |                     |
| 3               | QPSK       | 1       | 14        | 24.54                | 24.62                   | 24.05                 |                     |
| 3               | QPSK       | 8       | 0         | 23.76                | 23.72                   | 23.36                 | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.68                | 23.74                   | 23.21                 |                     |
| 3               | QPSK       | 8       | 7         | 23.67                | 23.72                   | 23.15                 |                     |
| 3               | QPSK       | 15      | 0         | 23.72                | 23.67                   | 23.26                 | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.01                | 23.96                   | 23.87                 |                     |
| 3               | 16QAM      | 1       | 8         | 23.99                | 24.02                   | 23.50                 |                     |
| 3               | 16QAM      | 1       | 14        | 23.89                | 23.92                   | 23.42                 | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.83                | 22.76                   | 22.54                 |                     |
| 3               | 16QAM      | 8       | 4         | 22.79                | 22.80                   | 22.38                 |                     |
| 3               | 16QAM      | 8       | 7         | 22.75                | 22.76                   | 22.29                 | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.77                | 22.69                   | 22.43                 |                     |
| 3               | 64QAM      | 1       | 0         | 22.65                | 22.50                   | 21.96                 |                     |
| 3               | 64QAM      | 1       | 8         | 22.66                | 22.97                   | 21.74                 | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.84                | 22.82                   | 21.71                 |                     |
| 3               | 64QAM      | 8       | 0         | 21.61                | 21.75                   | 20.73                 |                     |
| 3               | 64QAM      | 8       | 4         | 21.69                | 21.82                   | 20.72                 | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.70                | 21.76                   | 20.71                 |                     |
| 3               | 64QAM      | 15      | 0         | 21.74                | 21.69                   | 20.78                 |                     |
| Channel         |            |         |           | 20107                | 20525                   | 20553                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 824.7                | 836.5                   | 846.3                 |                     |
| 1.4             | QPSK       | 1       | 0         | 24.59                | 24.53                   | 23.98                 | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.59                | 24.61                   | 24.06                 |                     |
| 1.4             | QPSK       | 1       | 5         | 24.51                | 24.53                   | 24.06                 |                     |
| 1.4             | QPSK       | 3       | 0         | 24.62                | 24.57                   | 23.99                 | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.62                | 24.57                   | 24.05                 |                     |
| 1.4             | QPSK       | 3       | 3         | 24.60                | 24.58                   | 24.12                 |                     |
| 1.4             | QPSK       | 6       | 0         | 23.64                | 23.64                   | 23.08                 | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.88                | 23.86                   | 23.28                 |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.93                | 23.95                   | 23.39                 |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.83                | 23.89                   | 23.43                 | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.67                | 23.62                   | 23.14                 |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.71                | 23.66                   | 23.17                 |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.64                | 23.67                   | 23.21                 | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71                | 22.74                   | 22.28                 |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.64                | 22.80                   | 21.77                 |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.66                | 22.86                   | 21.76                 | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.62                | 22.79                   | 21.73                 |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.61                | 22.78                   | 21.72                 |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.66                | 22.79                   | 21.77                 | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.64                | 22.79                   | 21.77                 |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.50                | 21.69                   | 20.74                 |                     |



| Band 7          |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 2           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850          | 21100             | 21350           |                     |
| Frequency (MHz) |            |         |           | 2510           | 2535              | 2560            |                     |
| 20              | QPSK       | 1       | 0         | 24.69          | 24.76             | 24.80           | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.74          | 24.81             | 24.78           |                     |
| 20              | QPSK       | 1       | 99        | 24.84          | 24.83             | 24.83           |                     |
| 20              | QPSK       | 50      | 0         | 23.80          | 23.87             | 23.88           | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.92          | 23.91             | 23.91           |                     |
| 20              | QPSK       | 50      | 50        | 23.94          | 23.92             | 23.92           |                     |
| 20              | QPSK       | 100     | 0         | 23.91          | 23.89             | 23.91           | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.01          | 24.09             | 24.15           |                     |
| 20              | 16QAM      | 1       | 49        | 24.12          | 24.17             | 24.15           |                     |
| 20              | 16QAM      | 1       | 99        | 24.15          | 24.21             | 24.14           | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.91          | 22.87             | 22.91           |                     |
| 20              | 16QAM      | 50      | 24        | 22.93          | 22.92             | 22.94           |                     |
| 20              | 16QAM      | 50      | 50        | 22.96          | 23.02             | 22.98           | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.92          | 22.90             | 22.92           |                     |
| 20              | 64QAM      | 1       | 0         | 22.89          | 22.95             | 22.99           |                     |
| 20              | 64QAM      | 1       | 49        | 22.98          | 23.07             | 22.88           | 22.7                |
| 20              | 64QAM      | 1       | 99        | 23.07          | 23.13             | 22.92           |                     |
| 20              | 64QAM      | 50      | 0         | 21.84          | 21.92             | 21.92           |                     |
| 20              | 64QAM      | 50      | 24        | 21.95          | 21.95             | 21.71           | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.98          | 22.04             | 21.56           |                     |
| 20              | 64QAM      | 100     | 0         | 21.94          | 21.92             | 21.71           |                     |
| Channel         |            |         |           | 20925          | 21100             | 21375           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5         | 2535              | 2562.5          |                     |
| 15              | QPSK       | 1       | 0         | 24.07          | 24.77             | 24.82           | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.72          | 24.81             | 24.81           |                     |
| 15              | QPSK       | 1       | 74        | 24.80          | 24.80             | 24.83           |                     |
| 15              | QPSK       | 36      | 0         | 23.77          | 23.87             | 23.90           | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.93          | 23.91             | 23.91           |                     |
| 15              | QPSK       | 36      | 39        | 23.94          | 24.00             | 23.95           |                     |
| 15              | QPSK       | 75      | 0         | 23.88          | 23.91             | 23.88           | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.00          | 24.11             | 24.14           |                     |
| 15              | 16QAM      | 1       | 37        | 24.05          | 24.14             | 24.15           |                     |
| 15              | 16QAM      | 1       | 74        | 24.14          | 24.24             | 24.13           | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.80          | 22.89             | 22.90           |                     |
| 15              | 16QAM      | 36      | 20        | 22.92          | 22.92             | 22.90           |                     |
| 15              | 16QAM      | 36      | 39        | 22.95          | 23.02             | 22.96           | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.91          | 22.92             | 22.89           |                     |
| 15              | 64QAM      | 1       | 0         | 22.89          | 23.01             | 23.01           |                     |
| 15              | 64QAM      | 1       | 37        | 22.99          | 23.08             | 22.38           | 22.7                |
| 15              | 64QAM      | 1       | 74        | 23.01          | 23.14             | 22.69           |                     |
| 15              | 64QAM      | 36      | 0         | 21.85          | 21.94             | 21.72           |                     |
| 15              | 64QAM      | 36      | 20        | 21.93          | 21.93             | 21.52           | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.97          | 22.06             | 21.58           |                     |
| 15              | 64QAM      | 75      | 0         | 21.91          | 21.95             | 21.57           |                     |
| Channel         |            |         |           | 20800          | 21100             | 21400           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505           | 2535              | 2565            |                     |
| 10              | QPSK       | 1       | 0         | 24.68          | 24.75             | 24.75           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.64          | 24.74             | 24.73           |                     |
| 10              | QPSK       | 1       | 49        | 24.71          | 24.83             | 24.78           |                     |
| 10              | QPSK       | 25      | 0         | 23.84          | 23.87             | 23.82           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.88          | 23.89             | 23.84           |                     |
| 10              | QPSK       | 25      | 25        | 23.85          | 23.98             | 23.92           |                     |
| 10              | QPSK       | 50      | 0         | 23.88          | 23.91             | 23.83           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.04          | 24.13             | 24.11           |                     |
| 10              | 16QAM      | 1       | 25        | 24.04          | 24.17             | 24.14           |                     |
| 10              | 16QAM      | 1       | 49        | 24.13          | 24.22             | 24.15           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.85          | 22.86             | 22.82           |                     |
| 10              | 16QAM      | 25      | 12        | 22.86          | 22.91             | 22.87           |                     |
| 10              | 16QAM      | 25      | 25        | 22.89          | 22.97             | 22.92           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.87          | 22.89             | 22.84           |                     |
| 10              | 64QAM      | 1       | 0         | 22.97          | 22.99             | 22.86           |                     |
| 10              | 64QAM      | 1       | 25        | 23.00          | 23.08             | 22.74           | 22.7                |
| 10              | 64QAM      | 1       | 49        | 23.01          | 23.14             | 22.89           |                     |
| 10              | 64QAM      | 25      | 0         | 21.88          | 21.89             | 21.50           |                     |
| 10              | 64QAM      | 25      | 12        | 21.92          | 21.93             | 21.62           | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.92          | 22.00             | 21.66           |                     |
| 10              | 64QAM      | 50      | 0         | 21.92          | 21.94             | 21.50           |                     |
| Channel         |            |         |           | 20775          | 21100             | 21425           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5         | 2535              | 2567.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.59          | 24.75             | 24.74           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.75          | 24.80             | 24.75           |                     |
| 5               | QPSK       | 1       | 24        | 24.74          | 24.80             | 24.77           |                     |
| 5               | QPSK       | 12      | 0         | 23.83          | 23.88             | 23.88           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.87          | 23.86             | 23.90           |                     |
| 5               | QPSK       | 12      | 13        | 23.84          | 23.98             | 23.88           |                     |
| 5               | QPSK       | 25      | 0         | 23.84          | 23.89             | 23.85           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.05          | 24.10             | 24.09           |                     |
| 5               | 16QAM      | 1       | 12        | 24.06          | 24.16             | 24.07           |                     |
| 5               | 16QAM      | 1       | 24        | 24.07          | 24.17             | 24.10           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.88          | 22.91             | 22.93           |                     |
| 5               | 16QAM      | 12      | 7         | 22.88          | 22.93             | 22.89           |                     |
| 5               | 16QAM      | 12      | 13        | 22.90          | 22.97             | 22.89           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.88          | 22.89             | 22.87           |                     |
| 5               | 64QAM      | 1       | 0         | 23.00          | 23.00             | 22.69           |                     |
| 5               | 64QAM      | 1       | 12        | 22.99          | 23.08             | 22.72           | 22.7                |
| 5               | 64QAM      | 1       | 24        | 23.01          | 23.10             | 22.82           |                     |
| 5               | 64QAM      | 12      | 0         | 21.91          | 21.94             | 21.57           |                     |
| 5               | 64QAM      | 12      | 7         | 21.87          | 21.95             | 21.72           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.91          | 22.03             | 21.75           |                     |
| 5               | 64QAM      | 25      | 0         | 21.87          | 21.90             | 21.63           |                     |





| Band 12         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23050          | 23095             | 23130           |                     |
| Frequency (MHz) |            |         |           | 704            | 707.5             | 711             |                     |
| 10              | QPSK       | 1       | 0         | 24.64          | 24.61             | 24.63           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.63          | 24.68             | 24.65           |                     |
| 10              | QPSK       | 1       | 49        | 24.76          | 24.71             | 24.70           |                     |
| 10              | QPSK       | 25      | 0         | 23.74          | 23.78             | 23.77           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.87          | 23.80             | 23.78           |                     |
| 10              | QPSK       | 25      | 25        | 23.88          | 23.85             | 23.83           |                     |
| 10              | QPSK       | 50      | 0         | 23.83          | 23.80             | 23.79           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.03          | 23.97             | 23.99           |                     |
| 10              | 16QAM      | 1       | 25        | 24.06          | 24.05             | 24.01           |                     |
| 10              | 16QAM      | 1       | 49        | 24.12          | 24.06             | 24.07           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.76          | 22.75             | 22.77           |                     |
| 10              | 16QAM      | 25      | 12        | 22.82          | 22.80             | 22.78           |                     |
| 10              | 16QAM      | 25      | 25        | 22.81          | 22.85             | 22.79           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.83          | 22.78             | 22.76           |                     |
| 10              | 64QAM      | 1       | 0         | 22.91          | 22.84             | 22.87           |                     |
| 10              | 64QAM      | 1       | 25        | 22.76          | 22.99             | 22.73           | 23.7                |
| 10              | 64QAM      | 1       | 49        | 23.06          | 22.95             | 22.95           |                     |
| 10              | 64QAM      | 25      | 0         | 21.78          | 21.80             | 21.79           |                     |
| 10              | 64QAM      | 25      | 12        | 21.88          | 21.83             | 21.81           | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.82          | 21.90             | 21.84           |                     |
| 10              | 64QAM      | 50      | 0         | 21.83          | 21.81             | 21.80           |                     |
| Channel         |            |         |           | 23095          | 23095             | 23105           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 701.5          | 707.5             | 713.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.70          | 24.72             | 24.67           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72          | 24.73             | 24.71           |                     |
| 5               | QPSK       | 1       | 24        | 24.69          | 24.71             | 24.72           |                     |
| 5               | QPSK       | 12      | 0         | 23.83          | 23.79             | 23.78           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.78          | 23.75             | 23.81           |                     |
| 5               | QPSK       | 12      | 13        | 23.75          | 23.82             | 23.77           |                     |
| 5               | QPSK       | 25      | 0         | 23.79          | 23.76             | 23.75           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.02          | 24.04             | 23.98           |                     |
| 5               | 16QAM      | 1       | 12        | 24.03          | 24.01             | 24.02           |                     |
| 5               | 16QAM      | 1       | 24        | 24.02          | 24.07             | 24.03           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.85          | 22.83             | 22.80           |                     |
| 5               | 16QAM      | 12      | 7         | 22.81          | 22.78             | 22.85           |                     |
| 5               | 16QAM      | 12      | 13        | 22.83          | 22.82             | 22.80           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.81          | 22.82             | 22.75           |                     |
| 5               | 64QAM      | 1       | 0         | 22.62          | 22.73             | 22.91           |                     |
| 5               | 64QAM      | 1       | 12        | 22.83          | 22.94             | 22.94           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.80          | 22.98             | 22.93           |                     |
| 5               | 64QAM      | 12      | 0         | 21.81          | 21.89             | 21.87           |                     |
| 5               | 64QAM      | 12      | 7         | 21.68          | 21.85             | 21.86           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.82          | 21.87             | 21.84           |                     |
| 5               | 64QAM      | 25      | 0         | 21.83          | 21.79             | 21.79           |                     |
| Channel         |            |         |           | 23025          | 23095             | 23165           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 700.5          | 707.5             | 714.5           |                     |
| 3               | QPSK       | 1       | 0         | 24.75          | 24.69             | 24.72           | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.73          | 24.74             | 24.73           |                     |
| 3               | QPSK       | 1       | 14        | 24.65          | 24.71             | 24.67           |                     |
| 3               | QPSK       | 8       | 0         | 23.79          | 23.79             | 23.73           | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.78          | 23.74             | 23.77           |                     |
| 3               | QPSK       | 8       | 7         | 23.73          | 23.76             | 23.75           |                     |
| 3               | QPSK       | 15      | 0         | 23.77          | 23.75             | 23.73           | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.08          | 24.01             | 24.02           |                     |
| 3               | 16QAM      | 1       | 8         | 24.06          | 24.08             | 24.08           |                     |
| 3               | 16QAM      | 1       | 14        | 24.00          | 24.05             | 23.98           | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.88          | 22.83             | 22.82           |                     |
| 3               | 16QAM      | 8       | 4         | 22.90          | 22.83             | 22.87           |                     |
| 3               | 16QAM      | 8       | 7         | 22.84          | 22.94             | 22.83           | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.80          | 22.80             | 22.75           |                     |
| 3               | 64QAM      | 1       | 0         | 22.67          | 22.90             | 22.95           |                     |
| 3               | 64QAM      | 1       | 8         | 22.61          | 23.01             | 22.96           | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.92          | 22.95             | 22.88           |                     |
| 3               | 64QAM      | 8       | 0         | 21.82          | 21.81             | 21.81           |                     |
| 3               | 64QAM      | 8       | 4         | 21.87          | 21.84             | 21.87           | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.82          | 21.85             | 21.81           |                     |
| 3               | 64QAM      | 15      | 0         | 21.65          | 21.78             | 21.77           |                     |
| Channel         |            |         |           | 23017          | 23095             | 23173           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 699.7          | 707.5             | 715.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 24.64          | 24.50             | 24.50           | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.68          | 24.67             | 24.64           |                     |
| 1.4             | QPSK       | 1       | 5         | 24.60          | 24.58             | 24.55           |                     |
| 1.4             | QPSK       | 3       | 0         | 24.67          | 24.60             | 24.62           | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.70          | 24.64             | 24.68           |                     |
| 1.4             | QPSK       | 3       | 3         | 24.64          | 24.67             | 24.61           |                     |
| 1.4             | QPSK       | 6       | 0         | 23.71          | 23.74             | 23.67           | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.99          | 23.93             | 23.96           |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.02          | 24.02             | 23.98           |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.92          | 23.94             | 23.91           | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.75          | 23.69             | 23.69           |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.81          | 23.75             | 23.75           |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.70          | 23.73             | 23.65           | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.78          | 22.80             | 22.76           |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.73          | 22.89             | 22.85           |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.90          | 22.97             | 22.89           | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.82          | 22.85             | 22.81           |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.68          | 22.81             | 22.82           |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.78          | 22.85             | 22.86           | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.83          | 22.83             | 22.79           |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.72          | 21.75             | 21.71           |                     |



| Band 13         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |
| Channel         |            |         |           | 23230          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 782            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.23             |                 | 25.2                |
| 10              | QPSK       | 1       | 25        |                | 24.22             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.35             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.30             |                 | 24.2                |
| 10              | QPSK       | 25      | 12        |                | 23.34             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.33             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.35             |                 | 24.2                |
| 10              | 16QAM      | 1       | 0         |                | 23.56             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 23.57             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.54             |                 | 23.2                |
| 10              | 16QAM      | 25      | 0         |                | 22.31             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.34             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.38             |                 | 23.2                |
| 10              | 16QAM      | 50      | 0         |                | 22.35             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.52             |                 | 22.2                |
| 10              | 64QAM      | 1       | 49        |                | 22.45             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.38             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.38             |                 | 22.2                |
| 10              | 64QAM      | 25      | 25        |                | 21.37             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.39             |                 |                     |
| Channel         |            |         |           | 23205          | 23230             | 23255           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 779.5          | 782               | 784.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.23          | 24.20             | 24.18           | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.26          | 24.27             | 24.23           |                     |
| 5               | QPSK       | 1       | 24        | 24.30          | 24.23             | 24.34           |                     |
| 5               | QPSK       | 12      | 0         | 23.38          | 23.33             | 23.29           | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.41          | 23.32             | 23.31           |                     |
| 5               | QPSK       | 12      | 13        | 23.38          | 23.35             | 23.29           |                     |
| 5               | QPSK       | 25      | 0         | 23.37          | 23.33             | 23.32           | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.51          | 23.48             | 23.52           |                     |
| 5               | 16QAM      | 1       | 12        | 23.50          | 23.47             | 23.47           |                     |
| 5               | 16QAM      | 1       | 24        | 23.59          | 23.51             | 23.49           | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.43          | 22.35             | 22.36           |                     |
| 5               | 16QAM      | 12      | 7         | 22.42          | 22.33             | 22.35           |                     |
| 5               | 16QAM      | 12      | 13        | 22.40          | 22.37             | 22.37           | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.43          | 22.34             | 22.33           |                     |
| 5               | 64QAM      | 1       | 0         | 22.14          | 22.47             | 22.39           |                     |
| 5               | 64QAM      | 1       | 12        | 22.50          | 22.44             | 22.45           | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.47          | 22.47             | 22.39           |                     |
| 5               | 64QAM      | 12      | 0         | 21.47          | 21.41             | 21.37           |                     |
| 5               | 64QAM      | 12      | 7         | 21.47          | 21.37             | 21.42           | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.44          | 21.41             | 21.36           |                     |
| 5               | 64QAM      | 25      | 0         | 21.41          | 21.37             | 21.34           |                     |



| Band 14         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |
| Channel         |            |         |           | 23330          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 793            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         | 24.75          |                   |                 | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.83          |                   |                 |                     |
| 10              | QPSK       | 1       | 49        | 24.57          |                   |                 |                     |
| 10              | QPSK       | 25      | 0         | 23.70          |                   |                 | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.70          |                   |                 |                     |
| 10              | QPSK       | 25      | 25        | 23.71          |                   |                 |                     |
| 10              | QPSK       | 50      | 0         | 23.67          |                   |                 | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.06          |                   |                 |                     |
| 10              | 16QAM      | 1       | 25        | 24.04          |                   |                 |                     |
| 10              | 16QAM      | 1       | 49        | 23.94          |                   |                 | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.67          |                   |                 |                     |
| 10              | 16QAM      | 25      | 12        | 22.68          |                   |                 |                     |
| 10              | 16QAM      | 25      | 25        | 22.70          |                   |                 | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.68          |                   |                 |                     |
| 10              | 64QAM      | 1       | 0         | 22.83          |                   |                 |                     |
| 10              | 64QAM      | 1       | 25        | 22.49          |                   |                 | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.88          |                   |                 |                     |
| 10              | 64QAM      | 25      | 0         | 21.60          |                   |                 |                     |
| 10              | 64QAM      | 25      | 12        | 21.16          |                   |                 | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.16          |                   |                 |                     |
| 10              | 64QAM      | 50      | 0         | 21.36          |                   |                 |                     |
| Channel         |            |         |           | 23306          | 23330             | 23356           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5          | 793               | 795.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.62          | 24.61             | 24.59           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.69          | 24.74             | 24.66           |                     |
| 5               | QPSK       | 1       | 24        | 24.64          | 24.62             | 24.54           |                     |
| 5               | QPSK       | 12      | 0         | 23.71          | 23.68             | 23.65           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.76          | 23.70             | 23.65           |                     |
| 5               | QPSK       | 12      | 13        | 23.70          | 23.69             | 23.63           |                     |
| 5               | QPSK       | 25      | 0         | 23.74          | 23.67             | 23.59           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.93          | 23.96             | 23.90           |                     |
| 5               | 16QAM      | 1       | 12        | 24.00          | 23.98             | 23.93           |                     |
| 5               | 16QAM      | 1       | 24        | 23.99          | 23.90             | 23.89           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.79          | 22.71             | 22.65           |                     |
| 5               | 16QAM      | 12      | 7         | 22.77          | 22.71             | 22.69           |                     |
| 5               | 16QAM      | 12      | 13        | 22.72          | 22.74             | 22.70           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75          | 22.71             | 22.62           |                     |
| 5               | 64QAM      | 1       | 0         | 22.89          | 22.80             | 22.19           |                     |
| 5               | 64QAM      | 1       | 12        | 22.82          | 22.09             | 22.17           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.33          | 21.97             | 22.69           |                     |
| 5               | 64QAM      | 12      | 0         | 21.82          | 21.27             | 20.93           |                     |
| 5               | 64QAM      | 12      | 7         | 21.76          | 21.05             | 21.11           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.44          | 20.88             | 21.93           |                     |
| 5               | 64QAM      | 25      | 0         | 21.56          | 21.03             | 21.17           |                     |



| Band 17         |            |         |           |                |                   |                 |                     |  |  |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|--|--|
| Ant 0           |            |         |           |                |                   |                 |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 23780          | 23790             | 23800           |                     |  |  |
| Frequency (MHz) |            |         |           | 709            | 710               | 711             |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.66          | 24.65             | 24.61           | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.69          | 24.70             | 24.71           |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.75          | 24.80             | 24.72           |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.73          | 23.76             | 23.76           | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.88          | 23.82             | 23.79           |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.88          | 23.88             | 23.88           |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.79          | 23.78             | 23.79           | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 24.00          | 23.99             | 24.01           |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.14          | 24.11             | 24.08           |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 24.12          | 24.10             | 24.09           | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.74          | 22.74             | 22.73           |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.90          | 22.79             | 22.81           |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.89          | 22.90             | 22.82           | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.80          | 22.80             | 22.77           |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.65          | 22.75             | 22.88           |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.71          | 22.71             | 22.85           | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.87          | 22.93             | 22.76           |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.49          | 21.50             | 21.47           |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.61          | 21.54             | 21.52           | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 21.65          | 21.76             | 21.84           |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.62          | 21.68             | 21.62           |                     |  |  |
| Channel         |            |         |           | 23755          | 23790             | 23825           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 708.5          | 710               | 713.5           |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.66          | 24.66             | 24.68           | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.74          | 24.79             | 24.75           |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.79          | 24.79             | 24.78           |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.76          | 23.76             | 23.79           | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.85          | 23.81             | 23.82           |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.83          | 23.86             | 23.83           |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.81          | 23.79             | 23.82           | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 23.99          | 23.98             | 23.99           |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 24.02          | 24.06             | 24.04           |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 24.13          | 24.14             | 24.10           | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.79          | 22.83             | 22.81           |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.89          | 22.86             | 22.89           |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.84          | 22.96             | 22.94           | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.85          | 22.83             | 22.87           |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.40          | 22.44             | 22.79           |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.78          | 22.60             | 22.94           | 23.7                |  |  |
| 5               | 64QAM      | 1       | 24        | 22.59          | 22.57             | 22.67           |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.61          | 21.45             | 21.75           |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.73          | 21.52             | 21.89           | 22.7                |  |  |
| 5               | 64QAM      | 12      | 13        | 21.65          | 21.58             | 21.88           |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.55          | 21.51             | 21.79           |                     |  |  |



| Band 25         |            |         |           |                |                   |                 |                     |                     |  |  |  |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|---------------------|--|--|--|
| Ant 2           |            |         |           |                |                   |                 |                     |                     |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power          |                   |                 | Tune-up limit (dBm) |                     |  |  |  |
|                 |            |         |           | Low Ch / 26140 | Middle Ch / 26340 | High Ch / 26590 |                     |                     |  |  |  |
| Channel         |            |         |           |                |                   |                 |                     |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1850           | 1880              | 1910            |                     |                     |  |  |  |
| 20              | QPSK       | 1       | 0         | 24.65          | 24.76             | 24.91           | 25.7                |                     |  |  |  |
| 20              | QPSK       | 1       | 49        | 24.64          | 24.72             | 24.82           |                     |                     |  |  |  |
| 20              | QPSK       | 1       | 99        | 24.61          | 24.75             | 24.23           |                     |                     |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.71          | 23.86             | 23.94           | 24.7                |                     |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.80          | 23.95             | 24.01           |                     |                     |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.81          | 23.92             | 23.97           |                     |                     |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.95          | 24.06             | 24.19           | 24.7                |                     |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.98          | 24.09             | 24.15           |                     |                     |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.99          | 24.08             | 23.60           |                     |                     |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.72          | 22.85             | 22.96           | 23.7                |                     |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.80          | 22.96             | 22.98           |                     |                     |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.76          | 22.93             | 23.05           |                     |                     |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.78          | 22.93             | 22.94           | 22.7                |                     |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.86          | 22.94             | 22.43           |                     |                     |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.70          | 22.91             | 22.54           |                     |                     |  |  |  |
| 20              | 64QAM      | 1       | 99        | 22.42          | 22.97             | 21.74           | 22.7                |                     |  |  |  |
| 20              | 64QAM      | 50      | 0         | 21.75          | 21.89             | 21.33           |                     |                     |  |  |  |
| 20              | 64QAM      | 50      | 24        | 21.66          | 22.01             | 21.58           |                     |                     |  |  |  |
| 20              | 64QAM      | 50      | 50        | 21.43          | 21.95             | 21.32           | 22.7                |                     |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.70          | 21.95             | 21.16           |                     |                     |  |  |  |
| Channel         |            |         |           | 26115          | 26340             | 26615           |                     | Tune-up limit (dBm) |  |  |  |
| Frequency (MHz) |            |         |           | 1857.5         | 1880              | 1907.5          |                     |                     |  |  |  |
| 15              | QPSK       | 1       | 0         | 24.65          | 24.77             | 24.86           | 25.7                |                     |  |  |  |
| 15              | QPSK       | 1       | 37        | 24.65          | 24.76             | 24.88           |                     |                     |  |  |  |
| 15              | QPSK       | 1       | 74        | 24.63          | 24.77             | 24.32           |                     |                     |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.72          | 23.86             | 23.96           | 24.7                |                     |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.79          | 23.95             | 24.07           |                     |                     |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.74          | 23.89             | 23.93           |                     |                     |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.77          | 23.94             | 23.96           | 24.7                |                     |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.93          | 24.07             | 24.15           |                     |                     |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.97          | 24.09             | 24.18           |                     |                     |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.92          | 24.10             | 23.69           | 23.7                |                     |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.73          | 22.87             | 22.98           |                     |                     |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.78          | 22.96             | 23.06           |                     |                     |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.72          | 22.90             | 23.02           | 22.7                |                     |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.77          | 22.94             | 22.98           |                     |                     |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.83          | 22.92             | 22.34           |                     |                     |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.88          | 22.97             | 22.77           | 23.7                |                     |  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.42          | 22.97             | 21.81           |                     |                     |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.77          | 21.82             | 21.56           |                     |                     |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.82          | 21.96             | 21.69           | 22.7                |                     |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.58          | 21.93             | 21.28           |                     |                     |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.79          | 21.95             | 21.27           |                     |                     |  |  |  |
| Channel         |            |         |           | 26090          | 26340             | 26640           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1855           | 1880              | 1910            |                     |                     |  |  |  |
| 10              | QPSK       | 1       | 0         | 24.65          | 24.70             | 24.89           | 25.7                |                     |  |  |  |
| 10              | QPSK       | 1       | 25        | 24.55          | 24.70             | 24.90           |                     |                     |  |  |  |
| 10              | QPSK       | 1       | 49        | 24.60          | 24.75             | 24.20           |                     |                     |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.74          | 23.81             | 23.94           | 24.7                |                     |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.79          | 23.93             | 24.00           |                     |                     |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.79          | 23.93             | 23.65           |                     |                     |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.78          | 23.93             | 23.95           | 24.7                |                     |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.98          | 24.12             | 24.22           |                     |                     |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.98          | 24.13             | 24.27           |                     |                     |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.98          | 24.13             | 23.58           | 23.7                |                     |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.76          | 22.83             | 22.96           |                     |                     |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.80          | 22.95             | 22.97           |                     |                     |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.76          | 22.90             | 22.84           | 22.7                |                     |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.78          | 22.91             | 22.97           |                     |                     |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.91          | 22.95             | 22.66           |                     |                     |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.82          | 23.05             | 22.33           | 22.7                |                     |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.81          | 23.07             | 21.74           |                     |                     |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.79          | 21.82             | 21.62           |                     |                     |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.84          | 21.96             | 21.46           | 22.7                |                     |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.82          | 21.93             | 21.00           |                     |                     |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.76          | 21.94             | 21.20           |                     |                     |  |  |  |
| Channel         |            |         |           | 26055          | 26340             | 26675           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1852.5         | 1880              | 1912.5          |                     |                     |  |  |  |
| 5               | QPSK       | 1       | 0         | 24.60          | 24.72             | 24.90           | 25.7                |                     |  |  |  |
| 5               | QPSK       | 1       | 12        | 24.65          | 24.84             | 24.43           |                     |                     |  |  |  |
| 5               | QPSK       | 1       | 24        | 24.64          | 24.80             | 24.08           |                     |                     |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.72          | 23.83             | 23.86           | 24.7                |                     |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.79          | 23.91             | 23.61           |                     |                     |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.78          | 23.94             | 23.38           |                     |                     |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.74          | 23.90             | 23.55           | 24.7                |                     |  |  |  |
| 5               | 16QAM      | 1       | 0         | 24.03          | 24.05             | 24.22           |                     |                     |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.94          | 24.12             | 23.81           |                     |                     |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.97          | 24.15             | 23.46           | 24.7                |                     |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.74          | 22.86             | 22.99           |                     |                     |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.81          | 22.95             | 22.77           |                     |                     |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.82          | 22.96             | 22.55           | 23.7                |                     |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.79          | 22.90             | 22.73           |                     |                     |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.86          | 23.00             | 22.35           |                     |                     |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.84          | 23.00             | 21.93           | 23.7                |                     |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.86          | 23.03             | 21.55           |                     |                     |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.76          | 21.82             | 21.17           |                     |                     |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.84          | 21.99             | 21.00           | 22.7                |                     |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.88          | 22.00             | 20.74           |                     |                     |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.81          | 21.93             | 20.87           |                     |                     |  |  |  |
| Channel         |            |         |           | 26055          | 26340             | 26675           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1851.5         | 1880              | 1913.5          |                     |                     |  |  |  |
| 3               | QPSK       | 1       | 0         | 24.54          | 24.63             | 24.53           | 25.7                |                     |  |  |  |
| 3               | QPSK       | 1       | 8         | 24.69          | 24.83             | 24.34           |                     |                     |  |  |  |
| 3               | QPSK       | 1       | 14        | 24.67          | 24.83             | 24.09           |                     |                     |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.69          | 23.80             | 23.60           | 24.7                |                     |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.78          | 23.90             | 23.48           |                     |                     |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.75          | 23.89             | 23.37           |                     |                     |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.72          | 23.90             | 23.43           | 24.7                |                     |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.90          | 23.95             | 23.83           |                     |                     |  |  |  |
| 3               | 16QAM      | 1       | 8         | 24.00          | 24.20             | 23.68           |                     |                     |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.99          | 24.15             | 23.42           | 23.7                |                     |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.76          | 22.89             | 22.72           |                     |                     |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.82          | 22.96             | 22.61           |                     |                     |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.81          | 22.99             | 22.48           | 22.7                |                     |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.79          | 22.91             | 22.56           |                     |                     |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.80          | 22.87             | 21.94           |                     |                     |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.93          | 23.11             | 21.80           | 22.7                |                     |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.90          | 23.08             | 21.57           |                     |                     |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.76          | 21.90             | 20.85           |                     |                     |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.84          | 22.00             | 20.77           | 22.7                |                     |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.83          | 21.99             | 20.64           |                     |                     |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.79          | 21.92             | 20.73           |                     |                     |  |  |  |
| Channel         |            |         |           | 26047          | 26340             | 26683           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1850.7         | 1880              | 1914.3          |                     |                     |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.51          | 24.66             | 24.19           | 25.7                |                     |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.62          | 24.74             | 24.13           |                     |                     |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.59          | 24.76             | 24.02           |                     |                     |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.56          | 24.71             | 24.13           | 24.7                |                     |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.63          | 24.77             | 24.14           | 24.7                |                     |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.59          | 24.77             | 24.07           |                     |                     |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.67          | 23.83             | 23.31           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.80          | 23.98             | 24.28           | 24.7                |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.83          | 24.12             | 23.67           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.94          | 24.09             | 23.36           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.80          | 23.77             | 23.31           | 24.7                |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.70          | 23.85             | 23.31           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.65          | 23.82             | 23.22           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.73          | 22.90             | 22.41           | 23.7                |                     |  |  |  |
| 1.4             | 16QAM      | 6       | 1         | 22.77          | 22.91             | 21.82           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.85          | 23.04             | 21.95           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.79          | 22.99             | 22.00           | 23.7                |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.80          | 22.97             | 21.78           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 5         | 22.78          | 22.96             | 21.73           |                     |                     |  |  |  |



| Band 26         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26785          | 26865             | 26955           |                     |
| Frequency (MHz) |            |         |           | 821.5          | 831.5             | 841.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.76          | 24.52             | 24.57           | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.46          | 24.51             | 24.50           |                     |
| 15              | QPSK       | 1       | 74        | 24.49          | 24.48             | 24.27           |                     |
| 15              | QPSK       | 36      | 0         | 23.67          | 23.65             | 23.65           | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.66          | 23.61             | 23.63           |                     |
| 15              | QPSK       | 36      | 39        | 23.60          | 23.63             | 23.64           |                     |
| 15              | QPSK       | 75      | 0         | 23.68          | 23.60             | 23.62           | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.93          | 23.86             | 23.88           |                     |
| 15              | 16QAM      | 1       | 37        | 23.82          | 23.86             | 23.85           |                     |
| 15              | 16QAM      | 1       | 74        | 23.81          | 23.85             | 23.82           | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.63          | 22.66             | 22.67           |                     |
| 15              | 16QAM      | 36      | 20        | 22.65          | 22.61             | 22.60           |                     |
| 15              | 16QAM      | 36      | 39        | 22.59          | 22.65             | 22.62           | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.67          | 22.62             | 22.65           |                     |
| 15              | 64QAM      | 1       | 0         | 22.78          | 22.72             | 22.72           | 22.7                |
| 15              | 64QAM      | 1       | 37        | 22.70          | 22.80             | 22.76           |                     |
| 15              | 64QAM      | 1       | 74        | 22.69          | 22.72             | 22.70           |                     |
| 15              | 64QAM      | 36      | 0         | 21.68          | 21.69             | 21.72           | 22.7                |
| 15              | 64QAM      | 36      | 20        | 21.69          | 21.63             | 21.65           |                     |
| 15              | 64QAM      | 36      | 39        | 21.65          | 21.71             | 21.58           |                     |
| 15              | 64QAM      | 75      | 0         | 21.69          | 21.63             | 21.63           | Tune-up limit (dBm) |
| Channel         |            |         |           | 26740          | 26865             | 26959           |                     |
| Frequency (MHz) |            |         |           | 810            | 831.5             | 844             |                     |
| 10              | QPSK       | 1       | 0         | 24.72          | 24.50             | 24.80           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.57          | 24.55             | 24.59           |                     |
| 10              | QPSK       | 1       | 49        | 24.60          | 24.64             | 24.38           |                     |
| 10              | QPSK       | 25      | 0         | 23.74          | 23.66             | 23.68           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.76          | 23.66             | 23.65           |                     |
| 10              | QPSK       | 25      | 25        | 23.65          | 23.68             | 23.67           |                     |
| 10              | QPSK       | 50      | 0         | 23.70          | 23.65             | 23.66           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.07          | 23.98             | 23.98           |                     |
| 10              | 16QAM      | 1       | 25        | 23.94          | 24.01             | 23.97           |                     |
| 10              | 16QAM      | 1       | 49        | 23.97          | 24.02             | 23.73           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.74          | 22.89             | 22.66           |                     |
| 10              | 16QAM      | 25      | 12        | 22.76          | 22.71             | 22.67           |                     |
| 10              | 16QAM      | 25      | 25        | 22.64          | 22.63             | 22.63           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.72          | 22.66             | 22.63           |                     |
| 10              | 64QAM      | 1       | 0         | 22.84          | 22.78             | 22.88           | 23.7                |
| 10              | 64QAM      | 1       | 25        | 22.90          | 22.93             | 22.93           |                     |
| 10              | 64QAM      | 1       | 49        | 22.89          | 22.91             | 21.83           |                     |
| 10              | 64QAM      | 25      | 0         | 21.80          | 21.71             | 21.72           | 22.7                |
| 10              | 64QAM      | 25      | 12        | 21.78          | 21.69             | 21.72           |                     |
| 10              | 64QAM      | 25      | 25        | 21.68          | 21.70             | 21.21           |                     |
| 10              | 64QAM      | 50      | 0         | 21.72          | 21.68             | 21.50           | Tune-up limit (dBm) |
| Channel         |            |         |           | 26715          | 26865             | 27015           |                     |
| Frequency (MHz) |            |         |           | 816.5          | 831.5             | 846.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.75          | 24.61             | 24.68           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72          | 24.63             | 24.47           |                     |
| 5               | QPSK       | 1       | 24        | 24.56          | 24.64             | 24.43           |                     |
| 5               | QPSK       | 12      | 0         | 23.79          | 23.72             | 23.74           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.80          | 23.72             | 23.57           |                     |
| 5               | QPSK       | 12      | 13        | 23.71          | 23.67             | 23.31           |                     |
| 5               | QPSK       | 25      | 0         | 23.76          | 23.67             | 23.64           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.09          | 23.94             | 23.99           |                     |
| 5               | 16QAM      | 1       | 12        | 24.00          | 23.97             | 23.85           |                     |
| 5               | 16QAM      | 1       | 24        | 23.91          | 24.01             | 23.71           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.84          | 22.72             | 22.73           |                     |
| 5               | 16QAM      | 12      | 7         | 22.81          | 22.76             | 22.71           |                     |
| 5               | 16QAM      | 12      | 13        | 22.73          | 22.66             | 22.44           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.78          | 22.66             | 22.72           |                     |
| 5               | 64QAM      | 1       | 0         | 22.69          | 22.59             | 22.83           | 23.7                |
| 5               | 64QAM      | 1       | 12        | 22.60          | 22.36             | 22.03           |                     |
| 5               | 64QAM      | 1       | 24        | 22.81          | 22.89             | 21.86           |                     |
| 5               | 64QAM      | 12      | 0         | 21.83          | 21.78             | 21.45           | 22.7                |
| 5               | 64QAM      | 12      | 7         | 21.84          | 21.81             | 21.00           |                     |
| 5               | 64QAM      | 12      | 13        | 21.74          | 21.78             | 20.80           |                     |
| 5               | 64QAM      | 25      | 0         | 21.77          | 21.68             | 20.99           | Tune-up limit (dBm) |
| Channel         |            |         |           | 26706          | 26865             | 27025           |                     |
| Frequency (MHz) |            |         |           | 815.5          | 831.5             | 847.5           |                     |
| 3               | QPSK       | 1       | 0         | 24.72          | 24.62             | 24.52           | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.75          | 24.69             | 24.16           |                     |
| 3               | QPSK       | 1       | 14        | 24.63          | 24.66             | 24.26           |                     |
| 3               | QPSK       | 8       | 0         | 23.83          | 23.68             | 23.39           | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.77          | 23.72             | 23.28           |                     |
| 3               | QPSK       | 8       | 7         | 23.74          | 23.70             | 23.29           |                     |
| 3               | QPSK       | 15      | 0         | 23.78          | 23.67             | 23.30           | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.09          | 23.91             | 23.81           |                     |
| 3               | 16QAM      | 1       | 8         | 24.06          | 24.06             | 23.47           |                     |
| 3               | 16QAM      | 1       | 14        | 23.95          | 23.96             | 23.55           | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.86          | 22.77             | 22.54           |                     |
| 3               | 16QAM      | 8       | 4         | 22.88          | 22.77             | 22.42           |                     |
| 3               | 16QAM      | 8       | 7         | 22.78          | 22.76             | 22.45           | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.78          | 22.70             | 22.47           |                     |
| 3               | 64QAM      | 1       | 0         | 22.72          | 22.83             | 22.00           | 23.7                |
| 3               | 64QAM      | 1       | 8         | 23.03          | 22.95             | 21.88           |                     |
| 3               | 64QAM      | 1       | 14        | 22.86          | 22.90             | 21.83           |                     |
| 3               | 64QAM      | 8       | 0         | 21.79          | 21.74             | 20.85           | 22.7                |
| 3               | 64QAM      | 8       | 4         | 21.88          | 21.81             | 20.77           |                     |
| 3               | 64QAM      | 8       | 7         | 21.81          | 21.72             | 20.92           |                     |
| 3               | 64QAM      | 15      | 0         | 21.81          | 21.67             | 20.86           | Tune-up limit (dBm) |
| Channel         |            |         |           | 26687          | 26865             | 27033           |                     |
| Frequency (MHz) |            |         |           | 814.7          | 831.5             | 848.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 24.68          | 24.52             | 24.13           | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.71          | 24.63             | 24.26           |                     |
| 1.4             | QPSK       | 1       | 5         | 24.61          | 24.55             | 24.29           |                     |
| 1.4             | QPSK       | 3       | 0         | 24.69          | 24.55             | 24.17           | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.74          | 24.58             | 24.22           |                     |
| 1.4             | QPSK       | 3       | 3         | 24.67          | 24.55             | 24.37           |                     |
| 1.4             | QPSK       | 6       | 0         | 23.71          | 23.63             | 23.29           | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 24.01          | 23.86             | 23.45           |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.04          | 23.98             | 23.59           |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.93          | 23.86             | 23.65           | 23.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.75          | 23.65             | 23.27           |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.79          | 23.65             | 23.32           |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.71          | 23.67             | 23.46           | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.82          | 22.75             | 22.46           |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.74          | 22.76             | 21.86           |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.88          | 22.89             | 21.90           | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.86          | 22.78             | 21.85           |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.76          | 22.73             | 21.85           |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.82          | 22.82             | 21.93           | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.84          | 22.79             | 21.86           |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.65          | 21.68             | 20.87           |                     |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 2           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |
| Channel         |            |         |           | 27710          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 2310           |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 23.02             |                 | 23.7                |
| 10              | QPSK       | 1       | 25        |                | 23.01             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 22.92             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 21.96             |                 | 22.7                |
| 10              | QPSK       | 25      | 12        |                | 22.00             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 22.11             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 22.00             |                 | 22.7                |
| 10              | 16QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 22.28             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 22.31             |                 | 21.7                |
| 10              | 16QAM      | 25      | 0         |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 21.11             |                 | 21.7                |
| 10              | 16QAM      | 50      | 0         |                | 20.98             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 21.18             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 21.21             |                 | 21.7                |
| 10              | 64QAM      | 1       | 49        |                | 21.22             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.98             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 20.04             |                 | 20.7                |
| 10              | 64QAM      | 25      | 25        |                | 20.13             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 20.02             |                 |                     |
| Channel         |            |         |           | 27685          | 27710             | 27735           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5         | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 22.86          | 22.86             | 22.88           | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.99          | 23.01             | 22.99           |                     |
| 5               | QPSK       | 1       | 24        | 23.01          | 23.00             | 22.96           |                     |
| 5               | QPSK       | 12      | 0         | 22.02          | 21.96             | 21.97           | 22.7                |
| 5               | QPSK       | 12      | 7         | 22.08          | 22.07             | 22.05           |                     |
| 5               | QPSK       | 12      | 13        | 22.06          | 22.06             | 22.03           |                     |
| 5               | QPSK       | 25      | 0         | 22.04          | 21.99             | 22.00           | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.17          | 22.16             | 22.19           |                     |
| 5               | 16QAM      | 1       | 12        | 22.26          | 22.25             | 22.21           |                     |
| 5               | 16QAM      | 1       | 24        | 22.32          | 22.32             | 22.30           | 21.7                |
| 5               | 16QAM      | 12      | 0         | 21.06          | 21.01             | 21.03           |                     |
| 5               | 16QAM      | 12      | 7         | 21.09          | 21.09             | 21.09           |                     |
| 5               | 16QAM      | 12      | 13        | 21.07          | 21.10             | 21.06           | 21.7                |
| 5               | 16QAM      | 25      | 0         | 21.05          | 21.02             | 21.02           |                     |
| 5               | 64QAM      | 1       | 0         | 21.11          | 21.14             | 21.15           |                     |
| 5               | 64QAM      | 1       | 12        | 21.19          | 21.20             | 21.16           | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.25          | 21.22             | 21.22           |                     |
| 5               | 64QAM      | 12      | 0         | 20.09          | 20.02             | 20.07           |                     |
| 5               | 64QAM      | 12      | 7         | 20.15          | 20.15             | 20.10           | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.11          | 20.11             | 20.10           |                     |
| 5               | 64QAM      | 25      | 0         | 20.10          | 20.01             | 20.03           |                     |



| Band 66         |            |         |           |                |                   |                 |                     |  |  |  |  |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|--|--|--|--|
| Ant 2           |            |         |           |                |                   |                 |                     |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 132072         | 132322            | 132572          |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 1720           | 1745              | 1770            |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 24.35          | 24.39             | 24.57           | 25.7                |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 24.22          | 24.27             | 24.30           |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 24.34          | 24.32             | 24.26           |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.40          | 23.47             | 23.49           | 24.7                |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.46          | 23.43             | 23.47           |                     |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.47          | 23.48             | 23.50           |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.46          | 23.40             | 23.47           | 24.7                |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.67          | 23.74             | 23.76           |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.56          | 23.64             | 23.63           |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.70          | 23.64             | 23.60           | 23.7                |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.37          | 22.48             | 22.54           |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.46          | 22.43             | 22.47           |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.44          | 22.47             | 22.51           | 23.7                |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.44          | 22.41             | 22.48           |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.46          | 22.43             | 22.61           |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.44          | 22.57             | 22.12           | 23.7                |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 22.58          | 22.59             | 22.49           |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 21.39          | 21.48             | 21.51           |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 21.45          | 21.45             | 21.31           | 22.7                |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 21.45          | 21.49             | 21.54           |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.49          | 21.46             | 21.48           |                     |  |  |  |  |
| Channel         |            |         |           | 132047         | 132322            | 132597          | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1717.5         | 1745              | 1772.5          |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 24.20          | 24.41             | 24.38           | 25.7                |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 24.21          | 24.29             | 24.33           |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 24.34          | 24.36             | 24.31           |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.37          | 23.44             | 23.49           | 24.7                |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.43          | 23.43             | 23.47           |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.42          | 23.48             | 23.52           |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.44          | 23.43             | 23.47           | 24.7                |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.60          | 23.74             | 23.73           |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.56          | 23.63             | 23.68           |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.64          | 23.66             | 23.65           | 23.7                |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.36          | 22.46             | 22.49           |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.42          | 22.40             | 22.45           |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.42          | 22.46             | 22.50           | 23.7                |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.46          | 22.41             | 22.45           |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.46          | 22.59             | 22.58           |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.47          | 22.56             | 22.44           | 23.7                |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.55          | 22.58             | 22.57           |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.38          | 21.49             | 21.21           |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.43          | 21.44             | 21.46           | 22.7                |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.45          | 21.50             | 21.52           |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.44          | 21.42             | 21.47           |                     |  |  |  |  |
| Channel         |            |         |           | 132022         | 132322            | 132622          | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1715           | 1745              | 1775            |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 24.37          | 24.44             | 24.45           | 25.7                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 24.30          | 24.40             | 24.44           |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 24.30          | 24.39             | 24.41           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.41          | 23.46             | 23.49           | 24.7                |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.45          | 23.49             | 23.49           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.44          | 23.50             | 23.57           |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.46          | 23.47             | 23.48           | 24.7                |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.72          | 23.82             | 23.84           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.70          | 23.79             | 23.81           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.73          | 23.76             | 23.81           | 23.7                |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.48          | 22.47             | 22.50           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.48          | 22.47             | 22.52           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.41          | 22.50             | 22.55           | 23.7                |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.45          | 22.46             | 22.48           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.37          | 22.61             | 22.08           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.61          | 22.71             | 22.76           | 23.7                |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.61          | 22.67             | 22.72           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.45          | 21.49             | 21.49           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.48          | 21.51             | 21.55           | 22.7                |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.45          | 21.53             | 21.60           |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.47          | 21.49             | 21.52           |                     |  |  |  |  |
| Channel         |            |         |           | 131997         | 132322            | 132697          | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1712.5         | 1745              | 1772.5          |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 24.35          | 24.40             | 24.40           | 25.7                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 24.39          | 24.49             | 24.52           |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 24.33          | 24.43             | 24.46           |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.44          | 23.46             | 23.59           | 24.7                |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.47          | 23.56             | 23.59           |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.44          | 23.53             | 23.57           |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.43          | 23.45             | 23.55           | 24.7                |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.75          | 23.73             | 23.80           |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.73          | 23.81             | 23.84           |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.67          | 23.76             | 23.80           | 23.7                |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.46          | 22.51             | 22.62           |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.50          | 22.61             | 22.64           |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.47          | 22.57             | 22.58           | 23.7                |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.46          | 22.48             | 22.59           |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.41          | 22.71             | 22.81           |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.64          | 22.73             | 22.77           | 23.7                |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.65          | 22.75             | 22.73           |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.47          | 21.53             | 21.64           |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.53          | 21.61             | 21.64           | 22.7                |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.49          | 21.55             | 21.60           |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.44          | 21.49             | 21.59           |                     |  |  |  |  |
| Channel         |            |         |           | 131987         | 132322            | 132657          | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1711.5         | 1745              | 1776.5          |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 24.38          | 24.42             | 24.50           | 25.7                |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 24.40          | 24.52             | 24.56           |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 24.35          | 24.45             | 24.48           |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.45          | 23.49             | 23.55           | 24.7                |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.47          | 23.53             | 23.57           |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.43          | 23.52             | 23.54           |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.44          | 23.49             | 23.57           | 24.7                |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.70          | 23.70             | 23.82           |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 23.76          | 23.83             | 23.87           |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.66          | 23.76             | 23.81           | 23.7                |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.50          | 22.53             | 22.65           |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.55          | 22.61             | 22.63           |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.51          | 22.56             | 22.59           | 23.7                |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.47          | 22.49             | 22.58           |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.40          | 22.69             | 22.78           |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.70          | 22.83             | 22.81           | 23.7                |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.67          | 22.73             | 22.75           |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.39          | 21.53             | 21.65           |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.53          | 21.64             | 21.66           | 22.7                |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.50          | 21.56             | 21.58           |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.48          | 21.49             | 21.62           |                     |  |  |  |  |
| Channel         |            |         |           | 131979         | 132322            | 132685          | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1710.7         | 1745              | 1779.3          |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.27          | 24.39             | 24.43           | 25.7                |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.30          | 24.40             | 24.49           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.22          | 24.37             | 24.41           |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.33          | 24.43             | 24.44           | 24.7                |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.35          | 24.47             | 24.48           |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.27          | 24.36             | 24.42           |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.38          | 23.43             | 23.48           | 24.7                |  |  |  |  |
| 1.4             | QPSK       | 6       | 1         | 23.59          | 23.73             | 23.75           |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 3         | 23.65          | 23.80             | 23.83           |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.59          | 23.71             | 23.76           | 24.7                |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.40          | 23.55             | 23.53           |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.46          | 23.57             | 23.55           |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.36          | 23.50             | 23.50           | 23.7                |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.44          | 21.83             | 22.58           |                     |  |  |  |  |
| 1.4             | 16QAM      | 6       | 1         | 21.79          | 21.82             | 21.85           |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.41          | 21.72             | 22.74           | 23.7                |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.41          | 21.82             | 22.67           |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.43          | 21.79             | 22.61           |                     |  |  |  |  |





| Band 71         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222         | 133322            | 133372          |                     |
| Frequency (MHz) |            |         |           | 673            | 683               | 688             |                     |
| 20              | QPSK       | 1       | 0         | 24.77          | 24.67             | 24.68           | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.65          | 24.65             | 24.65           |                     |
| 20              | QPSK       | 1       | 99        | 24.68          | 24.66             | 24.61           |                     |
| 20              | QPSK       | 50      | 0         | 23.76          | 23.76             | 23.72           | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.80          | 23.74             | 23.73           |                     |
| 20              | QPSK       | 50      | 50        | 23.84          | 23.78             | 23.75           |                     |
| 20              | QPSK       | 100     | 0         | 23.79          | 23.71             | 23.77           | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.06          | 23.96             | 24.00           |                     |
| 20              | 16QAM      | 1       | 49        | 24.01          | 24.03             | 24.04           |                     |
| 20              | 16QAM      | 1       | 99        | 24.03          | 24.01             | 23.95           | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.77          | 22.75             | 22.75           |                     |
| 20              | 16QAM      | 50      | 24        | 22.82          | 22.77             | 22.73           |                     |
| 20              | 16QAM      | 50      | 50        | 22.82          | 22.77             | 22.76           | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.79          | 22.73             | 22.78           |                     |
| 20              | 64QAM      | 1       | 0         | 22.04          | 22.83             | 22.82           |                     |
| 20              | 64QAM      | 1       | 49        | 22.63          | 22.90             | 22.29           | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.94          | 22.89             | 22.87           |                     |
| 20              | 64QAM      | 50      | 0         | 21.00          | 21.79             | 21.49           |                     |
| 20              | 64QAM      | 50      | 24        | 21.30          | 21.64             | 21.57           | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.84          | 21.60             | 21.74           |                     |
| 20              | 64QAM      | 100     | 0         | 21.53          | 21.76             | 21.80           |                     |
| Channel         |            |         |           | 133197         | 133297            | 133397          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 680.5          | 680.5             | 680.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.74          | 24.65             | 24.63           | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.62          | 24.66             | 24.61           |                     |
| 15              | QPSK       | 1       | 74        | 24.65          | 24.68             | 24.64           |                     |
| 15              | QPSK       | 36      | 0         | 23.73          | 23.71             | 23.69           | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.80          | 23.73             | 23.78           |                     |
| 15              | QPSK       | 36      | 39        | 23.73          | 23.76             | 23.74           |                     |
| 15              | QPSK       | 75      | 0         | 23.81          | 23.74             | 23.68           | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.05          | 24.01             | 23.98           |                     |
| 15              | 16QAM      | 1       | 37        | 23.95          | 24.02             | 24.00           |                     |
| 15              | 16QAM      | 1       | 74        | 23.97          | 24.00             | 23.98           | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.76          | 22.75             | 22.71           |                     |
| 15              | 16QAM      | 36      | 20        | 22.79          | 22.74             | 22.79           |                     |
| 15              | 16QAM      | 36      | 39        | 22.77          | 22.79             | 22.76           | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.63          | 22.73             | 22.70           |                     |
| 15              | 64QAM      | 1       | 0         | 22.02          | 22.43             | 22.76           |                     |
| 15              | 64QAM      | 1       | 37        | 21.86          | 22.94             | 22.88           | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.88          | 22.60             | 22.84           |                     |
| 15              | 64QAM      | 36      | 0         | 20.97          | 21.77             | 21.44           |                     |
| 15              | 64QAM      | 36      | 20        | 20.94          | 21.76             | 21.81           | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.48          | 21.56             | 21.78           |                     |
| 15              | 64QAM      | 75      | 0         | 21.29          | 21.75             | 21.67           |                     |
| Channel         |            |         |           | 133172         | 133272            | 133422          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668            | 678               | 693             |                     |
| 10              | QPSK       | 1       | 0         | 24.76          | 24.64             | 24.66           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.61          | 24.62             | 24.63           |                     |
| 10              | QPSK       | 1       | 49        | 24.66          | 24.71             | 24.62           |                     |
| 10              | QPSK       | 25      | 0         | 23.78          | 23.71             | 23.69           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.79          | 23.82             | 23.70           |                     |
| 10              | QPSK       | 25      | 25        | 23.72          | 23.78             | 23.74           |                     |
| 10              | QPSK       | 50      | 0         | 23.80          | 23.81             | 23.71           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.10          | 24.02             | 24.04           |                     |
| 10              | 16QAM      | 1       | 25        | 23.98          | 24.06             | 24.00           |                     |
| 10              | 16QAM      | 1       | 49        | 23.98          | 24.07             | 23.96           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.76          | 22.70             | 22.68           |                     |
| 10              | 16QAM      | 25      | 12        | 22.78          | 22.81             | 22.68           |                     |
| 10              | 16QAM      | 25      | 25        | 22.65          | 22.77             | 22.73           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.79          | 22.80             | 22.69           |                     |
| 10              | 64QAM      | 1       | 0         | 21.80          | 22.50             | 22.77           |                     |
| 10              | 64QAM      | 1       | 25        | 22.01          | 22.95             | 22.95           | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.14          | 22.98             | 22.45           |                     |
| 10              | 64QAM      | 25      | 0         | 20.82          | 21.71             | 21.71           |                     |
| 10              | 64QAM      | 25      | 12        | 20.84          | 21.84             | 21.76           | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.71          | 21.81             | 21.64           |                     |
| 10              | 64QAM      | 50      | 0         | 20.63          | 21.77             | 21.69           |                     |
| Channel         |            |         |           | 133147         | 133247            | 133347          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5          | 675.5             | 685.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.57          | 24.60             | 24.72           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.71          | 24.68             | 24.70           |                     |
| 5               | QPSK       | 1       | 24        | 24.70          | 24.68             | 24.63           |                     |
| 5               | QPSK       | 12      | 0         | 23.73          | 23.76             | 23.74           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.84          | 23.79             | 23.76           |                     |
| 5               | QPSK       | 12      | 13        | 23.76          | 23.76             | 23.70           |                     |
| 5               | QPSK       | 25      | 0         | 23.76          | 23.76             | 23.68           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.75          | 24.01             | 24.02           |                     |
| 5               | 16QAM      | 1       | 12        | 23.97          | 24.03             | 23.97           |                     |
| 5               | 16QAM      | 1       | 24        | 23.95          | 24.02             | 23.93           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64          | 22.80             | 22.78           |                     |
| 5               | 16QAM      | 12      | 7         | 22.86          | 22.80             | 22.78           |                     |
| 5               | 16QAM      | 12      | 13        | 22.77          | 22.77             | 22.70           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.69          | 22.81             | 22.70           |                     |
| 5               | 64QAM      | 1       | 0         | 21.74          | 22.06             | 22.91           |                     |
| 5               | 64QAM      | 1       | 12        | 21.79          | 22.94             | 22.70           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.96          | 22.96             | 22.25           |                     |
| 5               | 64QAM      | 12      | 0         | 20.82          | 21.49             | 21.68           |                     |
| 5               | 64QAM      | 12      | 7         | 21.00          | 21.86             | 21.75           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.99          | 21.81             | 21.61           |                     |
| 5               | 64QAM      | 25      | 0         | 20.76          | 21.59             | 21.48           |                     |



| Band 2          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. I | Power Middle Ch. J | Power High Ch. K | Tune-up limit (dBm) |
| Channel         |            |         |           | 18700           | 18900              | 19100            |                     |
| Frequency (MHz) |            |         |           | 18600           | 18800              | 19000            |                     |
| 20              | QPSK       | 1       | 0         | 24.72           | 24.80              | 24.91            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.67           | 24.74              | 24.77            |                     |
| 20              | QPSK       | 1       | 99        | 24.64           | 24.71              | 24.79            |                     |
| 20              | QPSK       | 50      | 0         | 23.78           | 23.84              | 23.88            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.87           | 23.96              | 23.91            |                     |
| 20              | QPSK       | 50      | 50        | 23.88           | 23.94              | 23.99            |                     |
| 20              | QPSK       | 100     | 0         | 23.86           | 23.87              | 23.94            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.10           | 24.10              | 24.20            |                     |
| 20              | 16QAM      | 1       | 49        | 24.03           | 24.08              | 24.18            |                     |
| 20              | 16QAM      | 1       | 99        | 23.93           | 24.12              | 24.12            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.80           | 22.85              | 22.86            |                     |
| 20              | 16QAM      | 50      | 24        | 22.89           | 22.87              | 22.94            |                     |
| 20              | 16QAM      | 50      | 50        | 22.87           | 22.95              | 23.00            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.86           | 22.86              | 22.89            |                     |
| 20              | 64QAM      | 1       | 0         | 22.94           | 22.98              | 23.03            |                     |
| 20              | 64QAM      | 1       | 49        | 22.91           | 22.97              | 22.98            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.84           | 23.00              | 22.49            |                     |
| 20              | 64QAM      | 50      | 0         | 21.81           | 21.87              | 21.54            |                     |
| 20              | 64QAM      | 50      | 24        | 21.92           | 21.92              | 21.54            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.86           | 21.97              | 21.58            |                     |
| 20              | 64QAM      | 100     | 0         | 21.87           | 21.90              | 21.49            |                     |
| Channel         |            |         |           | 18675           | 18900              | 19125            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 18575           | 18800              | 19025            |                     |
| 15              | QPSK       | 1       | 0         | 24.75           | 24.83              | 24.87            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.70           | 24.80              | 24.88            |                     |
| 15              | QPSK       | 1       | 74        | 24.73           | 24.80              | 24.90            |                     |
| 15              | QPSK       | 36      | 0         | 23.84           | 23.87              | 23.91            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.93           | 23.90              | 24.03            |                     |
| 15              | QPSK       | 36      | 39        | 23.87           | 23.97              | 24.03            |                     |
| 15              | QPSK       | 75      | 0         | 23.90           | 23.91              | 23.93            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.02           | 24.13              | 24.19            |                     |
| 15              | 16QAM      | 1       | 37        | 24.06           | 24.14              | 24.20            |                     |
| 15              | 16QAM      | 1       | 74        | 24.03           | 24.13              | 24.18            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.81           | 22.86              | 22.92            |                     |
| 15              | 16QAM      | 36      | 20        | 22.88           | 22.90              | 23.03            |                     |
| 15              | 16QAM      | 36      | 39        | 22.86           | 22.87              | 23.00            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.91           | 22.91              | 22.93            |                     |
| 15              | 64QAM      | 1       | 0         | 22.88           | 23.01              | 22.51            |                     |
| 15              | 64QAM      | 1       | 37        | 22.96           | 23.01              | 22.46            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.80           | 23.04              | 22.53            |                     |
| 15              | 64QAM      | 36      | 0         | 21.85           | 21.91              | 21.44            |                     |
| 15              | 64QAM      | 36      | 20        | 21.94           | 21.91              | 21.56            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.84           | 22.04              | 21.61            |                     |
| 15              | 64QAM      | 75      | 0         | 21.89           | 21.91              | 21.47            |                     |
| Channel         |            |         |           | 18650           | 18900              | 19150            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 18550           | 18800              | 19050            |                     |
| 10              | QPSK       | 1       | 0         | 24.76           | 24.72              | 24.89            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.69           | 24.82              | 24.87            |                     |
| 10              | QPSK       | 1       | 49        | 24.72           | 24.83              | 24.87            |                     |
| 10              | QPSK       | 25      | 0         | 23.86           | 23.85              | 23.90            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.87           | 23.89              | 23.95            |                     |
| 10              | QPSK       | 25      | 25        | 23.88           | 24.00              | 24.05            |                     |
| 10              | QPSK       | 50      | 0         | 23.87           | 23.89              | 23.97            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.12           | 24.15              | 24.23            |                     |
| 10              | 16QAM      | 1       | 25        | 24.13           | 24.18              | 24.27            |                     |
| 10              | 16QAM      | 1       | 49        | 24.08           | 24.18              | 24.25            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.85              | 22.91            |                     |
| 10              | 16QAM      | 25      | 12        | 22.90           | 22.90              | 22.96            |                     |
| 10              | 16QAM      | 25      | 25        | 22.88           | 22.97              | 23.05            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.88           | 22.88              | 22.95            |                     |
| 10              | 64QAM      | 1       | 0         | 23.02           | 23.03              | 22.50            |                     |
| 10              | 64QAM      | 1       | 25        | 23.05           | 23.16              | 22.73            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.95           | 23.10              | 22.99            |                     |
| 10              | 64QAM      | 25      | 0         | 21.88           | 21.88              | 21.51            |                     |
| 10              | 64QAM      | 25      | 12        | 21.94           | 21.92              | 21.66            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.90           | 22.00              | 21.58            |                     |
| 10              | 64QAM      | 50      | 0         | 21.90           | 21.92              | 21.48            |                     |
| Channel         |            |         |           | 18625           | 18900              | 19175            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 18525           | 18800              | 19075            |                     |
| 5               | QPSK       | 1       | 0         | 24.73           | 24.75              | 24.88            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.78           | 24.80              | 24.89            |                     |
| 5               | QPSK       | 1       | 24        | 24.79           | 24.88              | 24.90            |                     |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.85              | 24.00            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.91           | 23.94              | 24.02            |                     |
| 5               | QPSK       | 12      | 13        | 23.88           | 23.93              | 24.03            |                     |
| 5               | QPSK       | 25      | 0         | 23.85           | 23.87              | 24.01            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.07           | 24.08              | 24.20            |                     |
| 5               | 16QAM      | 1       | 12        | 24.05           | 24.15              | 24.20            |                     |
| 5               | 16QAM      | 1       | 24        | 24.08           | 24.24              | 24.21            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.87           | 22.89              | 23.00            |                     |
| 5               | 16QAM      | 12      | 7         | 22.92           | 23.01              | 23.06            |                     |
| 5               | 16QAM      | 12      | 13        | 22.86           | 22.96              | 23.04            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.86           | 22.90              | 23.04            |                     |
| 5               | 64QAM      | 1       | 0         | 23.04           | 23.07              | 22.61            |                     |
| 5               | 64QAM      | 1       | 12        | 23.00           | 23.13              | 22.65            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 23.02           | 23.12              | 22.49            |                     |
| 5               | 64QAM      | 12      | 0         | 21.92           | 21.92              | 21.62            |                     |
| 5               | 64QAM      | 12      | 7         | 21.96           | 22.04              | 21.63            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.93           | 22.00              | 21.53            |                     |
| 5               | 64QAM      | 25      | 0         | 21.90           | 21.90              | 21.49            |                     |
| Channel         |            |         |           | 18615           | 18900              | 19185            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 18515           | 18800              | 19085            |                     |
| 3               | QPSK       | 1       | 0         | 24.74           | 24.77              | 24.88            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.84           | 24.91              | 24.96            |                     |
| 3               | QPSK       | 1       | 14        | 24.77           | 24.88              | 24.95            |                     |
| 3               | QPSK       | 8       | 0         | 23.85           | 23.88              | 23.98            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.86           | 23.95              | 24.02            |                     |
| 3               | QPSK       | 8       | 7         | 23.89           | 23.95              | 24.01            |                     |
| 3               | QPSK       | 15      | 0         | 23.88           | 23.89              | 24.02            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.05           | 24.07              | 24.19            |                     |
| 3               | 16QAM      | 1       | 8         | 24.10           | 24.22              | 24.26            |                     |
| 3               | 16QAM      | 1       | 14        | 24.04           | 24.22              | 24.25            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.91           | 22.94              | 23.06            |                     |
| 3               | 16QAM      | 8       | 4         | 22.93           | 23.01              | 23.12            |                     |
| 3               | 16QAM      | 8       | 7         | 22.91           | 23.02              | 23.06            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.86           | 22.92              | 23.05            |                     |
| 3               | 64QAM      | 1       | 0         | 23.01           | 22.99              | 22.62            |                     |
| 3               | 64QAM      | 1       | 8         | 23.11           | 23.20              | 22.62            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 23.05           | 23.14              | 22.49            |                     |
| 3               | 64QAM      | 8       | 0         | 21.89           | 21.90              | 21.55            |                     |
| 3               | 64QAM      | 8       | 4         | 21.93           | 22.02              | 21.56            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.94           | 21.99              | 21.50            |                     |
| 3               | 64QAM      | 15      | 0         | 21.90           | 21.89              | 21.50            |                     |
| Channel         |            |         |           | 18600           | 18900              | 19193            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 18500           | 18800              | 19093            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.71           | 24.79              | 24.80            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.80           | 24.85              | 24.88            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.73           | 24.80              | 24.84            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.74           | 24.83              | 24.86            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.77           | 24.86              | 24.89            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.75           | 24.80              | 24.87            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.79           | 23.88              | 23.94            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 24.02           | 24.14              | 24.17            |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.10           | 24.19              | 24.21            |                     |
| 1.4             | 16QAM      | 1       | 5         | 24.02           | 24.10              | 24.13            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.81           | 23.88              | 23.90            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.87           | 23.95              | 23.98            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.82           | 23.86              | 23.93            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.84           | 22.93              | 23.02            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.95           | 23.01              | 22.45            |                     |
| 1.4             | 64QAM      | 1       | 3         | 23.02           | 23.08              | 22.49            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.97           | 23.03              | 22.43            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.93           | 23.01              | 22.46            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.97           | 23.06              | 22.52            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.93           | 23.02              | 22.40            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.80           | 21.90              | 21.36            |                     |



| Band 4          |            |         |           |                      |                         |                       |                     |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|
| Ant 0           |            |         |           |                      |                         |                       |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / 20050 | Power Middle Ch / 20175 | Power High Ch / 20300 | Tune-up limit (dBm) |
| Channel         |            |         |           | 1720                 | 1732.5                  | 1745                  |                     |
| Frequency (MHz) |            |         |           | 1720                 | 1732.5                  | 1745                  |                     |
| 20              | QPSK       | 1       | 0         | 24.64                | 24.72                   | 24.65                 | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.52                | 24.51                   | 24.51                 |                     |
| 20              | QPSK       | 1       | 99        | 24.53                | 24.54                   | 24.53                 |                     |
| 20              | QPSK       | 50      | 0         | 23.70                | 23.72                   | 23.73                 | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.72                | 23.70                   | 23.74                 |                     |
| 20              | QPSK       | 50      | 50        | 23.64                | 23.70                   | 23.69                 |                     |
| 20              | QPSK       | 100     | 0         | 23.69                | 23.75                   | 23.61                 | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.98                | 24.04                   | 23.99                 |                     |
| 20              | 16QAM      | 1       | 49        | 23.85                | 23.87                   | 23.88                 |                     |
| 20              | 16QAM      | 1       | 99        | 23.87                | 23.96                   | 23.84                 | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.99                | 22.71                   | 22.74                 |                     |
| 20              | 16QAM      | 50      | 24        | 22.73                | 22.73                   | 22.77                 |                     |
| 20              | 16QAM      | 50      | 50        | 22.65                | 22.64                   | 22.68                 | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.71                | 22.73                   | 22.65                 |                     |
| 20              | 64QAM      | 1       | 0         | 22.84                | 22.90                   | 22.69                 |                     |
| 20              | 64QAM      | 1       | 49        | 22.73                | 22.72                   | 22.77                 | 22.7                |
| 20              | 64QAM      | 1       | 99        | 22.73                | 22.64                   | 22.80                 |                     |
| 20              | 64QAM      | 50      | 0         | 21.70                | 21.76                   | 21.77                 |                     |
| 20              | 64QAM      | 50      | 24        | 21.74                | 21.75                   | 21.77                 | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.68                | 21.64                   | 21.69                 |                     |
| 20              | 64QAM      | 100     | 0         | 21.76                | 21.76                   | 21.70                 |                     |
| Channel         |            |         |           | 20025                | 20175                   | 20325                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5               | 1732.5                  | 1742.5                |                     |
| 15              | QPSK       | 1       | 0         | 24.67                | 24.71                   | 24.70                 | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.52                | 24.51                   | 24.57                 |                     |
| 15              | QPSK       | 1       | 74        | 24.56                | 24.55                   | 24.57                 |                     |
| 15              | QPSK       | 36      | 0         | 23.78                | 23.72                   | 23.72                 | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.73                | 23.73                   | 23.76                 |                     |
| 15              | QPSK       | 36      | 39        | 23.66                | 23.67                   | 23.71                 |                     |
| 15              | QPSK       | 75      | 0         | 23.70                | 23.75                   | 23.68                 | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.99                | 24.02                   | 24.04                 |                     |
| 15              | 16QAM      | 1       | 37        | 23.88                | 23.87                   | 23.92                 |                     |
| 15              | 16QAM      | 1       | 74        | 23.87                | 23.85                   | 23.89                 | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.78                | 22.72                   | 22.76                 |                     |
| 15              | 16QAM      | 36      | 20        | 22.71                | 22.73                   | 22.76                 |                     |
| 15              | 16QAM      | 36      | 39        | 22.67                | 22.66                   | 22.71                 | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.72                | 22.75                   | 22.69                 |                     |
| 15              | 64QAM      | 1       | 0         | 22.84                | 22.82                   | 22.93                 |                     |
| 15              | 64QAM      | 1       | 37        | 22.80                | 22.66                   | 22.81                 | 22.7                |
| 15              | 64QAM      | 1       | 74        | 22.76                | 22.74                   | 22.80                 |                     |
| 15              | 64QAM      | 36      | 0         | 21.79                | 21.81                   | 21.78                 |                     |
| 15              | 64QAM      | 36      | 20        | 21.73                | 21.74                   | 21.75                 | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.71                | 21.62                   | 21.76                 |                     |
| 15              | 64QAM      | 75      | 0         | 21.71                | 21.75                   | 21.67                 |                     |
| Channel         |            |         |           | 20000                | 20175                   | 20350                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715                 | 1732.5                  | 1750                  |                     |
| 10              | QPSK       | 1       | 0         | 24.59                | 24.65                   | 24.66                 | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.57                | 24.57                   | 24.71                 |                     |
| 10              | QPSK       | 1       | 49        | 24.60                | 24.62                   | 24.66                 |                     |
| 10              | QPSK       | 25      | 0         | 23.72                | 23.69                   | 23.70                 | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.72                | 23.78                   | 23.75                 |                     |
| 10              | QPSK       | 25      | 25        | 23.75                | 23.77                   | 23.81                 |                     |
| 10              | QPSK       | 50      | 0         | 23.75                | 23.75                   | 23.76                 | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.98                | 24.02                   | 24.06                 |                     |
| 10              | 16QAM      | 1       | 25        | 23.97                | 24.02                   | 24.03                 |                     |
| 10              | 16QAM      | 1       | 49        | 24.00                | 23.98                   | 24.05                 | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.72                | 22.67                   | 22.73                 |                     |
| 10              | 16QAM      | 25      | 12        | 22.76                | 22.79                   | 22.77                 |                     |
| 10              | 16QAM      | 25      | 25        | 22.74                | 22.72                   | 22.78                 | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.75                | 22.77                   | 22.74                 |                     |
| 10              | 64QAM      | 1       | 0         | 22.70                | 22.83                   | 22.90                 |                     |
| 10              | 64QAM      | 1       | 25        | 22.68                | 22.80                   | 22.98                 | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.91                | 22.65                   | 22.95                 |                     |
| 10              | 64QAM      | 25      | 0         | 21.70                | 21.70                   | 21.74                 |                     |
| 10              | 64QAM      | 25      | 12        | 21.77                | 21.74                   | 21.79                 | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.76                | 21.57                   | 21.83                 |                     |
| 10              | 64QAM      | 50      | 0         | 21.78                | 21.74                   | 21.79                 |                     |
| Channel         |            |         |           | 16975                | 20175                   | 20375                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5               | 1732.5                  | 1752.5                |                     |
| 5               | QPSK       | 1       | 0         | 24.63                | 24.62                   | 24.67                 | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.69                | 24.67                   | 24.71                 |                     |
| 5               | QPSK       | 1       | 24        | 24.66                | 24.69                   | 24.71                 |                     |
| 5               | QPSK       | 12      | 0         | 23.71                | 23.69                   | 23.75                 | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.76                | 23.77                   | 23.80                 |                     |
| 5               | QPSK       | 12      | 13        | 23.72                | 23.76                   | 23.77                 |                     |
| 5               | QPSK       | 25      | 0         | 23.70                | 23.73                   | 23.77                 | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.97                | 23.92                   | 24.05                 |                     |
| 5               | 16QAM      | 1       | 12        | 23.98                | 24.00                   | 24.04                 |                     |
| 5               | 16QAM      | 1       | 24        | 24.01                | 23.99                   | 24.03                 | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.75                | 22.69                   | 22.82                 |                     |
| 5               | 16QAM      | 12      | 7         | 22.79                | 22.80                   | 22.85                 |                     |
| 5               | 16QAM      | 12      | 13        | 22.78                | 22.80                   | 22.80                 | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.74                | 22.76                   | 22.79                 |                     |
| 5               | 64QAM      | 1       | 0         | 22.72                | 22.87                   | 22.99                 |                     |
| 5               | 64QAM      | 1       | 12        | 22.92                | 22.74                   | 22.96                 | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.98                | 22.81                   | 22.95                 |                     |
| 5               | 64QAM      | 12      | 0         | 21.77                | 21.72                   | 21.85                 |                     |
| 5               | 64QAM      | 12      | 7         | 21.84                | 21.77                   | 21.90                 | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.78                | 21.62                   | 21.84                 |                     |
| 5               | 64QAM      | 25      | 0         | 21.74                | 21.65                   | 21.82                 |                     |
| Channel         |            |         |           | 19965                | 20175                   | 20385                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5               | 1732.5                  | 1753.5                |                     |
| 3               | QPSK       | 1       | 0         | 24.64                | 24.60                   | 24.69                 | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.71                | 24.71                   | 24.71                 |                     |
| 3               | QPSK       | 1       | 14        | 24.65                | 24.69                   | 24.67                 |                     |
| 3               | QPSK       | 8       | 0         | 23.71                | 23.65                   | 23.79                 | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.75                | 23.75                   | 23.77                 |                     |
| 3               | QPSK       | 8       | 7         | 23.74                | 23.76                   | 23.74                 |                     |
| 3               | QPSK       | 15      | 0         | 23.74                | 23.73                   | 23.78                 | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.99                | 23.92                   | 23.98                 |                     |
| 3               | 16QAM      | 1       | 8         | 24.05                | 24.07                   | 24.10                 |                     |
| 3               | 16QAM      | 1       | 14        | 23.98                | 23.97                   | 24.05                 | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.79                | 22.75                   | 22.82                 |                     |
| 3               | 16QAM      | 8       | 4         | 22.84                | 22.84                   | 22.90                 |                     |
| 3               | 16QAM      | 8       | 7         | 22.81                | 22.79                   | 22.83                 | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.80                | 22.74                   | 22.78                 |                     |
| 3               | 64QAM      | 1       | 0         | 22.75                | 22.84                   | 22.95                 |                     |
| 3               | 64QAM      | 1       | 8         | 23.00                | 22.91                   | 23.01                 | 22.7                |
| 3               | 64QAM      | 1       | 14        | 22.97                | 22.69                   | 22.98                 |                     |
| 3               | 64QAM      | 8       | 0         | 21.73                | 21.73                   | 21.85                 |                     |
| 3               | 64QAM      | 8       | 4         | 21.84                | 21.72                   | 21.86                 | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.83                | 21.64                   | 21.83                 |                     |
| 3               | 64QAM      | 15      | 0         | 21.74                | 21.70                   | 21.78                 |                     |
| Channel         |            |         |           | 16957                | 20175                   | 20395                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7               | 1732.5                  | 1754.3                |                     |
| 1.4             | QPSK       | 1       | 0         | 24.54                | 24.59                   | 24.58                 | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.63                | 24.63                   | 24.66                 |                     |
| 1.4             | QPSK       | 1       | 5         | 24.54                | 24.61                   | 24.60                 |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59                | 24.60                   | 24.67                 | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.65                | 24.64                   | 24.71                 |                     |
| 1.4             | QPSK       | 3       | 5         | 24.63                | 24.59                   | 24.63                 |                     |
| 1.4             | QPSK       | 8       | 0         | 23.68                | 23.67                   | 23.72                 | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.89                | 23.90                   | 23.94                 |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.95                | 23.97                   | 24.00                 |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.89                | 23.93                   | 23.94                 | 23.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.69                | 23.69                   | 23.75                 |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.76                | 23.73                   | 23.80                 |                     |
| 1.4             | 16QAM      | 3       | 5         | 23.67                | 23.68                   | 23.71                 | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.73                | 22.75                   | 22.78                 |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.68                | 22.71                   | 22.88                 |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.81                | 22.75                   | 22.94                 | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.79                | 22.65                   | 22.85                 |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.69                | 22.75                   | 22.82                 |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.83                | 22.94                   | 22.91                 | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.79                | 22.70                   | 22.86                 |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.83                | 21.62                   | 21.71                 |                     |

| Band 5          |            |         |           |                      |                         |                       |                     |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|
| Ant 1           |            |         |           |                      |                         |                       |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / 20450 | Power Middle Ch / 20525 | Power High Ch / 20600 | Tune-up limit (dBm) |
| Channel         |            |         |           | 829.5                | 836.5                   | 844                   | 25.7                |
| Frequency (MHz) |            |         |           | 829.5                | 836.5                   | 844                   |                     |
| 10              | QPSK       | 1       | 0         | 24.43                | 24.46                   | 24.43                 | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.39                | 24.46                   | 24.45                 |                     |
| 10              | QPSK       | 1       | 49        | 24.42                | 24.47                   | 24.40                 |                     |
| 10              | QPSK       | 25      | 0         | 23.49                | 23.55                   | 23.56                 | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.56                | 23.57                   | 23.57                 |                     |
| 10              | QPSK       | 25      | 25        | 23.54                | 23.57                   | 23.47                 |                     |
| 10              | QPSK       | 50      | 0         | 23.57                | 23.55                   | 23.56                 | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.84                | 23.81                   | 23.88                 |                     |
| 10              | 16QAM      | 1       | 25        | 23.77                | 23.82                   | 23.84                 |                     |
| 10              | 16QAM      | 1       | 49        | 23.63                | 23.66                   | 23.76                 | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.49                | 22.55                   | 22.53                 |                     |
| 10              | 16QAM      | 25      | 12        | 22.59                | 22.57                   | 22.55                 |                     |
| 10              | 16QAM      | 25      | 25        | 22.54                | 22.60                   | 22.57                 | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.56                | 22.55                   | 22.55                 |                     |
| 10              | 64QAM      | 1       | 0         | 22.71                | 22.68                   | 22.74                 | 23.7                |
| 10              | 64QAM      | 1       | 25        | 22.73                | 22.49                   | 22.51                 |                     |
| 10              | 64QAM      | 1       | 49        | 22.73                | 22.35                   | 21.70                 |                     |
| 10              | 64QAM      | 25      | 0         | 21.54                | 21.60                   | 21.58                 | 22.7                |
| 10              | 64QAM      | 25      | 12        | 21.63                | 21.53                   | 21.47                 |                     |
| 10              | 64QAM      | 25      | 25        | 21.58                | 21.61                   | 20.76                 |                     |
| 10              | 64QAM      | 50      | 0         | 21.59                | 21.57                   | 21.25                 | Tune-up limit (dBm) |
| Channel         |            |         |           | 829.5                | 836.5                   | 844.5                 |                     |
| Frequency (MHz) |            |         |           | 829.5                | 836.5                   | 844.5                 | 25.7                |
| 5               | QPSK       | 1       | 0         | 24.46                | 24.40                   | 24.40                 |                     |
| 5               | QPSK       | 1       | 12        | 24.44                | 24.46                   | 24.19                 | 24.7                |
| 5               | QPSK       | 1       | 24        | 24.46                | 24.45                   | 24.23                 |                     |
| 5               | QPSK       | 12      | 0         | 23.59                | 23.59                   | 23.58                 |                     |
| 5               | QPSK       | 12      | 7         | 23.54                | 23.61                   | 23.25                 | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.52                | 23.56                   | 23.24                 |                     |
| 5               | QPSK       | 25      | 0         | 23.54                | 23.52                   | 23.37                 |                     |
| 5               | 16QAM      | 1       | 0         | 23.91                | 23.90                   | 23.87                 | 24.7                |
| 5               | 16QAM      | 1       | 12        | 23.78                | 23.86                   | 23.43                 |                     |
| 5               | 16QAM      | 1       | 24        | 23.79                | 23.83                   | 23.43                 |                     |
| 5               | 16QAM      | 12      | 0         | 22.65                | 22.62                   | 22.60                 | 23.7                |
| 5               | 16QAM      | 12      | 7         | 22.57                | 22.64                   | 22.38                 |                     |
| 5               | 16QAM      | 12      | 13        | 22.52                | 22.59                   | 22.36                 |                     |
| 5               | 16QAM      | 25      | 0         | 22.57                | 22.59                   | 22.51                 | 23.7                |
| 5               | 64QAM      | 1       | 0         | 22.87                | 22.79                   | 22.18                 |                     |
| 5               | 64QAM      | 1       | 12        | 22.72                | 22.71                   | 21.72                 |                     |
| 5               | 64QAM      | 1       | 24        | 22.72                | 22.73                   | 21.73                 | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.69                | 21.69                   | 20.87                 |                     |
| 5               | 64QAM      | 12      | 7         | 21.63                | 21.59                   | 21.85                 |                     |
| 5               | 64QAM      | 12      | 13        | 21.60                | 21.61                   | 20.71                 | Tune-up limit (dBm) |
| 5               | 64QAM      | 25      | 0         | 21.57                | 21.61                   | 20.73                 |                     |
| Channel         |            |         |           | 20415                | 20525                   | 20635                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 825.5                | 836.5                   | 847.5                 |                     |
| 3               | QPSK       | 1       | 0         | 24.43                | 24.43                   | 24.20                 | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.43                | 24.45                   | 24.13                 |                     |
| 3               | QPSK       | 1       | 14        | 24.39                | 24.42                   | 24.17                 |                     |
| 3               | QPSK       | 8       | 0         | 23.60                | 23.60                   | 23.07                 | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.55                | 23.62                   | 23.16                 |                     |
| 3               | QPSK       | 8       | 7         | 23.52                | 23.58                   | 23.25                 |                     |
| 3               | QPSK       | 15      | 0         | 23.57                | 23.56                   | 23.17                 | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.87                | 23.84                   | 23.44                 |                     |
| 3               | 16QAM      | 1       | 8         | 23.89                | 23.89                   | 23.38                 |                     |
| 3               | 16QAM      | 1       | 14        | 23.74                | 23.82                   | 23.44                 | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.66                | 22.61                   | 22.26                 |                     |
| 3               | 16QAM      | 8       | 4         | 22.66                | 22.71                   | 22.30                 |                     |
| 3               | 16QAM      | 8       | 7         | 22.60                | 22.65                   | 22.40                 | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.60                | 22.54                   | 22.27                 |                     |
| 3               | 64QAM      | 1       | 0         | 22.81                | 22.74                   | 21.74                 |                     |
| 3               | 64QAM      | 1       | 8         | 22.83                | 22.74                   | 21.72                 | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.70                | 22.64                   | 21.71                 |                     |
| 3               | 64QAM      | 8       | 0         | 21.69                | 21.58                   | 20.75                 | 22.7                |
| 3               | 64QAM      | 8       | 4         | 21.66                | 21.56                   | 20.73                 |                     |
| 3               | 64QAM      | 8       | 7         | 21.62                | 21.61                   | 20.80                 |                     |
| 3               | 64QAM      | 15      | 0         | 21.63                | 21.60                   | 20.71                 | Tune-up limit (dBm) |
| Channel         |            |         |           | 23107                | 20525                   | 23353                 |                     |
| Frequency (MHz) |            |         |           | 824.7                | 836.5                   | 846.3                 | 25.7                |
| 1.4             | QPSK       | 1       | 0         | 24.42                | 24.41                   | 24.09                 |                     |
| 1.4             | QPSK       | 1       | 3         | 24.46                | 24.45                   | 24.26                 | 25.7                |
| 1.4             | QPSK       | 1       | 5         | 24.38                | 24.39                   | 24.21                 |                     |
| 1.4             | QPSK       | 3       | 0         | 24.41                | 24.41                   | 24.22                 |                     |
| 1.4             | QPSK       | 3       | 1         | 24.46                | 24.46                   | 24.30                 | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.41                | 24.45                   | 24.42                 |                     |
| 1.4             | QPSK       | 6       | 0         | 23.50                | 23.51                   | 23.36                 |                     |
| 1.4             | 16QAM      | 1       | 0         | 23.75                | 23.73                   | 23.46                 | 24.7                |
| 1.4             | 16QAM      | 1       | 3         | 23.79                | 23.84                   | 23.67                 |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.68                | 23.74                   | 23.60                 |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.56                | 23.51                   | 23.29                 | 23.7                |
| 1.4             | 16QAM      | 3       | 1         | 23.60                | 23.58                   | 23.35                 |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.51                | 23.53                   | 23.45                 |                     |
| 1.4             | 16QAM      | 6       | 0         | 22.58                | 22.61                   | 22.49                 | 23.7                |
| 1.4             | 64QAM      | 1       | 0         | 22.69                | 22.61                   | 21.73                 |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.75                | 22.64                   | 21.71                 |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.64                | 22.61                   | 21.72                 | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.66                | 22.60                   | 21.73                 |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.69                | 22.63                   | 21.74                 |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.63                | 22.60                   | 21.75                 | 22.7                |
| 1.4             | 64QAM      | 6       | 0         | 21.54                | 21.47                   | 20.72                 |                     |



| Band 7          |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850          | 21100             | 21350           |                     |
| Frequency (MHz) |            |         |           | 2510           | 2535              | 2560            |                     |
| 20              | QPSK       | 1       | 0         | 24.06          | 24.10             | 24.04           | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.12          | 24.13             | 24.01           |                     |
| 20              | QPSK       | 1       | 99        | 24.25          | 24.24             | 24.05           |                     |
| 20              | QPSK       | 50      | 0         | 23.18          | 23.18             | 23.17           | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.32          | 23.19             | 23.21           |                     |
| 20              | QPSK       | 50      | 50        | 23.33          | 23.31             | 23.22           |                     |
| 20              | QPSK       | 100     | 0         | 23.28          | 23.17             | 23.18           | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.42          | 23.44             | 23.38           |                     |
| 20              | 16QAM      | 1       | 49        | 23.49          | 23.48             | 23.36           |                     |
| 20              | 16QAM      | 1       | 99        | 23.53          | 23.52             | 23.39           | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.17          | 22.16             | 22.20           |                     |
| 20              | 16QAM      | 50      | 24        | 22.31          | 22.21             | 22.20           |                     |
| 20              | 16QAM      | 50      | 50        | 22.31          | 22.32             | 22.18           | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.26          | 22.20             | 22.18           |                     |
| 20              | 64QAM      | 1       | 0         | 22.25          | 22.25             | 22.30           |                     |
| 20              | 64QAM      | 1       | 49        | 22.37          | 22.40             | 22.27           | 22.7                |
| 20              | 64QAM      | 1       | 99        | 22.39          | 22.42             | 22.33           |                     |
| 20              | 64QAM      | 50      | 0         | 21.20          | 21.21             | 21.22           |                     |
| 20              | 64QAM      | 50      | 24        | 21.31          | 21.24             | 21.24           | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.32          | 21.32             | 21.20           |                     |
| 20              | 64QAM      | 100     | 0         | 21.30          | 21.21             | 21.18           |                     |
| Channel         |            |         |           | 20850          | 21100             | 21375           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5         | 2535              | 2562.5          |                     |
| 15              | QPSK       | 1       | 0         | 24.14          | 24.13             | 24.00           | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.16          | 24.15             | 24.05           |                     |
| 15              | QPSK       | 1       | 74        | 24.21          | 24.23             | 24.09           |                     |
| 15              | QPSK       | 36      | 0         | 23.24          | 23.21             | 23.19           | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.34          | 23.26             | 23.23           |                     |
| 15              | QPSK       | 36      | 39        | 23.32          | 23.33             | 23.20           |                     |
| 15              | QPSK       | 75      | 0         | 23.28          | 23.24             | 23.20           | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.44          | 23.47             | 23.39           |                     |
| 15              | 16QAM      | 1       | 37        | 23.51          | 23.53             | 23.37           |                     |
| 15              | 16QAM      | 1       | 74        | 23.55          | 23.56             | 23.41           | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.27          | 22.21             | 22.19           |                     |
| 15              | 16QAM      | 36      | 20        | 22.31          | 22.23             | 22.20           |                     |
| 15              | 16QAM      | 36      | 39        | 22.29          | 22.30             | 22.17           | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.30          | 22.22             | 22.18           |                     |
| 15              | 64QAM      | 1       | 0         | 22.26          | 22.30             | 22.35           |                     |
| 15              | 64QAM      | 1       | 37        | 22.41          | 22.43             | 22.29           | 22.7                |
| 15              | 64QAM      | 1       | 74        | 22.45          | 22.41             | 22.30           |                     |
| 15              | 64QAM      | 36      | 0         | 21.30          | 21.25             | 21.23           |                     |
| 15              | 64QAM      | 36      | 20        | 21.33          | 21.27             | 21.23           | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.39          | 21.36             | 21.24           |                     |
| 15              | 64QAM      | 75      | 0         | 21.30          | 21.22             | 21.21           |                     |
| Channel         |            |         |           | 20800          | 21100             | 21400           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505           | 2535              | 2565            |                     |
| 10              | QPSK       | 1       | 0         | 24.13          | 24.09             | 24.00           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.11          | 24.11             | 23.99           |                     |
| 10              | QPSK       | 1       | 49        | 24.16          | 24.19             | 24.02           |                     |
| 10              | QPSK       | 25      | 0         | 23.26          | 23.23             | 23.16           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.31          | 23.24             | 23.20           |                     |
| 10              | QPSK       | 25      | 25        | 23.31          | 23.31             | 23.16           |                     |
| 10              | QPSK       | 50      | 0         | 23.30          | 23.24             | 23.17           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.50          | 23.46             | 23.39           |                     |
| 10              | 16QAM      | 1       | 25        | 23.50          | 23.52             | 23.37           |                     |
| 10              | 16QAM      | 1       | 49        | 23.53          | 23.56             | 23.41           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.27          | 22.18             | 22.14           |                     |
| 10              | 16QAM      | 25      | 12        | 22.30          | 22.24             | 22.17           |                     |
| 10              | 16QAM      | 25      | 25        | 22.28          | 22.30             | 22.15           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.28          | 22.23             | 22.18           |                     |
| 10              | 64QAM      | 1       | 0         | 22.40          | 22.33             | 22.33           |                     |
| 10              | 64QAM      | 1       | 25        | 22.43          | 22.43             | 22.30           | 22.7                |
| 10              | 64QAM      | 1       | 49        | 22.43          | 22.45             | 22.29           |                     |
| 10              | 64QAM      | 25      | 0         | 21.29          | 21.25             | 21.18           |                     |
| 10              | 64QAM      | 25      | 12        | 21.34          | 21.29             | 21.23           | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.33          | 21.33             | 21.20           |                     |
| 10              | 64QAM      | 50      | 0         | 21.34          | 21.28             | 21.23           |                     |
| Channel         |            |         |           | 20775          | 21100             | 21425           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5         | 2535              | 2567.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.14          | 24.10             | 24.03           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.18          | 24.18             | 24.03           |                     |
| 5               | QPSK       | 1       | 24        | 24.17          | 24.17             | 24.02           |                     |
| 5               | QPSK       | 12      | 0         | 23.27          | 23.25             | 23.12           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.29          | 23.21             | 23.10           |                     |
| 5               | QPSK       | 12      | 13        | 23.27          | 23.31             | 23.15           |                     |
| 5               | QPSK       | 25      | 0         | 23.28          | 23.23             | 23.13           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.48          | 23.45             | 23.34           |                     |
| 5               | 16QAM      | 1       | 12        | 23.47          | 23.51             | 23.35           |                     |
| 5               | 16QAM      | 1       | 24        | 23.54          | 23.50             | 23.40           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.29          | 22.25             | 22.17           |                     |
| 5               | 16QAM      | 12      | 7         | 22.28          | 22.28             | 22.16           |                     |
| 5               | 16QAM      | 12      | 13        | 22.31          | 22.30             | 22.13           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.27          | 22.23             | 22.15           |                     |
| 5               | 64QAM      | 1       | 0         | 22.42          | 22.38             | 22.29           |                     |
| 5               | 64QAM      | 1       | 12        | 22.40          | 22.44             | 22.26           | 22.7                |
| 5               | 64QAM      | 1       | 24        | 22.44          | 22.43             | 22.28           |                     |
| 5               | 64QAM      | 12      | 0         | 21.35          | 21.30             | 21.20           |                     |
| 5               | 64QAM      | 12      | 7         | 21.38          | 21.26             | 21.16           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.36          | 21.36             | 21.23           |                     |
| 5               | 64QAM      | 25      | 0         | 21.31          | 21.25             | 21.18           |                     |



| Band 12         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 1           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23050          | 23095             | 23130           |                     |
| Frequency (MHz) |            |         |           | 704            | 707.5             | 711             |                     |
| 10              | QPSK       | 1       | 0         | 24.57          | 24.53             | 24.51           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58          | 24.57             | 24.54           |                     |
| 10              | QPSK       | 1       | 49        | 24.63          | 24.62             | 24.58           |                     |
| 10              | QPSK       | 25      | 0         | 23.64          | 23.68             | 23.68           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.74          | 23.70             | 23.69           |                     |
| 10              | QPSK       | 25      | 25        | 23.72          | 23.75             | 23.74           |                     |
| 10              | QPSK       | 50      | 0         | 23.73          | 23.67             | 23.68           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.94          | 23.91             | 23.89           |                     |
| 10              | 16QAM      | 1       | 25        | 23.94          | 23.99             | 23.95           |                     |
| 10              | 16QAM      | 1       | 49        | 24.00          | 24.00             | 23.96           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.96          | 22.71             | 22.68           |                     |
| 10              | 16QAM      | 25      | 12        | 22.75          | 22.69             | 22.68           |                     |
| 10              | 16QAM      | 25      | 25        | 22.70          | 22.76             | 22.71           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.72          | 22.69             | 22.64           |                     |
| 10              | 64QAM      | 1       | 0         | 22.60          | 22.76             | 22.82           | 23.7                |
| 10              | 64QAM      | 1       | 25        | 22.56          | 22.89             | 22.57           |                     |
| 10              | 64QAM      | 1       | 49        | 22.88          | 22.85             | 22.83           |                     |
| 10              | 64QAM      | 25      | 0         | 21.48          | 21.60             | 21.64           | 22.7                |
| 10              | 64QAM      | 25      | 12        | 21.63          | 21.71             | 21.72           |                     |
| 10              | 64QAM      | 25      | 25        | 21.72          | 21.77             | 21.76           |                     |
| 10              | 64QAM      | 50      | 0         | 21.55          | 21.68             | 21.70           |                     |
| Channel         |            |         |           | 23095          | 23095             | 23105           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 701.5          | 707.5             | 713.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.62          | 24.50             | 24.50           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.60          | 24.62             | 24.60           |                     |
| 5               | QPSK       | 1       | 24        | 24.62          | 24.61             | 24.61           |                     |
| 5               | QPSK       | 12      | 0         | 23.73          | 23.71             | 23.68           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.69          | 23.69             | 23.74           |                     |
| 5               | QPSK       | 12      | 13        | 23.71          | 23.71             | 23.67           |                     |
| 5               | QPSK       | 25      | 0         | 23.70          | 23.67             | 23.66           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.96          | 23.92             | 23.87           |                     |
| 5               | 16QAM      | 1       | 12        | 23.88          | 23.95             | 23.93           |                     |
| 5               | 16QAM      | 1       | 24        | 23.95          | 23.93             | 23.93           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.77          | 22.73             | 22.70           |                     |
| 5               | 16QAM      | 12      | 7         | 22.74          | 22.70             | 22.79           |                     |
| 5               | 16QAM      | 12      | 13        | 22.69          | 22.76             | 22.68           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.73          | 22.71             | 22.70           |                     |
| 5               | 64QAM      | 1       | 0         | 22.46          | 22.49             | 22.84           |                     |
| 5               | 64QAM      | 1       | 12        | 22.63          | 22.87             | 22.86           | 22.7                |
| 5               | 64QAM      | 1       | 24        | 22.48          | 22.86             | 22.85           |                     |
| 5               | 64QAM      | 12      | 0         | 21.51          | 21.79             | 21.76           |                     |
| 5               | 64QAM      | 12      | 7         | 21.65          | 21.76             | 21.81           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.71          | 21.79             | 21.76           |                     |
| 5               | 64QAM      | 25      | 0         | 21.60          | 21.70             | 21.70           |                     |
| Channel         |            |         |           | 23025          | 23095             | 23165           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 700.5          | 707.5             | 714.5           |                     |
| 3               | QPSK       | 1       | 0         | 24.62          | 24.60             | 24.61           | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.62          | 24.62             | 24.60           |                     |
| 3               | QPSK       | 1       | 14        | 24.57          | 24.60             | 24.58           |                     |
| 3               | QPSK       | 8       | 0         | 23.69          | 23.70             | 22.70           | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.69          | 23.64             | 22.71           |                     |
| 3               | QPSK       | 8       | 7         | 23.62          | 23.70             | 22.70           |                     |
| 3               | QPSK       | 15      | 0         | 23.70          | 23.66             | 22.70           | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.00          | 24.02             | 23.95           |                     |
| 3               | 16QAM      | 1       | 8         | 23.96          | 23.98             | 23.98           |                     |
| 3               | 16QAM      | 1       | 14        | 23.91          | 23.96             | 23.91           | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.75          | 22.71             | 22.71           |                     |
| 3               | 16QAM      | 8       | 4         | 22.78          | 22.75             | 22.82           |                     |
| 3               | 16QAM      | 8       | 7         | 22.71          | 22.77             | 22.71           | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.73          | 22.69             | 22.68           |                     |
| 3               | 64QAM      | 1       | 0         | 22.46          | 22.70             | 22.87           |                     |
| 3               | 64QAM      | 1       | 8         | 22.67          | 22.86             | 22.90           | 22.7                |
| 3               | 64QAM      | 1       | 14        | 22.96          | 22.84             | 22.81           |                     |
| 3               | 64QAM      | 8       | 0         | 21.50          | 21.75             | 21.71           |                     |
| 3               | 64QAM      | 8       | 4         | 21.58          | 21.74             | 21.76           | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.58          | 21.79             | 21.71           |                     |
| 3               | 64QAM      | 15      | 0         | 21.55          | 21.68             | 21.69           |                     |
| Channel         |            |         |           | 23017          | 23095             | 23173           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 699.7          | 707.5             | 715.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 24.54          | 24.50             | 24.53           | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.60          | 24.61             | 24.57           |                     |
| 1.4             | QPSK       | 1       | 5         | 24.52          | 24.51             | 24.01           |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59          | 24.54             | 24.52           | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.64          | 24.56             | 24.58           |                     |
| 1.4             | QPSK       | 3       | 3         | 24.57          | 24.60             | 24.52           |                     |
| 1.4             | QPSK       | 6       | 0         | 23.62          | 23.64             | 23.59           | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.87          | 23.83             | 23.87           |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.89          | 23.96             | 23.88           |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.84          | 23.87             | 23.87           | 23.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.64          | 23.58             | 23.62           |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.73          | 23.66             | 23.65           |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.61          | 23.65             | 23.59           | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71          | 22.71             | 22.67           |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.59          | 22.76             | 22.76           |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.76          | 22.85             | 22.77           | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.74          | 22.78             | 22.68           |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.55          | 22.72             | 22.74           |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.59          | 22.77             | 22.79           | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.60          | 22.77             | 22.77           |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.44          | 21.65             | 21.61           |                     |

| Band 13         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 1           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |
| Channel         |            |         |           | 23230          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 782            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.17             |                 | 25.2                |
| 10              | QPSK       | 1       | 25        |                | 24.10             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.14             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.17             |                 | 24.2                |
| 10              | QPSK       | 25      | 12        |                | 23.21             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.21             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.20             |                 | 24.2                |
| 10              | 16QAM      | 1       | 0         |                | 23.42             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 23.45             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.42             |                 | 23.2                |
| 10              | 16QAM      | 25      | 0         |                | 22.20             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.23             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.20             |                 | 23.2                |
| 10              | 16QAM      | 50      | 0         |                | 22.23             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.49             |                 | 22.2                |
| 10              | 64QAM      | 1       | 49        |                | 22.34             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.24             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.23             |                 | 22.2                |
| 10              | 64QAM      | 25      | 25        |                | 21.25             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.26             |                 |                     |
| Channel         |            |         |           | 23205          | 23230             | 23255           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 779.5          | 782               | 784.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.15          | 24.11             | 24.16           | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.16          | 24.14             | 24.11           |                     |
| 5               | QPSK       | 1       | 24        | 24.15          | 24.12             | 24.14           |                     |
| 5               | QPSK       | 12      | 0         | 23.22          | 23.22             | 23.17           | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.28          | 23.20             | 23.19           |                     |
| 5               | QPSK       | 12      | 13        | 23.27          | 23.23             | 23.16           |                     |
| 5               | QPSK       | 25      | 0         | 23.28          | 23.18             | 23.17           | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.38          | 23.42             | 23.37           |                     |
| 5               | 16QAM      | 1       | 12        | 23.39          | 23.40             | 23.32           |                     |
| 5               | 16QAM      | 1       | 24        | 23.46          | 23.41             | 23.37           | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.29          | 22.25             | 22.23           |                     |
| 5               | 16QAM      | 12      | 7         | 22.31          | 22.23             | 22.24           |                     |
| 5               | 16QAM      | 12      | 13        | 22.29          | 22.26             | 22.24           | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.31          | 22.21             | 22.23           |                     |
| 5               | 64QAM      | 1       | 0         | 21.89          | 22.34             | 22.30           |                     |
| 5               | 64QAM      | 1       | 12        | 22.40          | 22.32             | 22.33           | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.38          | 22.38             | 22.32           |                     |
| 5               | 64QAM      | 12      | 0         | 21.34          | 21.30             | 21.26           |                     |
| 5               | 64QAM      | 12      | 7         | 21.32          | 21.26             | 21.25           | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.25          | 21.26             | 21.25           |                     |
| 5               | 64QAM      | 25      | 0         | 20.96          | 21.26             | 21.23           |                     |

| Band 14         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 1           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |
| Channel         |            |         |           | 23330          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 793            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.59             |                 | 25.7                |
| 10              | QPSK       | 1       | 25        |                | 24.53             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.43             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.56             |                 | 24.7                |
| 10              | QPSK       | 25      | 12        |                | 23.56             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.59             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.53             |                 | 24.7                |
| 10              | 16QAM      | 1       | 0         |                | 23.94             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 23.92             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.83             |                 | 23.7                |
| 10              | 16QAM      | 25      | 0         |                | 22.55             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.53             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.58             |                 | 23.7                |
| 10              | 16QAM      | 50      | 0         |                | 22.53             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.62             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.64             |                 | 22.7                |
| 10              | 64QAM      | 1       | 49        |                | 22.72             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.39             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.38             |                 | 22.7                |
| 10              | 64QAM      | 25      | 25        |                | 21.58             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.44             |                 |                     |
| Channel         |            |         |           | 23305          | 23330             | 23355           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5          | 793               | 795.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.51          | 24.49             | 24.44           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.58          | 24.58             | 24.56           |                     |
| 5               | QPSK       | 1       | 24        | 24.54          | 24.49             | 24.43           |                     |
| 5               | QPSK       | 12      | 0         | 23.59          | 23.56             | 23.51           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.66          | 23.57             | 23.53           |                     |
| 5               | QPSK       | 12      | 13        | 23.59          | 23.56             | 23.55           |                     |
| 5               | QPSK       | 25      | 0         | 23.58          | 23.53             | 23.50           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.83          | 23.80             | 23.82           |                     |
| 5               | 16QAM      | 1       | 12        | 23.88          | 23.88             | 23.87           |                     |
| 5               | 16QAM      | 1       | 24        | 23.87          | 23.80             | 23.78           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64          | 22.57             | 22.55           |                     |
| 5               | 16QAM      | 12      | 7         | 22.64          | 22.64             | 22.58           |                     |
| 5               | 16QAM      | 12      | 13        | 22.61          | 22.59             | 22.56           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.66          | 22.54             | 22.52           |                     |
| 5               | 64QAM      | 1       | 0         | 22.60          | 22.51             | 22.49           |                     |
| 5               | 64QAM      | 1       | 12        | 22.57          | 22.35             | 22.58           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.32          | 22.41             | 22.77           |                     |
| 5               | 64QAM      | 12      | 0         | 21.50          | 21.32             | 21.31           |                     |
| 5               | 64QAM      | 12      | 7         | 21.44          | 21.28             | 21.63           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.31          | 21.27             | 21.81           |                     |
| 5               | 64QAM      | 25      | 0         | 21.34          | 21.28             | 21.51           |                     |



| Band 17         |            |         |           |                |                   |                 |                     |  |  |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|--|--|
| Ant 1           |            |         |           |                |                   |                 |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 23780          | 23790             | 23800           |                     |  |  |
| Frequency (MHz) |            |         |           | 709            | 710               | 711             |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.60          | 24.56             | 24.55           | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.61          | 24.62             | 24.59           |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.64          | 24.67             | 24.63           |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.65          | 23.68             | 23.66           | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.79          | 23.75             | 23.70           |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.81          | 23.82             | 23.80           |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.69          | 23.72             | 23.69           | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 23.93          | 23.95             | 23.94           |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.03          | 24.06             | 24.01           |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 24.01          | 24.02             | 23.98           | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.66          | 22.65             | 22.65           |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.79          | 22.75             | 22.73           |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.78          | 22.77             | 22.76           | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.69          | 22.69             | 22.67           |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.64          | 22.70             | 22.79           |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.72          | 22.67             | 22.63           | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.84          | 22.75             | 22.59           |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.42          | 21.42             | 21.41           |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.51          | 21.48             | 21.48           | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 21.61          | 21.67             | 21.66           |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.53          | 21.64             | 21.57           |                     |  |  |
| Channel         |            |         |           | 23785          | 23790             | 23805           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 709.5          | 710               | 713.5           |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.57          | 24.58             | 24.58           | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.66          | 24.65             | 24.63           |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.65          | 24.66             | 24.64           |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.66          | 23.69             | 23.67           | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.76          | 23.76             | 23.78           |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.74          | 23.77             | 23.73           |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.74          | 23.71             | 23.75           | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 23.91          | 23.93             | 23.91           |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.95          | 23.97             | 23.96           |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 24.00          | 24.05             | 23.99           | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.73          | 22.71             | 22.74           |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.79          | 22.77             | 22.79           |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.77          | 22.90             | 22.77           | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.74          | 22.76             | 22.77           |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.26          | 22.42             | 22.71           |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.62          | 22.61             | 22.81           | 23.7                |  |  |
| 5               | 64QAM      | 1       | 24        | 22.53          | 22.52             | 22.48           |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.55          | 21.47             | 21.65           |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.69          | 21.47             | 21.76           | 22.7                |  |  |
| 5               | 64QAM      | 12      | 13        | 21.66          | 21.50             | 21.70           |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.52          | 21.44             | 21.59           |                     |  |  |



| Band 25         |            |         |           |                      |                         |                       |                     |
|-----------------|------------|---------|-----------|----------------------|-------------------------|-----------------------|---------------------|
| Ant 0           |            |         |           |                      |                         |                       |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / 26140 | Power Middle Ch / 26340 | Power High Ch / 26590 | Tune-up limit (dBm) |
| Channel         |            |         |           | 26140                | 26340                   | 26590                 |                     |
| Frequency (MHz) |            |         |           | 1860                 | 1880                    | 1905                  |                     |
| 20              | QPSK       | 1       | 0         | 24.79                | 24.78                   | 24.93                 | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.72                | 24.74                   | 24.80                 |                     |
| 20              | QPSK       | 1       | 99        | 24.65                | 24.74                   | 24.59                 |                     |
| 20              | QPSK       | 50      | 0         | 23.83                | 23.89                   | 23.94                 | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.88                | 23.99                   | 24.01                 |                     |
| 20              | QPSK       | 50      | 50        | 23.82                | 23.93                   | 24.00                 |                     |
| 20              | QPSK       | 100     | 0         | 23.89                | 23.97                   | 23.98                 | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.14                | 24.15                   | 24.16                 |                     |
| 20              | 16QAM      | 1       | 49        | 24.07                | 24.11                   | 24.17                 |                     |
| 20              | 16QAM      | 1       | 99        | 23.99                | 24.10                   | 23.73                 | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.94                | 22.92                   | 22.95                 |                     |
| 20              | 16QAM      | 50      | 24        | 22.89                | 22.99                   | 22.95                 |                     |
| 20              | 16QAM      | 50      | 50        | 22.85                | 22.94                   | 23.02                 | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.87                | 22.95                   | 22.93                 |                     |
| 20              | 64QAM      | 1       | 0         | 23.00                | 22.99                   | 22.68                 |                     |
| 20              | 64QAM      | 1       | 49        | 22.97                | 22.98                   | 22.38                 | 22.7                |
| 20              | 64QAM      | 1       | 99        | 22.84                | 22.99                   | 21.87                 |                     |
| 20              | 64QAM      | 50      | 0         | 21.87                | 21.93                   | 21.49                 |                     |
| 20              | 64QAM      | 50      | 24        | 21.81                | 22.00                   | 21.57                 | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.79                | 21.97                   | 21.23                 |                     |
| 20              | 64QAM      | 100     | 0         | 21.89                | 22.01                   | 21.26                 |                     |
| Channel         |            |         |           | 26115                | 26340                   | 26615                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1862.5               | 1880                    | 1907.5                |                     |
| 15              | QPSK       | 1       | 0         | 24.52                | 24.87                   | 24.80                 | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.75                | 24.80                   | 24.87                 |                     |
| 15              | QPSK       | 1       | 74        | 24.72                | 24.82                   | 24.39                 |                     |
| 15              | QPSK       | 36      | 0         | 23.86                | 23.93                   | 23.99                 | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.89                | 24.02                   | 24.06                 |                     |
| 15              | QPSK       | 36      | 39        | 23.83                | 23.96                   | 23.88                 |                     |
| 15              | QPSK       | 75      | 0         | 23.89                | 23.90                   | 23.95                 | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.07                | 24.15                   | 24.19                 |                     |
| 15              | 16QAM      | 1       | 37        | 24.12                | 24.14                   | 24.22                 |                     |
| 15              | 16QAM      | 1       | 74        | 24.05                | 24.12                   | 23.75                 | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.86                | 22.95                   | 22.97                 |                     |
| 15              | 16QAM      | 36      | 20        | 22.83                | 23.01                   | 23.05                 |                     |
| 15              | 16QAM      | 36      | 39        | 22.84                | 22.96                   | 23.00                 | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.90                | 22.93                   | 22.98                 |                     |
| 15              | 64QAM      | 1       | 0         | 23.03                | 23.00                   | 22.46                 |                     |
| 15              | 64QAM      | 1       | 37        | 22.99                | 23.06                   | 22.62                 | 22.7                |
| 15              | 64QAM      | 1       | 74        | 22.74                | 23.02                   | 21.89                 |                     |
| 15              | 64QAM      | 36      | 0         | 21.92                | 21.98                   | 21.61                 |                     |
| 15              | 64QAM      | 36      | 20        | 21.94                | 22.03                   | 21.57                 | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.77                | 22.00                   | 21.24                 |                     |
| 15              | 64QAM      | 75      | 0         | 21.91                | 21.92                   | 21.31                 |                     |
| Channel         |            |         |           | 26090                | 26340                   | 26640                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                 | 1880                    | 1910                  |                     |
| 10              | QPSK       | 1       | 0         | 24.77                | 24.76                   | 24.87                 | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.70                | 24.79                   | 24.86                 |                     |
| 10              | QPSK       | 1       | 49        | 24.74                | 24.79                   | 24.53                 |                     |
| 10              | QPSK       | 25      | 0         | 23.90                | 23.86                   | 23.93                 | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.95                | 23.97                   | 23.98                 |                     |
| 10              | QPSK       | 25      | 25        | 23.92                | 23.97                   | 23.73                 |                     |
| 10              | QPSK       | 50      | 0         | 23.93                | 23.97                   | 23.87                 | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.14                | 24.15                   | 24.22                 |                     |
| 10              | 16QAM      | 1       | 25        | 24.13                | 24.18                   | 24.23                 |                     |
| 10              | 16QAM      | 1       | 49        | 24.11                | 24.17                   | 23.69                 | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.93                | 22.96                   | 22.93                 |                     |
| 10              | 16QAM      | 25      | 12        | 22.92                | 23.00                   | 22.98                 |                     |
| 10              | 16QAM      | 25      | 25        | 22.89                | 22.93                   | 22.91                 | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.92                | 22.97                   | 22.96                 |                     |
| 10              | 64QAM      | 1       | 0         | 23.01                | 22.97                   | 22.67                 |                     |
| 10              | 64QAM      | 1       | 25        | 23.08                | 23.10                   | 22.41                 | 22.7                |
| 10              | 64QAM      | 1       | 49        | 22.98                | 23.09                   | 21.84                 |                     |
| 10              | 64QAM      | 25      | 0         | 21.94                | 21.89                   | 21.52                 |                     |
| 10              | 64QAM      | 25      | 12        | 21.98                | 22.00                   | 21.37                 | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.94                | 22.00                   | 21.06                 |                     |
| 10              | 64QAM      | 50      | 0         | 21.96                | 22.02                   | 21.17                 |                     |
| Channel         |            |         |           | 26055                | 26340                   | 26655                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5               | 1880                    | 1912.5                |                     |
| 5               | QPSK       | 1       | 0         | 24.50                | 24.75                   | 24.92                 | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.84                | 24.89                   | 24.56                 |                     |
| 5               | QPSK       | 1       | 24        | 24.81                | 24.88                   | 24.29                 |                     |
| 5               | QPSK       | 12      | 0         | 23.88                | 23.91                   | 23.89                 | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.96                | 23.99                   | 23.76                 |                     |
| 5               | QPSK       | 12      | 13        | 23.98                | 23.99                   | 23.60                 |                     |
| 5               | QPSK       | 25      | 0         | 23.93                | 23.93                   | 23.64                 | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.22                | 24.11                   | 24.18                 |                     |
| 5               | 16QAM      | 1       | 12        | 24.13                | 24.19                   | 23.93                 |                     |
| 5               | 16QAM      | 1       | 24        | 24.15                | 24.18                   | 23.70                 | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.88                | 22.95                   | 23.01                 |                     |
| 5               | 16QAM      | 12      | 7         | 22.93                | 23.02                   | 22.88                 |                     |
| 5               | 16QAM      | 12      | 13        | 22.98                | 23.02                   | 22.75                 | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.96                | 22.97                   | 22.80                 |                     |
| 5               | 64QAM      | 1       | 0         | 23.07                | 23.01                   | 22.33                 |                     |
| 5               | 64QAM      | 1       | 12        | 23.05                | 23.07                   | 21.98                 | 22.7                |
| 5               | 64QAM      | 1       | 24        | 23.06                | 23.11                   | 21.75                 |                     |
| 5               | 64QAM      | 12      | 0         | 21.95                | 21.98                   | 21.17                 |                     |
| 5               | 64QAM      | 12      | 7         | 22.01                | 22.06                   | 21.93                 | 22.7                |
| 5               | 64QAM      | 12      | 13        | 22.03                | 22.08                   | 20.88                 |                     |
| 5               | 64QAM      | 25      | 0         | 21.93                | 22.00                   | 20.98                 |                     |
| Channel         |            |         |           | 26055                | 26340                   | 26675                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1851.5               | 1880                    | 1913.5                |                     |
| 3               | QPSK       | 1       | 0         | 24.72                | 24.71                   | 24.65                 | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.68                | 24.91                   | 24.53                 |                     |
| 3               | QPSK       | 1       | 14        | 24.85                | 24.90                   | 24.29                 |                     |
| 3               | QPSK       | 8       | 0         | 23.87                | 23.89                   | 23.71                 | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.92                | 23.98                   | 23.66                 |                     |
| 3               | QPSK       | 8       | 7         | 23.96                | 23.97                   | 23.54                 |                     |
| 3               | QPSK       | 15      | 0         | 23.93                | 23.96                   | 23.58                 | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.09                | 24.01                   | 23.89                 |                     |
| 3               | 16QAM      | 1       | 8         | 24.20                | 24.26                   | 23.84                 |                     |
| 3               | 16QAM      | 1       | 14        | 24.21                | 24.24                   | 23.63                 | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.92                | 22.95                   | 22.83                 |                     |
| 3               | 16QAM      | 8       | 4         | 23.03                | 23.04                   | 22.76                 |                     |
| 3               | 16QAM      | 8       | 7         | 23.01                | 23.02                   | 22.67                 | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.97                | 22.97                   | 22.70                 |                     |
| 3               | 64QAM      | 1       | 0         | 22.95                | 22.96                   | 22.01                 |                     |
| 3               | 64QAM      | 1       | 8         | 23.12                | 23.20                   | 21.98                 | 22.7                |
| 3               | 64QAM      | 1       | 14        | 23.11                | 23.16                   | 21.75                 |                     |
| 3               | 64QAM      | 8       | 0         | 21.93                | 22.00                   | 20.95                 |                     |
| 3               | 64QAM      | 8       | 4         | 21.99                | 22.07                   | 20.94                 | 22.7                |
| 3               | 64QAM      | 8       | 7         | 22.00                | 22.06                   | 20.84                 |                     |
| 3               | 64QAM      | 15      | 0         | 21.94                | 21.96                   | 20.88                 |                     |
| Channel         |            |         |           | 26047                | 26340                   | 26683                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1850.7               | 1880                    | 1914.3                |                     |
| 1.4             | QPSK       | 1       | 0         | 24.71                | 24.73                   | 24.37                 | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.80                | 24.83                   | 24.31                 |                     |
| 1.4             | QPSK       | 1       | 5         | 24.79                | 24.84                   | 24.20                 |                     |
| 1.4             | QPSK       | 3       | 0         | 24.78                | 24.81                   | 24.32                 | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.82                | 24.83                   | 24.33                 |                     |
| 1.4             | QPSK       | 3       | 5         | 24.77                | 24.85                   | 24.24                 |                     |
| 1.4             | QPSK       | 8       | 0         | 23.85                | 23.91                   | 23.41                 | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 24.05                | 24.05                   | 23.64                 |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.12                | 24.17                   | 23.64                 |                     |
| 1.4             | 16QAM      | 1       | 5         | 24.07                | 24.12                   | 23.54                 | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.81                | 23.87                   | 23.49                 |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.88                | 23.93                   | 23.48                 |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.84                | 23.93                   | 23.42                 | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.93                | 22.94                   | 22.59                 |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.97                | 22.97                   | 21.78                 |                     |
| 1.4             | 64QAM      | 1       | 3         | 23.08                | 23.12                   | 21.71                 | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 23.03                | 23.06                   | 21.72                 |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.92                | 22.98                   | 21.80                 |                     |
| 1.4             | 64QAM      | 3       | 1         | 23.00                | 23.05                   | 21.85                 | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.98                | 23.01                   | 21.71                 |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.90                | 21.93                   | 20.71                 |                     |



| Band 26         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 1           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26785          | 26865             | 26955           |                     |
| Frequency (MHz) |            |         |           | 821.5          | 831.5             | 841.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.45          | 24.40             | 24.62           | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.34          | 24.39             | 24.41           |                     |
| 15              | QPSK       | 1       | 74        | 24.35          | 24.39             | 24.31           |                     |
| 15              | QPSK       | 36      | 0         | 23.61          | 23.51             | 23.54           | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.52          | 23.49             | 23.50           |                     |
| 15              | QPSK       | 36      | 39        | 23.50          | 23.51             | 23.49           |                     |
| 15              | QPSK       | 75      | 0         | 23.54          | 23.48             | 23.52           | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.79          | 23.73             | 23.79           |                     |
| 15              | 16QAM      | 1       | 37        | 23.67          | 23.74             | 23.74           |                     |
| 15              | 16QAM      | 1       | 74        | 23.64          | 23.66             | 23.59           | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.51          | 22.54             | 22.56           |                     |
| 15              | 16QAM      | 36      | 20        | 22.53          | 22.51             | 22.50           |                     |
| 15              | 16QAM      | 36      | 39        | 22.50          | 22.53             | 22.54           | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.54          | 22.51             | 22.55           |                     |
| 15              | 64QAM      | 1       | 0         | 22.48          | 22.58             | 22.61           | 23.7                |
| 15              | 64QAM      | 1       | 37        | 22.43          | 22.68             | 22.68           |                     |
| 15              | 64QAM      | 1       | 74        | 22.57          | 22.61             | 21.80           |                     |
| 15              | 64QAM      | 36      | 0         | 21.21          | 21.58             | 21.60           | 22.7                |
| 15              | 64QAM      | 36      | 20        | 21.40          | 21.53             | 21.54           |                     |
| 15              | 64QAM      | 36      | 39        | 21.54          | 21.58             | 21.28           |                     |
| 15              | 64QAM      | 75      | 0         | 21.53          | 21.51             | 21.47           | Tune-up limit (dBm) |
| Channel         |            |         |           | 26740          | 26865             | 26959           |                     |
| Frequency (MHz) |            |         |           | 810            | 831.5             | 844             |                     |
| 10              | QPSK       | 1       | 0         | 24.56          | 24.50             | 24.50           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.44          | 24.47             | 24.45           |                     |
| 10              | QPSK       | 1       | 49        | 24.46          | 24.49             | 24.37           |                     |
| 10              | QPSK       | 25      | 0         | 23.64          | 23.56             | 23.57           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.58          | 23.54             | 23.57           |                     |
| 10              | QPSK       | 25      | 25        | 23.53          | 23.57             | 23.49           |                     |
| 10              | QPSK       | 50      | 0         | 23.67          | 23.53             | 23.49           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.92          | 23.87             | 23.87           |                     |
| 10              | 16QAM      | 1       | 25        | 23.85          | 23.87             | 23.86           |                     |
| 10              | 16QAM      | 1       | 49        | 23.86          | 23.90             | 23.75           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.62          | 22.57             | 22.57           |                     |
| 10              | 16QAM      | 25      | 12        | 22.60          | 22.55             | 22.57           |                     |
| 10              | 16QAM      | 25      | 25        | 22.63          | 22.56             | 22.53           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.58          | 22.54             | 22.54           |                     |
| 10              | 64QAM      | 1       | 0         | 22.49          | 22.73             | 22.76           |                     |
| 10              | 64QAM      | 1       | 25        | 22.33          | 22.80             | 22.64           | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.74          | 22.81             | 21.99           |                     |
| 10              | 64QAM      | 25      | 0         | 21.24          | 21.61             | 21.61           |                     |
| 10              | 64QAM      | 25      | 12        | 21.16          | 21.61             | 21.57           | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.31          | 21.58             | 20.80           |                     |
| 10              | 64QAM      | 50      | 0         | 21.26          | 21.57             | 21.38           |                     |
| Channel         |            |         |           | 26715          | 26865             | 27015           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 816.5          | 831.5             | 846.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.61          | 24.51             | 24.54           |                     |
| 5               | QPSK       | 1       | 12        | 24.56          | 24.55             | 24.17           | 25.7                |
| 5               | QPSK       | 1       | 24        | 24.46          | 24.53             | 24.41           |                     |
| 5               | QPSK       | 12      | 0         | 23.64          | 23.59             | 23.60           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.63          | 23.63             | 23.33           |                     |
| 5               | QPSK       | 12      | 13        | 23.58          | 23.56             | 23.38           |                     |
| 5               | QPSK       | 25      | 0         | 23.64          | 23.54             | 23.39           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.95          | 23.85             | 23.86           |                     |
| 5               | 16QAM      | 1       | 12        | 23.84          | 23.87             | 23.49           |                     |
| 5               | 16QAM      | 1       | 24        | 23.77          | 23.86             | 23.69           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.71          | 22.63             | 22.61           |                     |
| 5               | 16QAM      | 12      | 7         | 22.67          | 22.64             | 22.48           |                     |
| 5               | 16QAM      | 12      | 13        | 22.55          | 22.59             | 22.45           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.61          | 22.56             | 22.57           |                     |
| 5               | 64QAM      | 1       | 0         | 22.36          | 22.77             | 22.28           |                     |
| 5               | 64QAM      | 1       | 12        | 22.31          | 22.76             | 21.70           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.14          | 22.79             | 21.71           |                     |
| 5               | 64QAM      | 12      | 0         | 21.36          | 21.70             | 20.92           |                     |
| 5               | 64QAM      | 12      | 7         | 21.29          | 21.69             | 20.95           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.16          | 21.65             | 20.83           |                     |
| 5               | 64QAM      | 25      | 0         | 21.20          | 21.68             | 20.73           |                     |
| Channel         |            |         |           | 26706          | 26865             | 27025           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 815.5          | 831.5             | 847.5           |                     |
| 3               | QPSK       | 1       | 0         | 24.59          | 24.50             | 24.25           |                     |
| 3               | QPSK       | 1       | 8         | 24.60          | 24.57             | 24.26           | 25.7                |
| 3               | QPSK       | 1       | 14        | 24.46          | 24.50             | 24.37           |                     |
| 3               | QPSK       | 8       | 0         | 23.69          | 23.57             | 23.20           | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.68          | 23.63             | 23.32           |                     |
| 3               | QPSK       | 8       | 7         | 23.61          | 23.55             | 23.49           |                     |
| 3               | QPSK       | 15      | 0         | 23.66          | 23.59             | 23.29           | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.93          | 23.83             | 23.53           |                     |
| 3               | 16QAM      | 1       | 8         | 23.92          | 23.91             | 23.53           |                     |
| 3               | 16QAM      | 1       | 14        | 23.81          | 23.90             | 23.67           | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.74          | 22.63             | 22.36           |                     |
| 3               | 16QAM      | 8       | 4         | 22.75          | 22.67             | 22.45           |                     |
| 3               | 16QAM      | 8       | 7         | 22.65          | 22.66             | 22.54           | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.64          | 22.59             | 22.44           |                     |
| 3               | 64QAM      | 1       | 0         | 22.41          | 22.74             | 21.71           |                     |
| 3               | 64QAM      | 1       | 8         | 22.49          | 22.84             | 21.84           | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.30          | 22.80             | 21.76           |                     |
| 3               | 64QAM      | 8       | 0         | 21.40          | 21.65             | 20.75           |                     |
| 3               | 64QAM      | 8       | 4         | 21.44          | 21.72             | 20.79           | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.37          | 21.63             | 20.72           |                     |
| 3               | 64QAM      | 15      | 0         | 21.36          | 21.60             | 20.82           |                     |
| Channel         |            |         |           | 26697          | 26865             | 27033           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 814.7          | 831.5             | 848.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 24.54          | 24.43             | 24.20           |                     |
| 1.4             | QPSK       | 1       | 3         | 24.56          | 24.54             | 24.39           | 25.7                |
| 1.4             | QPSK       | 1       | 5         | 24.45          | 24.41             | 24.28           |                     |
| 1.4             | QPSK       | 3       | 0         | 24.56          | 24.43             | 24.39           |                     |
| 1.4             | QPSK       | 3       | 1         | 24.58          | 24.46             | 24.40           | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.53          | 24.46             | 24.36           |                     |
| 1.4             | QPSK       | 6       | 0         | 23.60          | 23.53             | 23.42           |                     |
| 1.4             | 16QAM      | 1       | 0         | 23.86          | 23.73             | 23.57           | 24.7                |
| 1.4             | 16QAM      | 1       | 3         | 23.90          | 23.90             | 23.76           |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.79          | 23.75             | 23.66           |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.62          | 23.52             | 23.44           | 23.7                |
| 1.4             | 16QAM      | 3       | 1         | 23.67          | 23.57             | 23.51           |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.58          | 23.54             | 23.43           |                     |
| 1.4             | 16QAM      | 6       | 0         | 22.66          | 22.58             | 22.52           | 23.7                |
| 1.4             | 64QAM      | 1       | 0         | 22.39          | 22.67             | 21.78           |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.45          | 22.75             | 21.75           |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.41          | 22.65             | 21.74           | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.39          | 22.66             | 21.80           |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.46          | 22.69             | 21.71           |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.43          | 22.64             | 21.82           | 22.7                |
| 1.4             | 64QAM      | 6       | 0         | 21.34          | 21.56             | 20.84           |                     |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |
| Channel         |            |         |           | 27710          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 2310           |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 22.92             |                 | 23.7                |
| 10              | QPSK       | 1       | 25        |                | 22.76             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 22.77             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 21.83             |                 | 22.7                |
| 10              | QPSK       | 25      | 12        |                | 21.88             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 21.97             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 21.86             |                 | 22.7                |
| 10              | 16QAM      | 1       | 0         |                | 22.20             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 22.17             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 22.20             |                 | 21.7                |
| 10              | 16QAM      | 25      | 0         |                | 20.84             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.88             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 20.99             |                 | 21.7                |
| 10              | 16QAM      | 50      | 0         |                | 20.87             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 21.04             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 21.09             |                 | 21.7                |
| 10              | 64QAM      | 1       | 49        |                | 21.04             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.87             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 19.92             |                 | 20.7                |
| 10              | 64QAM      | 25      | 25        |                | 20.00             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 19.89             |                 |                     |
| Channel         |            |         |           | 27685          | 27710             | 27735           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5         | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 22.75          | 22.76             | 22.76           | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.89          | 22.90             | 22.87           |                     |
| 5               | QPSK       | 1       | 24        | 22.91          | 22.88             | 22.86           |                     |
| 5               | QPSK       | 12      | 0         | 21.90          | 21.85             | 21.87           | 22.7                |
| 5               | QPSK       | 12      | 7         | 21.95          | 21.97             | 21.93           |                     |
| 5               | QPSK       | 12      | 13        | 21.96          | 21.96             | 21.93           |                     |
| 5               | QPSK       | 25      | 0         | 21.93          | 21.87             | 21.90           | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.08          | 22.07             | 22.10           |                     |
| 5               | 16QAM      | 1       | 12        | 22.14          | 22.14             | 22.12           |                     |
| 5               | 16QAM      | 1       | 24        | 22.18          | 22.21             | 22.15           | 21.7                |
| 5               | 16QAM      | 12      | 0         | 20.92          | 20.87             | 20.90           |                     |
| 5               | 16QAM      | 12      | 7         | 20.96          | 20.99             | 20.95           |                     |
| 5               | 16QAM      | 12      | 13        | 20.97          | 20.97             | 20.94           | 21.7                |
| 5               | 16QAM      | 25      | 0         | 20.96          | 20.90             | 20.93           |                     |
| 5               | 64QAM      | 1       | 0         | 20.98          | 21.06             | 21.06           |                     |
| 5               | 64QAM      | 1       | 12        | 21.04          | 21.09             | 21.07           | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.12          | 21.13             | 21.12           |                     |
| 5               | 64QAM      | 12      | 0         | 19.99          | 19.91             | 19.96           |                     |
| 5               | 64QAM      | 12      | 7         | 20.03          | 20.03             | 20.00           | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.02          | 20.02             | 20.00           |                     |
| 5               | 64QAM      | 25      | 0         | 19.98          | 19.94             | 19.94           |                     |



| Band 66         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 132072         | 132322            | 132572          |                     |
| Frequency (MHz) |            |         |           | 1720           | 1745              | 1770            |                     |
| 20              | QPSK       | 1       | 0         | 24.56          | 24.59             | 24.79           | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.39          | 24.48             | 24.52           |                     |
| 20              | QPSK       | 1       | 99        | 24.55          | 24.55             | 24.44           |                     |
| 20              | QPSK       | 50      | 0         | 23.67          | 23.67             | 23.71           | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.64          | 23.64             | 23.69           |                     |
| 20              | QPSK       | 50      | 50        | 23.65          | 23.68             | 23.72           |                     |
| 20              | QPSK       | 100     | 0         | 23.63          | 23.61             | 23.68           | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.91          | 23.92             | 24.01           |                     |
| 20              | 16QAM      | 1       | 49        | 23.77          | 23.83             | 23.86           |                     |
| 20              | 16QAM      | 1       | 99        | 23.67          | 23.66             | 23.81           | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.58          | 22.58             | 22.74           |                     |
| 20              | 16QAM      | 50      | 24        | 22.64          | 22.64             | 22.68           |                     |
| 20              | 16QAM      | 50      | 50        | 22.64          | 22.70             | 22.72           | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.63          | 22.59             | 22.71           |                     |
| 20              | 64QAM      | 1       | 0         | 22.74          | 22.85             | 22.81           |                     |
| 20              | 64QAM      | 1       | 49        | 22.64          | 22.74             | 22.89           | 22.7                |
| 20              | 64QAM      | 1       | 99        | 22.76          | 22.76             | 22.71           |                     |
| 20              | 64QAM      | 50      | 0         | 21.59          | 21.68             | 21.76           |                     |
| 20              | 64QAM      | 50      | 24        | 21.67          | 21.67             | 21.71           | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.63          | 21.72             | 21.75           |                     |
| 20              | 64QAM      | 100     | 0         | 21.69          | 21.64             | 21.71           |                     |
| Channel         |            |         |           | 132547         | 132322            | 132597          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5         | 1745              | 1772.5          |                     |
| 15              | QPSK       | 1       | 0         | 24.52          | 24.62             | 24.65           | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.41          | 24.54             | 24.56           |                     |
| 15              | QPSK       | 1       | 74        | 24.54          | 24.58             | 24.55           |                     |
| 15              | QPSK       | 36      | 0         | 23.60          | 23.67             | 23.72           | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.66          | 23.65             | 23.70           |                     |
| 15              | QPSK       | 36      | 39        | 23.62          | 23.70             | 23.74           |                     |
| 15              | QPSK       | 75      | 0         | 23.64          | 23.64             | 23.71           | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.81          | 23.96             | 23.98           |                     |
| 15              | 16QAM      | 1       | 37        | 23.78          | 23.88             | 23.92           |                     |
| 15              | 16QAM      | 1       | 74        | 23.84          | 23.92             | 23.84           | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.58          | 22.68             | 22.70           |                     |
| 15              | 16QAM      | 36      | 20        | 22.62          | 22.65             | 22.67           |                     |
| 15              | 16QAM      | 36      | 39        | 22.62          | 22.71             | 22.72           | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.65          | 22.67             | 22.71           |                     |
| 15              | 64QAM      | 1       | 0         | 22.69          | 22.80             | 22.83           |                     |
| 15              | 64QAM      | 1       | 37        | 22.67          | 22.74             | 22.80           | 22.7                |
| 15              | 64QAM      | 1       | 74        | 22.76          | 22.81             | 22.72           |                     |
| 15              | 64QAM      | 36      | 0         | 21.60          | 21.71             | 21.76           |                     |
| 15              | 64QAM      | 36      | 20        | 21.64          | 21.64             | 21.69           | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.68          | 21.72             | 21.75           |                     |
| 15              | 64QAM      | 75      | 0         | 21.65          | 21.67             | 21.72           |                     |
| Channel         |            |         |           | 132022         | 132322            | 132622          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715           | 1745              | 1775            |                     |
| 10              | QPSK       | 1       | 0         | 24.57          | 24.58             | 24.70           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.55          | 24.64             | 24.65           |                     |
| 10              | QPSK       | 1       | 49        | 24.55          | 24.61             | 24.66           |                     |
| 10              | QPSK       | 25      | 0         | 23.64          | 23.69             | 23.73           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.65          | 23.71             | 23.72           |                     |
| 10              | QPSK       | 25      | 25        | 23.65          | 23.75             | 23.78           |                     |
| 10              | QPSK       | 50      | 0         | 23.68          | 23.69             | 23.74           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.97          | 24.04             | 24.05           |                     |
| 10              | 16QAM      | 1       | 25        | 23.91          | 24.02             | 24.03           |                     |
| 10              | 16QAM      | 1       | 49        | 23.92          | 23.99             | 24.04           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.66          | 22.68             | 22.73           |                     |
| 10              | 16QAM      | 25      | 12        | 22.67          | 22.71             | 22.74           |                     |
| 10              | 16QAM      | 25      | 25        | 22.65          | 22.74             | 22.77           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.67          | 22.69             | 22.73           |                     |
| 10              | 64QAM      | 1       | 0         | 22.85          | 22.87             | 22.77           |                     |
| 10              | 64QAM      | 1       | 25        | 22.81          | 22.94             | 22.96           | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.83          | 22.92             | 22.95           |                     |
| 10              | 64QAM      | 25      | 0         | 21.66          | 21.72             | 21.75           |                     |
| 10              | 64QAM      | 25      | 12        | 21.72          | 21.73             | 21.76           | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.70          | 21.77             | 21.78           |                     |
| 10              | 64QAM      | 50      | 0         | 21.72          | 21.72             | 21.78           |                     |
| Channel         |            |         |           | 131987         | 132322            | 132657          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5         | 1745              | 1772.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.57          | 24.61             | 24.73           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.59          | 24.69             | 24.71           |                     |
| 5               | QPSK       | 1       | 24        | 24.54          | 24.66             | 24.71           |                     |
| 5               | QPSK       | 12      | 0         | 23.66          | 23.71             | 23.81           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.68          | 23.79             | 23.81           |                     |
| 5               | QPSK       | 12      | 13        | 23.63          | 23.78             | 23.81           |                     |
| 5               | QPSK       | 25      | 0         | 23.65          | 23.70             | 23.79           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.93          | 23.95             | 24.04           |                     |
| 5               | 16QAM      | 1       | 12        | 23.95          | 24.02             | 24.03           |                     |
| 5               | 16QAM      | 1       | 24        | 23.91          | 23.99             | 24.03           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.70          | 22.75             | 22.85           |                     |
| 5               | 16QAM      | 12      | 7         | 22.73          | 22.81             | 22.86           |                     |
| 5               | 16QAM      | 12      | 13        | 22.70          | 22.77             | 22.81           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.67          | 22.70             | 22.79           |                     |
| 5               | 64QAM      | 1       | 0         | 22.84          | 22.84             | 23.03           |                     |
| 5               | 64QAM      | 1       | 12        | 22.90          | 22.96             | 22.98           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.87          | 22.94             | 22.91           |                     |
| 5               | 64QAM      | 12      | 0         | 21.73          | 21.76             | 21.87           |                     |
| 5               | 64QAM      | 12      | 7         | 21.78          | 21.84             | 21.87           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.69          | 21.82             | 21.82           |                     |
| 5               | 64QAM      | 25      | 0         | 21.68          | 21.73             | 21.83           |                     |
| Channel         |            |         |           | 131987         | 132322            | 132657          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5         | 1745              | 1775.5          |                     |
| 3               | QPSK       | 1       | 0         | 24.59          | 24.64             | 24.72           | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.64          | 24.74             | 24.78           |                     |
| 3               | QPSK       | 1       | 14        | 24.58          | 24.66             | 24.67           |                     |
| 3               | QPSK       | 8       | 0         | 23.68          | 23.70             | 23.76           | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.69          | 23.80             | 23.79           |                     |
| 3               | QPSK       | 8       | 7         | 23.67          | 23.72             | 23.76           |                     |
| 3               | QPSK       | 15      | 0         | 23.68          | 23.67             | 23.78           | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.92          | 23.98             | 24.05           |                     |
| 3               | 16QAM      | 1       | 8         | 24.00          | 24.10             | 24.14           |                     |
| 3               | 16QAM      | 1       | 14        | 23.89          | 24.00             | 24.00           | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.72          | 22.78             | 22.86           |                     |
| 3               | 16QAM      | 8       | 4         | 22.77          | 22.83             | 22.89           |                     |
| 3               | 16QAM      | 8       | 7         | 22.72          | 22.84             | 22.81           | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.70          | 22.75             | 22.79           |                     |
| 3               | 64QAM      | 1       | 0         | 22.82          | 22.93             | 22.94           |                     |
| 3               | 64QAM      | 1       | 8         | 22.93          | 23.05             | 23.03           | 22.7                |
| 3               | 64QAM      | 1       | 14        | 22.85          | 22.99             | 22.97           |                     |
| 3               | 64QAM      | 8       | 0         | 21.76          | 21.73             | 21.81           |                     |
| 3               | 64QAM      | 8       | 4         | 21.78          | 21.82             | 21.87           | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.75          | 21.81             | 21.84           |                     |
| 3               | 64QAM      | 15      | 0         | 21.69          | 21.74             | 21.81           |                     |
| Channel         |            |         |           | 131012         | 132322            | 132655          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7         | 1745              | 1779.3          |                     |
| 1.4             | QPSK       | 1       | 0         | 24.47          | 24.62             | 24.61           | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.56          | 24.66             | 24.71           |                     |
| 1.4             | QPSK       | 1       | 5         | 24.51          | 24.58             | 24.65           |                     |
| 1.4             | QPSK       | 3       | 0         | 24.52          | 24.63             | 24.65           | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.58          | 24.68             | 24.71           |                     |
| 1.4             | QPSK       | 3       | 3         | 24.53          | 24.64             | 24.66           |                     |
| 1.4             | QPSK       | 8       | 0         | 23.60          | 23.70             | 23.71           | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.83          | 23.94             | 23.95           |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.92          | 24.01             | 24.03           |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.84          | 23.93             | 23.94           | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.62          | 23.75             | 23.76           |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.68          | 23.79             | 23.80           |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.61          | 23.71             | 23.72           | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.67          | 22.76             | 22.77           |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.76          | 22.88             | 22.91           |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.84          | 22.94             | 22.95           | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.80          | 22.87             | 22.89           |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.76          | 22.82             | 22.89           |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.79          | 22.88             | 22.92           | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.75          | 22.85             | 22.87           |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.62          | 21.73             | 21.75           |                     |



| Band 71         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 1           |            |         |           |                |                   |                 |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222         | 133322            | 133372          |                     |
| Frequency (MHz) |            |         |           | 673            | 683               | 688             |                     |
| 20              | QPSK       | 1       | 0         | 24.67          | 24.60             | 24.58           | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.58          | 24.59             | 24.56           |                     |
| 20              | QPSK       | 1       | 99        | 24.61          | 24.56             | 24.53           |                     |
| 20              | QPSK       | 50      | 0         | 23.69          | 23.68             | 23.64           | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.74          | 23.67             | 23.63           |                     |
| 20              | QPSK       | 50      | 50        | 23.75          | 23.69             | 23.68           |                     |
| 20              | QPSK       | 100     | 0         | 23.72          | 23.66             | 23.71           | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.99          | 23.90             | 23.92           |                     |
| 20              | 16QAM      | 1       | 49        | 23.94          | 23.93             | 23.91           |                     |
| 20              | 16QAM      | 1       | 99        | 23.97          | 23.91             | 23.93           | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.69          | 22.68             | 22.67           |                     |
| 20              | 16QAM      | 50      | 24        | 22.75          | 22.68             | 22.66           |                     |
| 20              | 16QAM      | 50      | 50        | 22.75          | 22.73             | 22.68           | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.72          | 22.65             | 22.70           |                     |
| 20              | 64QAM      | 1       | 0         | 21.88          | 22.69             | 22.77           |                     |
| 20              | 64QAM      | 1       | 49        | 22.51          | 22.82             | 22.02           | 22.7                |
| 20              | 64QAM      | 1       | 99        | 22.87          | 22.66             | 22.55           |                     |
| 20              | 64QAM      | 50      | 0         | 20.78          | 21.69             | 21.35           |                     |
| 20              | 64QAM      | 50      | 24        | 21.19          | 21.42             | 21.50           | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.70          | 21.49             | 21.63           |                     |
| 20              | 64QAM      | 100     | 0         | 21.39          | 21.66             | 21.66           |                     |
| Channel         |            |         |           | 133197         | 133297            | 133397          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 680.5          | 690.5             | 690.6           |                     |
| 15              | QPSK       | 1       | 0         | 24.65          | 24.60             | 24.56           | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.55          | 24.58             | 24.52           |                     |
| 15              | QPSK       | 1       | 74        | 24.58          | 24.62             | 24.55           |                     |
| 15              | QPSK       | 36      | 0         | 23.67          | 23.69             | 23.61           | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.75          | 23.67             | 23.71           |                     |
| 15              | QPSK       | 36      | 39        | 23.65          | 23.71             | 23.65           |                     |
| 15              | QPSK       | 75      | 0         | 23.73          | 23.65             | 23.60           | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.04          | 23.93             | 23.89           |                     |
| 15              | 16QAM      | 1       | 37        | 23.69          | 23.98             | 23.91           |                     |
| 15              | 16QAM      | 1       | 74        | 23.91          | 23.91             | 23.90           | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.63          | 22.67             | 22.63           |                     |
| 15              | 16QAM      | 36      | 20        | 22.72          | 22.69             | 22.71           |                     |
| 15              | 16QAM      | 36      | 39        | 22.68          | 22.71             | 22.66           | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.75          | 22.67             | 22.82           |                     |
| 15              | 64QAM      | 1       | 0         | 21.76          | 22.28             | 22.61           |                     |
| 15              | 64QAM      | 1       | 37        | 21.70          | 22.87             | 22.80           | 22.7                |
| 15              | 64QAM      | 1       | 74        | 22.85          | 22.43             | 22.62           |                     |
| 15              | 64QAM      | 36      | 0         | 20.76          | 21.71             | 21.42           |                     |
| 15              | 64QAM      | 36      | 20        | 20.68          | 21.69             | 21.75           | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.38          | 21.40             | 21.71           |                     |
| 15              | 64QAM      | 75      | 0         | 21.18          | 21.65             | 21.52           |                     |
| Channel         |            |         |           | 133172         | 133272            | 133422          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668            | 678               | 693             |                     |
| 10              | QPSK       | 1       | 0         | 24.67          | 24.56             | 24.57           | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.53          | 24.56             | 24.57           |                     |
| 10              | QPSK       | 1       | 49        | 24.62          | 24.64             | 24.53           |                     |
| 10              | QPSK       | 25      | 0         | 23.73          | 23.62             | 23.60           | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.69          | 23.75             | 23.62           |                     |
| 10              | QPSK       | 25      | 25        | 23.63          | 23.70             | 23.65           |                     |
| 10              | QPSK       | 50      | 0         | 23.73          | 23.74             | 23.61           | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.03          | 23.97             | 23.96           |                     |
| 10              | 16QAM      | 1       | 25        | 23.89          | 23.97             | 23.94           |                     |
| 10              | 16QAM      | 1       | 49        | 23.96          | 24.00             | 23.86           | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.59          | 22.65             | 22.60           |                     |
| 10              | 16QAM      | 25      | 12        | 22.52          | 22.74             | 22.63           |                     |
| 10              | 16QAM      | 25      | 25        | 22.54          | 22.71             | 22.65           | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.73          | 22.73             | 22.59           |                     |
| 10              | 64QAM      | 1       | 0         | 21.71          | 22.19             | 22.73           |                     |
| 10              | 64QAM      | 1       | 25        | 21.61          | 22.39             | 22.30           | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.02          | 22.82             | 22.25           |                     |
| 10              | 64QAM      | 25      | 0         | 20.70          | 21.54             | 21.63           |                     |
| 10              | 64QAM      | 25      | 12        | 20.65          | 21.76             | 21.61           | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.65          | 21.66             | 21.37           |                     |
| 10              | 64QAM      | 50      | 0         | 20.70          | 21.66             | 21.58           |                     |
| Channel         |            |         |           | 133147         | 133247            | 133497          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5          | 675.5             | 695.6           |                     |
| 5               | QPSK       | 1       | 0         | 24.33          | 24.63             | 24.62           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.52          | 24.59             | 24.59           |                     |
| 5               | QPSK       | 1       | 24        | 24.57          | 24.62             | 24.51           |                     |
| 5               | QPSK       | 12      | 0         | 23.49          | 23.69             | 23.64           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.63          | 23.70             | 23.68           |                     |
| 5               | QPSK       | 12      | 13        | 23.60          | 23.68             | 23.61           |                     |
| 5               | QPSK       | 25      | 0         | 23.60          | 23.69             | 23.59           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.66          | 23.99             | 23.92           |                     |
| 5               | 16QAM      | 1       | 12        | 23.86          | 23.94             | 23.87           |                     |
| 5               | 16QAM      | 1       | 24        | 23.80          | 23.94             | 23.83           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.42          | 22.74             | 22.69           |                     |
| 5               | 16QAM      | 12      | 7         | 22.60          | 22.75             | 22.70           |                     |
| 5               | 16QAM      | 12      | 13        | 22.61          | 22.70             | 22.63           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.52          | 22.72             | 22.63           |                     |
| 5               | 64QAM      | 1       | 0         | 21.83          | 21.95             | 22.65           |                     |
| 5               | 64QAM      | 1       | 12        | 21.71          | 22.83             | 22.44           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.72          | 22.86             | 21.98           |                     |
| 5               | 64QAM      | 12      | 0         | 20.70          | 21.46             | 21.42           |                     |
| 5               | 64QAM      | 12      | 7         | 20.79          | 21.76             | 21.57           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.80          | 21.72             | 21.38           |                     |
| 5               | 64QAM      | 25      | 0         | 20.77          | 21.50             | 21.21           |                     |



| Band 2          |            |         |           |                |                |                 |                     |                     |  |  |  |
|-----------------|------------|---------|-----------|----------------|----------------|-----------------|---------------------|---------------------|--|--|--|
| Ant 2           |            |         |           |                |                |                 |                     |                     |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Mid Ch./ | Power High Ch./ | Tune-up limit (dBm) |                     |  |  |  |
| Channel         |            |         |           | 18700          | 18900          | 19100           |                     |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1860           | 1880           | 1900            |                     |                     |  |  |  |
| 20              | QPSK       | 1       | 0         | 24.53          | 24.68          | 24.96           | 25.7                |                     |  |  |  |
| 20              | QPSK       | 1       | 49        | 24.53          | 24.72          | 24.75           |                     |                     |  |  |  |
| 20              | QPSK       | 1       | 99        | 24.52          | 24.71          | 24.80           |                     |                     |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.61          | 23.75          | 23.86           | 24.7                |                     |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.73          | 23.80          | 23.89           |                     |                     |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.71          | 23.88          | 23.97           |                     |                     |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.72          | 23.77          | 23.87           | 24.7                |                     |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.88          | 24.03          | 24.14           |                     |                     |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.87          | 24.06          | 24.07           |                     |                     |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.83          | 24.02          | 24.16           | 23.7                |                     |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.64          | 22.77          | 22.88           |                     |                     |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.74          | 22.80          | 22.88           |                     |                     |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.73          | 22.89          | 22.97           | 23.7                |                     |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.72          | 22.75          | 22.89           |                     |                     |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.72          | 22.88          | 23.02           |                     |                     |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.78          | 22.91          | 22.11           | 23.7                |                     |  |  |  |
| 20              | 64QAM      | 1       | 99        | 22.86          | 22.94          | 22.83           |                     |                     |  |  |  |
| 20              | 64QAM      | 50      | 0         | 21.65          | 21.78          | 21.34           |                     |                     |  |  |  |
| 20              | 64QAM      | 50      | 24        | 21.76          | 21.84          | 21.35           | 22.7                |                     |  |  |  |
| 20              | 64QAM      | 50      | 50        | 21.60          | 21.91          | 21.81           |                     |                     |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.70          | 21.81          | 21.42           |                     |                     |  |  |  |
| Channel         |            |         |           | 18675          | 18900          | 19125           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1857.5         | 1880           | 1902.5          |                     |                     |  |  |  |
| 15              | QPSK       | 1       | 0         | 24.54          | 24.73          | 24.81           | 25.7                |                     |  |  |  |
| 15              | QPSK       | 1       | 37        | 24.56          | 24.72          | 24.81           |                     |                     |  |  |  |
| 15              | QPSK       | 1       | 74        | 24.59          | 24.72          | 24.85           |                     |                     |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.64          | 23.75          | 23.85           | 24.7                |                     |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.74          | 23.80          | 23.98           |                     |                     |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.72          | 23.90          | 23.99           |                     |                     |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.71          | 23.79          | 23.91           | 24.7                |                     |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.80          | 24.04          | 24.13           |                     |                     |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.88          | 24.02          | 24.12           |                     |                     |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.89          | 24.05          | 24.19           | 24.7                |                     |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.62          | 22.77          | 22.86           |                     |                     |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.71          | 22.80          | 22.96           |                     |                     |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.72          | 22.90          | 22.99           | 23.7                |                     |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.72          | 22.81          | 22.91           |                     |                     |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.74          | 22.87          | 22.97           |                     |                     |  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.63          | 22.97          | 22.76           | 23.7                |                     |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.67          | 21.81          | 21.25           |                     |                     |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.77          | 21.85          | 21.57           |                     |                     |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.68          | 21.94          | 21.75           | 22.7                |                     |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.73          | 21.83          | 21.44           |                     |                     |  |  |  |
| Channel         |            |         |           | 18650          | 18900          | 19150           |                     | Tune-up limit (dBm) |  |  |  |
| Frequency (MHz) |            |         |           | 1855           | 1880           | 1905            |                     |                     |  |  |  |
| 10              | QPSK       | 1       | 0         | 24.53          | 24.68          | 24.83           | 25.7                |                     |  |  |  |
| 10              | QPSK       | 1       | 25        | 24.54          | 24.73          | 24.84           |                     |                     |  |  |  |
| 10              | QPSK       | 1       | 49        | 24.58          | 24.76          | 24.85           |                     |                     |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.66          | 23.76          | 23.86           | 24.7                |                     |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.72          | 23.81          | 23.91           |                     |                     |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.71          | 23.90          | 24.02           |                     |                     |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.69          | 23.80          | 23.93           | 24.7                |                     |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.92          | 24.09          | 24.18           |                     |                     |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.93          | 24.12          | 24.27           |                     |                     |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.94          | 24.12          | 24.24           | 24.7                |                     |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.84          | 22.75          | 22.85           |                     |                     |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.71          | 22.82          | 22.91           |                     |                     |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.72          | 22.87          | 23.02           | 23.7                |                     |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.69          | 22.80          | 22.92           |                     |                     |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.84          | 22.95          | 22.38           |                     |                     |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.85          | 23.07          | 22.86           | 23.7                |                     |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.84          | 23.07          | 22.84           |                     |                     |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.89          | 21.78          | 21.47           |                     |                     |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.76          | 21.85          | 21.75           | 22.7                |                     |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.74          | 21.92          | 21.76           |                     |                     |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.71          | 21.82          | 21.56           |                     |                     |  |  |  |
| Channel         |            |         |           | 1855           | 1880           | 1905            | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1855           | 1880           | 1905            |                     |                     |  |  |  |
| 5               | QPSK       | 1       | 0         | 24.55          | 24.66          | 24.86           | 25.7                |                     |  |  |  |
| 5               | QPSK       | 1       | 12        | 24.62          | 24.80          | 24.92           |                     |                     |  |  |  |
| 5               | QPSK       | 1       | 24        | 24.60          | 24.81          | 24.95           |                     |                     |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.68          | 23.77          | 23.98           | 24.7                |                     |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.70          | 23.90          | 24.00           |                     |                     |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.68          | 23.90          | 24.03           |                     |                     |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.67          | 23.80          | 23.98           | 24.7                |                     |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.86          | 23.97          | 24.26           |                     |                     |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.90          | 24.09          | 24.24           |                     |                     |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.94          | 24.12          | 24.28           | 24.7                |                     |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.68          | 22.82          | 23.00           |                     |                     |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.71          | 22.94          | 23.02           |                     |                     |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.72          | 22.88          | 23.03           | 23.7                |                     |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.71          | 22.81          | 23.04           |                     |                     |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.87          | 22.98          | 22.73           |                     |                     |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.80          | 23.03          | 22.88           | 23.7                |                     |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.87          | 23.06          | 22.75           |                     |                     |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.73          | 21.85          | 21.81           |                     |                     |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.79          | 21.95          | 21.84           | 22.7                |                     |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.75          | 21.82          | 21.72           |                     |                     |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.68          | 21.82          | 21.84           |                     |                     |  |  |  |
| Channel         |            |         |           | 18615          | 18900          | 19185           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1851.5         | 1880           | 1908.5          |                     |                     |  |  |  |
| 3               | QPSK       | 1       | 0         | 24.55          | 24.69          | 24.88           | 25.7                |                     |  |  |  |
| 3               | QPSK       | 1       | 8         | 24.64          | 24.83          | 24.95           |                     |                     |  |  |  |
| 3               | QPSK       | 1       | 14        | 24.58          | 24.79          | 24.93           |                     |                     |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.67          | 23.80          | 23.97           | 24.7                |                     |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.70          | 23.90          | 24.01           |                     |                     |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.64          | 23.87          | 23.99           |                     |                     |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.64          | 23.80          | 23.99           | 24.7                |                     |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.83          | 23.99          | 24.18           |                     |                     |  |  |  |
| 3               | 16QAM      | 1       | 8         | 23.96          | 24.14          | 24.25           |                     |                     |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.94          | 24.10          | 24.25           | 24.7                |                     |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.72          | 22.86          | 23.05           |                     |                     |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.77          | 22.96          | 23.06           |                     |                     |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.71          | 22.95          | 23.06           | 23.7                |                     |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.69          | 22.82          | 22.99           |                     |                     |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.81          | 23.01          | 22.83           |                     |                     |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.94          | 23.12          | 22.86           | 23.7                |                     |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.84          | 23.06          | 22.70           |                     |                     |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.73          | 21.83          | 21.74           |                     |                     |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.75          | 21.95          | 21.76           | 22.7                |                     |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.71          | 21.93          | 21.68           |                     |                     |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.71          | 21.81          | 21.66           |                     |                     |  |  |  |
| Channel         |            |         |           | 18607          | 18900          | 19193           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 18507          | 1880           | 1909.3          |                     |                     |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.46          | 24.67          | 24.82           | 25.7                |                     |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.54          | 24.74          | 24.90           |                     |                     |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.47          | 24.69          | 24.84           |                     |                     |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.54          | 24.71          | 24.84           | 24.7                |                     |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.58          | 24.77          | 24.88           |                     |                     |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.52          | 24.73          | 24.85           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.82          | 23.99          | 24.18           | 24.7                |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.84          | 24.03          | 24.23           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.82          | 24.01          | 24.17           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.60          | 23.79          | 23.91           | 24.7                |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.66          | 23.85          | 23.97           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.59          | 23.79          | 23.88           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.65          | 22.84          | 22.97           | 23.7                |                     |  |  |  |
| 1.4             | 16QAM      | 6       | 1         | 22.70          | 22.90          | 23.03           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.84          | 23.05          | 22.88           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.77          | 22.98          | 22.58           | 23.7                |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.72          | 22.93          | 22.63           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.79          | 22.99          | 22.69           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.74          | 22.94          | 22.56           |                     |                     |  |  |  |



| Band 4          |            |         |           |                            |                            |                             |                       |                       |  |
|-----------------|------------|---------|-----------|----------------------------|----------------------------|-----------------------------|-----------------------|-----------------------|--|
| Ant 2           |            |         |           |                            |                            |                             |                       |                       |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch /<br>20060 | Power<br>Mid Ch /<br>20175 | Power<br>High Ch /<br>20300 | Tune-up<br>unit (dBm) |                       |  |
| Channel         |            |         |           | 20060                      | 20175                      | 20300                       |                       |                       |  |
| Frequency (MHz) |            |         |           | 1720                       | 1732.5                     | 1745                        |                       |                       |  |
| 20              | QPSK       | 1       | 0         | 24.42                      | 24.50                      | 24.45                       | 25.7                  |                       |  |
| 20              | QPSK       | 1       | 49        | 24.32                      | 24.32                      | 24.33                       |                       |                       |  |
| 20              | QPSK       | 1       | 99        | 24.31                      | 24.35                      | 24.31                       |                       |                       |  |
| 20              | QPSK       | 50      | 0         | 23.47                      | 23.50                      | 23.54                       | 24.7                  |                       |  |
| 20              | QPSK       | 50      | 24        | 23.51                      | 23.53                      | 23.54                       |                       |                       |  |
| 20              | QPSK       | 50      | 50        | 23.46                      | 23.43                      | 23.48                       |                       |                       |  |
| 20              | QPSK       | 100     | 0         | 23.50                      | 23.60                      | 23.41                       | 24.7                  |                       |  |
| 20              | 16QAM      | 1       | 0         | 23.78                      | 23.83                      | 23.76                       |                       |                       |  |
| 20              | 16QAM      | 1       | 49        | 23.66                      | 23.64                      | 23.66                       |                       |                       |  |
| 20              | 16QAM      | 1       | 99        | 23.69                      | 23.66                      | 23.60                       | 23.7                  |                       |  |
| 20              | 16QAM      | 50      | 0         | 22.49                      | 22.54                      | 22.55                       |                       |                       |  |
| 20              | 16QAM      | 50      | 24        | 22.52                      | 22.55                      | 22.53                       |                       |                       |  |
| 20              | 16QAM      | 50      | 50        | 22.46                      | 22.45                      | 22.46                       | 22.7                  |                       |  |
| 20              | 16QAM      | 100     | 0         | 22.49                      | 22.56                      | 22.42                       |                       |                       |  |
| 20              | 64QAM      | 1       | 0         | 22.24                      | 22.68                      | 22.19                       |                       |                       |  |
| 20              | 64QAM      | 1       | 49        | 22.53                      | 22.52                      | 22.56                       | 23.7                  |                       |  |
| 20              | 64QAM      | 1       | 99        | 22.58                      | 22.03                      | 22.57                       |                       |                       |  |
| 20              | 64QAM      | 50      | 0         | 21.50                      | 21.54                      | 21.24                       |                       |                       |  |
| 20              | 64QAM      | 50      | 24        | 21.54                      | 21.45                      | 21.56                       | 22.7                  |                       |  |
| 20              | 64QAM      | 50      | 50        | 21.47                      | 21.07                      | 21.46                       |                       |                       |  |
| 20              | 64QAM      | 100     | 0         | 21.54                      | 21.56                      | 21.48                       |                       |                       |  |
| Channel         |            |         |           | 20025                      | 20175                      | 20325                       | Tune-up<br>unit (dBm) |                       |  |
| Frequency (MHz) |            |         |           | 1717.5                     | 1732.5                     | 1747.5                      |                       |                       |  |
| 15              | QPSK       | 1       | 0         | 24.44                      | 24.48                      | 24.49                       | 25.7                  |                       |  |
| 15              | QPSK       | 1       | 37        | 24.29                      | 24.32                      | 24.34                       |                       |                       |  |
| 15              | QPSK       | 1       | 74        | 24.31                      | 24.31                      | 24.30                       |                       |                       |  |
| 15              | QPSK       | 36      | 0         | 23.55                      | 23.55                      | 23.51                       | 24.7                  |                       |  |
| 15              | QPSK       | 36      | 20        | 23.49                      | 23.52                      | 23.53                       |                       |                       |  |
| 15              | QPSK       | 36      | 39        | 23.44                      | 23.46                      | 23.45                       |                       |                       |  |
| 15              | QPSK       | 75      | 0         | 23.49                      | 23.54                      | 23.45                       | 24.7                  |                       |  |
| 15              | 16QAM      | 1       | 0         | 23.73                      | 23.80                      | 23.81                       |                       |                       |  |
| 15              | 16QAM      | 1       | 37        | 23.59                      | 23.63                      | 23.68                       |                       |                       |  |
| 15              | 16QAM      | 1       | 74        | 23.63                      | 23.62                      | 23.61                       | 23.7                  |                       |  |
| 15              | 16QAM      | 36      | 0         | 22.53                      | 22.50                      | 22.51                       |                       |                       |  |
| 15              | 16QAM      | 36      | 20        | 22.47                      | 22.50                      | 22.52                       |                       |                       |  |
| 15              | 16QAM      | 36      | 39        | 22.45                      | 22.44                      | 22.45                       | 23.7                  |                       |  |
| 15              | 16QAM      | 75      | 0         | 22.49                      | 22.54                      | 22.45                       |                       |                       |  |
| 15              | 64QAM      | 1       | 0         | 22.25                      | 22.67                      | 22.48                       |                       |                       |  |
| 15              | 64QAM      | 1       | 74        | 22.53                      | 22.12                      | 22.56                       | 23.7                  |                       |  |
| 15              | 64QAM      | 36      | 0         | 21.55                      | 21.58                      | 21.52                       |                       |                       |  |
| 15              | 64QAM      | 36      | 20        | 21.46                      | 21.41                      | 21.53                       |                       |                       |  |
| 15              | 64QAM      | 36      | 39        | 21.45                      | 21.06                      | 21.47                       | 22.7                  |                       |  |
| 15              | 64QAM      | 75      | 0         | 21.49                      | 21.46                      | 21.44                       |                       |                       |  |
| Channel         |            |         |           | 20000                      | 20175                      | 20350                       |                       | Tune-up<br>unit (dBm) |  |
| Frequency (MHz) |            |         |           | 1715                       | 1732.5                     | 1750                        |                       |                       |  |
| 10              | QPSK       | 1       | 0         | 24.39                      | 24.42                      | 24.45                       | 25.7                  |                       |  |
| 10              | QPSK       | 1       | 25        | 24.35                      | 24.42                      | 24.42                       |                       |                       |  |
| 10              | QPSK       | 1       | 49        | 24.36                      | 24.38                      | 24.40                       |                       |                       |  |
| 10              | QPSK       | 25      | 0         | 23.45                      | 23.47                      | 23.46                       | 24.7                  |                       |  |
| 10              | QPSK       | 25      | 12        | 23.50                      | 23.57                      | 23.48                       |                       |                       |  |
| 10              | QPSK       | 25      | 25        | 23.52                      | 23.57                      | 23.56                       |                       |                       |  |
| 10              | QPSK       | 50      | 0         | 23.53                      | 23.55                      | 23.50                       | 24.7                  |                       |  |
| 10              | 16QAM      | 1       | 0         | 23.73                      | 23.79                      | 23.81                       |                       |                       |  |
| 10              | 16QAM      | 1       | 25        | 23.73                      | 23.82                      | 23.81                       |                       |                       |  |
| 10              | 16QAM      | 1       | 49        | 23.75                      | 23.75                      | 23.81                       | 24.7                  |                       |  |
| 10              | 16QAM      | 25      | 0         | 22.47                      | 22.45                      | 22.46                       |                       |                       |  |
| 10              | 16QAM      | 25      | 12        | 22.51                      | 22.57                      | 22.52                       |                       |                       |  |
| 10              | 16QAM      | 25      | 25        | 22.49                      | 22.54                      | 22.57                       | 23.7                  |                       |  |
| 10              | 16QAM      | 50      | 0         | 22.50                      | 22.56                      | 22.48                       |                       |                       |  |
| 10              | 64QAM      | 1       | 0         | 22.08                      | 22.64                      | 22.69                       |                       |                       |  |
| 10              | 64QAM      | 1       | 25        | 22.65                      | 22.44                      | 22.71                       | 23.7                  |                       |  |
| 10              | 64QAM      | 1       | 49        | 22.67                      | 22.01                      | 22.71                       |                       |                       |  |
| 10              | 64QAM      | 25      | 0         | 21.44                      | 21.50                      | 21.52                       |                       |                       |  |
| 10              | 64QAM      | 25      | 12        | 21.51                      | 21.35                      | 21.52                       | 22.7                  |                       |  |
| 10              | 64QAM      | 25      | 25        | 21.51                      | 21.03                      | 21.58                       |                       |                       |  |
| 10              | 64QAM      | 50      | 0         | 21.53                      | 21.32                      | 21.54                       |                       |                       |  |
| Channel         |            |         |           | 19975                      | 20175                      | 20375                       | Tune-up<br>unit (dBm) |                       |  |
| Frequency (MHz) |            |         |           | 1712.5                     | 1732.5                     | 1752.5                      |                       |                       |  |
| 5               | QPSK       | 1       | 0         | 24.37                      | 24.38                      | 24.40                       | 25.7                  |                       |  |
| 5               | QPSK       | 1       | 12        | 24.46                      | 24.48                      | 24.48                       |                       |                       |  |
| 5               | QPSK       | 1       | 24        | 24.43                      | 24.48                      | 24.46                       |                       |                       |  |
| 5               | QPSK       | 12      | 0         | 23.48                      | 23.44                      | 23.53                       | 24.7                  |                       |  |
| 5               | QPSK       | 12      | 7         | 23.52                      | 23.54                      | 23.54                       |                       |                       |  |
| 5               | QPSK       | 12      | 13        | 23.51                      | 23.52                      | 23.50                       |                       |                       |  |
| 5               | QPSK       | 25      | 0         | 23.46                      | 23.53                      | 23.50                       | 24.7                  |                       |  |
| 5               | 16QAM      | 1       | 0         | 23.70                      | 23.76                      | 23.79                       |                       |                       |  |
| 5               | 16QAM      | 1       | 12        | 23.74                      | 23.72                      | 23.79                       |                       |                       |  |
| 5               | 16QAM      | 1       | 24        | 23.77                      | 23.78                      | 23.82                       | 23.7                  |                       |  |
| 5               | 16QAM      | 12      | 0         | 22.50                      | 22.46                      | 22.57                       |                       |                       |  |
| 5               | 16QAM      | 12      | 7         | 22.53                      | 22.57                      | 22.56                       |                       |                       |  |
| 5               | 16QAM      | 12      | 13        | 22.54                      | 22.57                      | 22.55                       | 23.7                  |                       |  |
| 5               | 16QAM      | 25      | 0         | 22.51                      | 22.53                      | 22.55                       |                       |                       |  |
| 5               | 64QAM      | 1       | 0         | 22.06                      | 22.62                      | 22.67                       |                       |                       |  |
| 5               | 64QAM      | 1       | 12        | 22.43                      | 22.33                      | 22.71                       | 23.7                  |                       |  |
| 5               | 64QAM      | 1       | 24        | 22.74                      | 22.09                      | 22.71                       |                       |                       |  |
| 5               | 64QAM      | 12      | 0         | 21.11                      | 21.51                      | 21.57                       |                       |                       |  |
| 5               | 64QAM      | 12      | 7         | 21.40                      | 21.31                      | 21.64                       | 22.7                  |                       |  |
| 5               | 64QAM      | 12      | 13        | 21.52                      | 21.06                      | 21.63                       |                       |                       |  |
| 5               | 64QAM      | 25      | 0         | 21.35                      | 21.27                      | 21.54                       |                       |                       |  |
| Channel         |            |         |           | 19965                      | 20175                      | 20385                       | Tune-up<br>unit (dBm) |                       |  |
| Frequency (MHz) |            |         |           | 1711.5                     | 1732.5                     | 1753.5                      |                       |                       |  |
| 3               | QPSK       | 1       | 0         | 24.38                      | 24.38                      | 24.41                       | 25.7                  |                       |  |
| 3               | QPSK       | 1       | 8         | 24.46                      | 24.48                      | 24.48                       |                       |                       |  |
| 3               | QPSK       | 1       | 14        | 24.40                      | 24.43                      | 24.43                       |                       |                       |  |
| 3               | QPSK       | 8       | 0         | 23.46                      | 23.44                      | 23.51                       | 24.7                  |                       |  |
| 3               | QPSK       | 8       | 4         | 23.52                      | 23.52                      | 23.52                       |                       |                       |  |
| 3               | QPSK       | 8       | 7         | 23.46                      | 23.51                      | 23.51                       |                       |                       |  |
| 3               | QPSK       | 15      | 0         | 23.46                      | 23.55                      | 23.50                       | 24.7                  |                       |  |
| 3               | 16QAM      | 1       | 0         | 23.70                      | 23.75                      | 23.76                       |                       |                       |  |
| 3               | 16QAM      | 1       | 8         | 23.79                      | 23.83                      | 23.81                       |                       |                       |  |
| 3               | 16QAM      | 1       | 14        | 23.74                      | 23.75                      | 23.78                       | 23.7                  |                       |  |
| 3               | 16QAM      | 8       | 0         | 22.52                      | 22.49                      | 22.56                       |                       |                       |  |
| 3               | 16QAM      | 8       | 4         | 22.59                      | 22.62                      | 22.62                       |                       |                       |  |
| 3               | 16QAM      | 8       | 7         | 22.58                      | 22.58                      | 22.57                       | 23.7                  |                       |  |
| 3               | 16QAM      | 15      | 0         | 22.50                      | 22.56                      | 22.57                       |                       |                       |  |
| 3               | 64QAM      | 1       | 0         | 22.01                      | 22.49                      | 22.69                       |                       |                       |  |
| 3               | 64QAM      | 1       | 8         | 22.30                      | 22.39                      | 22.75                       | 23.7                  |                       |  |
| 3               | 64QAM      | 1       | 14        | 22.40                      | 22.19                      | 22.71                       |                       |                       |  |
| 3               | 64QAM      | 8       | 0         | 20.99                      | 21.39                      | 21.60                       |                       |                       |  |
| 3               | 64QAM      | 8       | 4         | 21.16                      | 21.32                      | 21.61                       | 22.7                  |                       |  |
| 3               | 64QAM      | 8       | 7         | 21.27                      | 21.20                      | 21.58                       |                       |                       |  |
| 3               | 64QAM      | 15      | 0         | 21.14                      | 21.29                      | 21.56                       |                       |                       |  |
| Channel         |            |         |           | 19957                      | 20175                      | 20393                       | Tune-up<br>unit (dBm) |                       |  |
| Frequency (MHz) |            |         |           | 1710.7                     | 1732.5                     | 1754.3                      |                       |                       |  |
| 1.4             | QPSK       | 1       | 0         | 24.31                      | 24.33                      | 24.33                       | 25.7                  |                       |  |
| 1.4             | QPSK       | 1       | 3         | 24.37                      | 24.39                      | 24.42                       |                       |                       |  |
| 1.4             | QPSK       | 1       | 5         | 24.30                      | 24.35                      | 24.37                       |                       |                       |  |
| 1.4             | QPSK       | 3       | 0         | 24.31                      | 24.35                      | 24.41                       | 24.7                  |                       |  |
| 1.4             | QPSK       | 3       | 1         | 24.39                      | 24.41                      | 24.43                       |                       |                       |  |
| 1.4             | QPSK       | 3       | 3         | 24.35                      | 24.37                      | 24.38                       |                       |                       |  |
| 1.4             | QPSK       | 6       | 0         | 23.39                      | 23.42                      | 23.44                       | 24.7                  |                       |  |
| 1.4             | 16QAM      | 1       | 0         | 23.66                      | 23.65                      | 23.69                       |                       |                       |  |
| 1.4             | 16QAM      | 1       | 3         | 23.72                      | 23.72                      | 23.76                       |                       |                       |  |
| 1.4             | 16QAM      | 1       | 5         | 23.64                      | 23.65                      | 23.65                       | 24.7                  |                       |  |
| 1.4             | 16QAM      | 3       | 0         | 23.43                      | 23.44                      | 23.47                       |                       |                       |  |
| 1.4             | 16QAM      | 3       | 1         | 23.49                      | 23.49                      | 23.55                       |                       |                       |  |
| 1.4             | 16QAM      | 3       | 3         | 23.41                      | 23.45                      | 23.44                       | 23.7                  |                       |  |
| 1.4             | 16QAM      | 6       | 0         | 22.44                      | 22.50                      | 22.62                       |                       |                       |  |
| 1.4             | 16QAM      | 6       | 1         | 22.51                      | 22.51                      | 22.53                       |                       |                       |  |
| 1.4             | 16QAM      | 1       | 3         | 22.08                      | 22.32                      | 22.60                       | 23.7                  |                       |  |
| 1.4             | 64QAM      | 1       | 5         | 22.09                      | 22.21                      | 22.63                       |                       |                       |  |
| 1.4             | 64QAM      | 3       | 1         | 22.17                      | 22.46                      | 22.64                       |                       |                       |  |
| 1.4             | 64QAM      | 3       | 3         | 22.11                      | 22.27                      | 22.61                       | 23.7                  |                       |  |
| 1.4             | 64QAM      | 3       | 5         | 22.13                      | 22.27                      | 22.63                       |                       |                       |  |
| 1.4             | 64QAM      | 3       | 7         | 22.19                      | 22.27                      | 22.62                       |                       |                       |  |





| Band 5          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20450           | 20555              | 20650            |                     |
| Frequency (MHz) |            |         |           | 829             | 836.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.78           | 24.62              | 24.62            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58           | 24.62              | 24.62            |                     |
| 10              | QPSK       | 1       | 49        | 24.58           | 24.62              | 24.26            |                     |
| 10              | QPSK       | 25      | 0         | 23.68           | 23.73              | 23.72            |                     |
| 10              | QPSK       | 25      | 12        | 23.75           | 23.74              | 23.72            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.78              | 23.73            |                     |
| 10              | QPSK       | 50      | 0         | 23.75           | 23.70              | 23.73            |                     |
| 10              | 16QAM      | 1       | 0         | 24.01           | 24.01              | 23.99            |                     |
| 10              | 16QAM      | 1       | 25        | 23.98           | 24.05              | 24.00            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 24.00           | 24.04              | 23.60            |                     |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.74              | 22.71            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.72              | 22.75            |                     |
| 10              | 16QAM      | 25      | 25        | 22.72           | 22.78              | 22.79            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.77           | 22.74              | 22.75            |                     |
| 10              | 64QAM      | 1       | 0         | 22.88           | 22.88              | 22.87            |                     |
| 10              | 64QAM      | 1       | 25        | 22.92           | 22.85              | 22.85            |                     |
| 10              | 64QAM      | 1       | 49        | 22.89           | 22.48              | 21.77            | 23.7                |
| 10              | 64QAM      | 25      | 0         | 21.67           | 21.78              | 21.76            |                     |
| 10              | 64QAM      | 25      | 12        | 21.80           | 21.77              | 21.68            |                     |
| 10              | 64QAM      | 25      | 25        | 21.76           | 21.64              | 21.09            |                     |
| 10              | 64QAM      | 50      | 0         | 21.79           | 21.74              | 21.27            | 22.7                |
| Channel         |            |         |           | 20425           | 20525              | 20625            |                     |
| Frequency (MHz) |            |         |           | 826.5           | 836.5              | 846.5            | Tune-up limit (dBm) |
| 5               | QPSK       | 1       | 0         | 24.75           | 24.69              | 24.67            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.65           | 24.72              | 24.40            |                     |
| 5               | QPSK       | 1       | 24        | 24.61           | 24.65              | 24.19            |                     |
| 5               | QPSK       | 12      | 0         | 23.77           | 23.72              | 23.75            |                     |
| 5               | QPSK       | 12      | 7         | 23.73           | 23.78              | 23.42            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.70           | 23.74              | 23.13            |                     |
| 5               | QPSK       | 25      | 0         | 23.74           | 23.70              | 23.60            |                     |
| 5               | 16QAM      | 1       | 0         | 24.08           | 24.03              | 24.01            |                     |
| 5               | 16QAM      | 1       | 12        | 23.99           | 24.03              | 23.67            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.96           | 23.99              | 23.34            |                     |
| 5               | 16QAM      | 12      | 0         | 22.81           | 22.77              | 22.75            |                     |
| 5               | 16QAM      | 12      | 7         | 22.78           | 22.81              | 22.61            |                     |
| 5               | 16QAM      | 12      | 13        | 22.74           | 22.75              | 22.31            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75           | 22.72              | 22.69            |                     |
| 5               | 64QAM      | 1       | 0         | 22.75           | 22.84              | 22.82            |                     |
| 5               | 64QAM      | 1       | 12        | 22.90           | 22.85              | 21.90            |                     |
| 5               | 64QAM      | 1       | 24        | 22.89           | 22.62              | 21.71            | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.73           | 21.80              | 21.31            |                     |
| 5               | 64QAM      | 12      | 7         | 21.80           | 21.79              | 20.75            |                     |
| 5               | 64QAM      | 12      | 13        | 21.75           | 21.66              | 20.71            |                     |
| 5               | 64QAM      | 25      | 0         | 21.73           | 21.75              | 20.81            | 22.7                |
| Channel         |            |         |           | 20415           | 20525              | 20635            |                     |
| Frequency (MHz) |            |         |           | 825.5           | 836.5              | 847.5            | Tune-up limit (dBm) |
| 3               | QPSK       | 1       | 0         | 24.70           | 24.66              | 24.52            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.67           | 24.70              | 24.11            |                     |
| 3               | QPSK       | 1       | 14        | 24.54           | 24.62              | 24.05            |                     |
| 3               | QPSK       | 8       | 0         | 23.76           | 23.73              | 23.36            |                     |
| 3               | QPSK       | 8       | 4         | 23.68           | 23.74              | 23.21            | 24.7                |
| 3               | QPSK       | 8       | 7         | 23.67           | 23.72              | 23.15            |                     |
| 3               | QPSK       | 15      | 0         | 23.72           | 23.67              | 23.28            |                     |
| 3               | 16QAM      | 1       | 0         | 24.01           | 23.96              | 23.87            |                     |
| 3               | 16QAM      | 1       | 8         | 23.99           | 24.02              | 23.50            | 24.7                |
| 3               | 16QAM      | 1       | 14        | 23.89           | 23.92              | 23.42            |                     |
| 3               | 16QAM      | 8       | 0         | 22.83           | 22.76              | 22.54            |                     |
| 3               | 16QAM      | 8       | 4         | 22.79           | 22.80              | 22.36            |                     |
| 3               | 16QAM      | 8       | 7         | 22.75           | 22.78              | 22.29            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.77           | 22.69              | 22.43            |                     |
| 3               | 64QAM      | 1       | 0         | 22.65           | 22.90              | 21.96            |                     |
| 3               | 64QAM      | 1       | 8         | 22.66           | 22.97              | 21.74            |                     |
| 3               | 64QAM      | 1       | 14        | 22.64           | 22.62              | 21.71            | 22.7                |
| 3               | 64QAM      | 8       | 0         | 21.61           | 21.75              | 20.73            |                     |
| 3               | 64QAM      | 8       | 4         | 21.69           | 21.82              | 20.72            |                     |
| 3               | 64QAM      | 8       | 7         | 21.70           | 21.78              | 20.71            |                     |
| 3               | 64QAM      | 15      | 0         | 21.74           | 21.69              | 20.78            | 22.7                |
| Channel         |            |         |           | 20407           | 20525              | 20643            |                     |
| Frequency (MHz) |            |         |           | 824.7           | 836.5              | 848.3            | Tune-up limit (dBm) |
| 1.4             | QPSK       | 1       | 0         | 24.58           | 24.53              | 23.98            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.59           | 24.61              | 24.06            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.51           | 24.53              | 24.06            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.62           | 24.57              | 23.99            |                     |
| 1.4             | QPSK       | 3       | 1         | 24.62           | 24.57              | 24.05            | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.60           | 24.58              | 24.12            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.64           | 23.64              | 23.08            |                     |
| 1.4             | 16QAM      | 1       | 0         | 23.88           | 23.96              | 23.26            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.93           | 23.95              | 23.39            | 24.7                |
| 1.4             | 16QAM      | 1       | 5         | 23.83           | 23.89              | 23.43            |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.67           | 23.62              | 23.14            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.71           | 23.66              | 23.17            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.64           | 23.67              | 23.21            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71           | 22.74              | 22.28            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.64           | 22.80              | 21.77            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.66           | 22.88              | 21.78            |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.62           | 22.79              | 21.73            | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.61           | 22.78              | 21.72            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.66           | 22.79              | 21.77            |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.64           | 22.78              | 21.77            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.50           | 21.69              | 20.74            | 22.7                |



| Band 7          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 2           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850           | 21100              | 21350            |                     |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |
| 20              | QPSK       | 1       | 0         | 24.69           | 24.76              | 24.80            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.74           | 24.81              | 24.78            |                     |
| 20              | QPSK       | 1       | 99        | 24.84           | 24.83              | 24.83            |                     |
| 20              | QPSK       | 50      | 0         | 23.80           | 23.87              | 23.89            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.92           | 23.91              | 23.91            |                     |
| 20              | QPSK       | 50      | 50        | 23.94           | 23.92              | 23.92            |                     |
| 20              | QPSK       | 100     | 0         | 23.91           | 23.89              | 23.91            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.01           | 24.09              | 24.15            |                     |
| 20              | 16QAM      | 1       | 49        | 24.12           | 24.17              | 24.15            |                     |
| 20              | 16QAM      | 1       | 99        | 24.15           | 24.21              | 24.14            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.81           | 22.87              | 22.91            |                     |
| 20              | 16QAM      | 50      | 24        | 22.93           | 22.92              | 22.94            |                     |
| 20              | 16QAM      | 50      | 50        | 22.96           | 23.02              | 22.98            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.92           | 22.90              | 22.92            |                     |
| 20              | 64QAM      | 1       | 0         | 22.89           | 22.95              | 22.99            |                     |
| 20              | 64QAM      | 1       | 49        | 22.98           | 23.07              | 22.88            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 23.07           | 23.13              | 22.92            |                     |
| 20              | 64QAM      | 50      | 0         | 21.84           | 21.92              | 21.92            |                     |
| 20              | 64QAM      | 50      | 24        | 21.95           | 21.95              | 21.71            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.98           | 22.04              | 21.58            |                     |
| 20              | 64QAM      | 100     | 0         | 21.94           | 21.92              | 21.71            |                     |
| Channel         |            |         |           | 20825           | 21100              | 21375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5          | 2535               | 2562.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.67           | 24.77              | 24.82            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.72           | 24.81              | 24.81            |                     |
| 15              | QPSK       | 1       | 74        | 24.80           | 24.80              | 24.83            |                     |
| 15              | QPSK       | 36      | 0         | 23.77           | 23.87              | 23.90            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.93           | 23.91              | 23.91            |                     |
| 15              | QPSK       | 36      | 39        | 23.94           | 24.00              | 23.95            |                     |
| 15              | QPSK       | 75      | 0         | 23.88           | 23.91              | 23.88            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.00           | 24.11              | 24.14            |                     |
| 15              | 16QAM      | 1       | 37        | 24.05           | 24.14              | 24.15            |                     |
| 15              | 16QAM      | 1       | 74        | 24.14           | 24.24              | 24.13            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.80           | 22.89              | 22.90            |                     |
| 15              | 16QAM      | 36      | 20        | 22.92           | 22.92              | 22.90            |                     |
| 15              | 16QAM      | 36      | 39        | 22.95           | 23.02              | 22.95            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.91           | 22.92              | 22.89            |                     |
| 15              | 64QAM      | 1       | 0         | 22.89           | 23.01              | 23.01            |                     |
| 15              | 64QAM      | 1       | 37        | 22.99           | 23.08              | 22.38            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 23.01           | 23.14              | 22.68            |                     |
| 15              | 64QAM      | 36      | 0         | 21.85           | 21.94              | 21.72            |                     |
| 15              | 64QAM      | 36      | 20        | 21.93           | 21.93              | 21.52            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.97           | 22.06              | 21.58            |                     |
| 15              | 64QAM      | 75      | 0         | 21.91           | 21.95              | 21.57            |                     |
| Channel         |            |         |           | 20800           | 21100              | 21400            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505            | 2535               | 2565             |                     |
| 10              | QPSK       | 1       | 0         | 24.68           | 24.75              | 24.75            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.64           | 24.74              | 24.73            |                     |
| 10              | QPSK       | 1       | 49        | 24.71           | 24.83              | 24.78            |                     |
| 10              | QPSK       | 25      | 0         | 23.84           | 23.87              | 23.82            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.88           | 23.89              | 23.84            |                     |
| 10              | QPSK       | 25      | 25        | 23.85           | 23.96              | 23.92            |                     |
| 10              | QPSK       | 50      | 0         | 23.88           | 23.91              | 23.83            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.04           | 24.13              | 24.11            |                     |
| 10              | 16QAM      | 1       | 25        | 24.04           | 24.17              | 24.14            |                     |
| 10              | 16QAM      | 1       | 49        | 24.13           | 24.22              | 24.15            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.85           | 22.86              | 22.82            |                     |
| 10              | 16QAM      | 25      | 12        | 22.96           | 22.91              | 22.87            |                     |
| 10              | 16QAM      | 25      | 25        | 22.89           | 22.97              | 22.92            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.87           | 22.89              | 22.84            |                     |
| 10              | 64QAM      | 1       | 0         | 22.97           | 22.99              | 22.66            |                     |
| 10              | 64QAM      | 1       | 25        | 23.00           | 23.09              | 22.74            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 23.01           | 23.14              | 22.89            |                     |
| 10              | 64QAM      | 25      | 0         | 21.88           | 21.89              | 21.50            |                     |
| 10              | 64QAM      | 25      | 12        | 21.92           | 21.93              | 21.62            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.92           | 22.00              | 21.66            |                     |
| 10              | 64QAM      | 50      | 0         | 21.92           | 21.94              | 21.50            |                     |
| Channel         |            |         |           | 20775           | 21100              | 21425            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5          | 2535               | 2567.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.69           | 24.76              | 24.74            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.75           | 24.80              | 24.75            |                     |
| 5               | QPSK       | 1       | 24        | 24.74           | 24.80              | 24.77            |                     |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.88              | 23.88            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.87           | 23.86              | 23.90            |                     |
| 5               | QPSK       | 12      | 13        | 23.84           | 23.96              | 23.88            |                     |
| 5               | QPSK       | 25      | 0         | 23.84           | 23.88              | 23.85            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.05           | 24.10              | 24.09            |                     |
| 5               | 16QAM      | 1       | 12        | 24.08           | 24.16              | 24.07            |                     |
| 5               | 16QAM      | 1       | 24        | 24.07           | 24.17              | 24.10            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.88           | 22.91              | 22.93            |                     |
| 5               | 16QAM      | 12      | 7         | 22.88           | 22.93              | 22.89            |                     |
| 5               | 16QAM      | 12      | 13        | 22.90           | 22.97              | 22.89            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.88           | 22.89              | 22.87            |                     |
| 5               | 64QAM      | 1       | 0         | 23.00           | 23.00              | 22.69            |                     |
| 5               | 64QAM      | 1       | 12        | 22.99           | 23.08              | 22.72            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 23.01           | 23.10              | 22.82            |                     |
| 5               | 64QAM      | 12      | 0         | 21.91           | 21.94              | 21.57            |                     |
| 5               | 64QAM      | 12      | 7         | 21.87           | 21.95              | 21.72            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.81           | 22.00              | 21.75            |                     |
| 5               | 64QAM      | 25      | 0         | 21.87           | 21.90              | 21.63            |                     |



| Band 12         |            |         |           |                 |                    |                  |                     |  |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|--|--|
| Ant 0           |            |         |           |                 |                    |                  |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 23060           | 23095              | 23150            |                     |  |  |
| Frequency (MHz) |            |         |           | 704             | 707.5              | 711              |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.64           | 24.61              | 24.63            | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.63           | 24.68              | 24.65            |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.76           | 24.71              | 24.70            |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.74           | 23.78              | 23.77            |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.67           | 23.80              | 23.76            | 24.7                |  |  |
| 10              | QPSK       | 25      | 25        | 23.88           | 23.85              | 23.83            |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.83           | 23.80              | 23.79            |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 24.03           | 23.97              | 23.99            |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.06           | 24.05              | 24.01            | 24.7                |  |  |
| 10              | 16QAM      | 1       | 49        | 24.12           | 24.08              | 24.07            |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.76           | 22.79              | 22.77            |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.62           | 22.80              | 22.78            |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.81           | 22.85              | 22.79            | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.83           | 22.78              | 22.76            |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.91           | 22.84              | 22.87            |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.76           | 22.99              | 22.73            |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 23.06           | 22.96              | 22.95            | 23.7                |  |  |
| 10              | 64QAM      | 25      | 0         | 21.78           | 21.80              | 21.79            |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.88           | 21.83              | 21.81            |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.82           | 21.90              | 21.84            |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.83           | 21.81              | 21.80            | 22.7                |  |  |
| Channel         |            |         |           | 23035           | 23095              | 23155            |                     |  |  |
| Frequency (MHz) |            |         |           | 701.5           | 707.5              | 713.5            |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.70           | 24.72              | 24.67            | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.72           | 24.73              | 24.71            |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.69           | 24.71              | 24.72            |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.79              | 23.78            |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.79           | 23.75              | 23.81            | 24.7                |  |  |
| 5               | QPSK       | 12      | 13        | 23.75           | 23.82              | 23.77            |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.79           | 23.76              | 23.75            |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 24.02           | 24.04              | 23.98            |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 24.03           | 24.01              | 24.02            | 24.7                |  |  |
| 5               | 16QAM      | 1       | 24        | 24.02           | 24.07              | 24.03            |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.85           | 22.83              | 22.80            |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.81           | 22.78              | 22.85            |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.83           | 22.82              | 22.80            | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.81           | 22.82              | 22.75            |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.62           | 22.73              | 22.91            |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.83           | 22.94              | 22.94            |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 22.80           | 22.98              | 22.93            | 23.7                |  |  |
| 5               | 64QAM      | 12      | 0         | 21.81           | 21.89              | 21.87            |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.88           | 21.85              | 21.88            |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.82           | 21.87              | 21.84            |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.83           | 21.79              | 21.79            | 22.7                |  |  |
| Channel         |            |         |           | 23025           | 23095              | 23165            |                     |  |  |
| Frequency (MHz) |            |         |           | 700.5           | 707.5              | 714.5            |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.75           | 24.69              | 24.72            | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.73           | 24.74              | 24.73            |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.65           | 24.71              | 24.67            |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.79           | 23.78              | 23.73            |                     |  |  |
| 3               | QPSK       | 8       | 4         | 23.78           | 23.74              | 23.77            | 24.7                |  |  |
| 3               | QPSK       | 8       | 7         | 23.73           | 23.76              | 23.75            |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.77           | 23.75              | 23.73            |                     |  |  |
| 3               | 16QAM      | 1       | 0         | 24.08           | 24.01              | 24.02            |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 24.06           | 24.08              | 24.08            | 24.7                |  |  |
| 3               | 16QAM      | 1       | 14        | 24.00           | 24.05              | 23.98            |                     |  |  |
| 3               | 16QAM      | 8       | 0         | 22.88           | 22.83              | 22.82            |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.90           | 22.83              | 22.87            |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.84           | 22.84              | 22.83            | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.80           | 22.80              | 22.75            |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.67           | 22.90              | 22.95            |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.91           | 23.01              | 22.98            |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 22.92           | 22.95              | 22.88            | 23.7                |  |  |
| 3               | 64QAM      | 8       | 0         | 21.82           | 21.81              | 21.81            |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.87           | 21.84              | 21.87            |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 21.82           | 21.85              | 21.81            |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.65           | 21.78              | 21.77            | 22.7                |  |  |
| Channel         |            |         |           | 23017           | 23095              | 23173            |                     |  |  |
| Frequency (MHz) |            |         |           | 699.7           | 707.5              | 715.3            |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.64           | 24.59              | 24.59            | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.68           | 24.67              | 24.64            |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.60           | 24.58              | 24.55            |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.67           | 24.60              | 24.62            |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.70           | 24.64              | 24.68            | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.64           | 24.67              | 24.61            |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.71           | 23.74              | 23.67            |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.99           | 23.93              | 23.96            |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 24.02           | 24.02              | 23.98            | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.92           | 23.94              | 23.91            |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.75           | 23.69              | 23.69            |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.81           | 23.75              | 23.75            |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.70           | 23.73              | 23.65            | 23.7                |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.78           | 22.80              | 22.76            |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.73           | 22.89              | 22.85            |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.90           | 22.97              | 22.89            |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.82           | 22.85              | 22.81            | 23.7                |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.68           | 22.81              | 22.82            |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.78           | 22.85              | 22.88            |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.63           | 22.83              | 22.79            |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.72           | 21.75              | 21.71            | 22.7                |  |  |

| Band 13         |            |         |           |               |                  |                |                     |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|
| Ant 0           |            |         |           |               |                  |                |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. | Power Middle Ch. | Power High Ch. | Tune-up limit (dbm) |
| Channel         |            |         |           | 2320          |                  |                |                     |
| Frequency (MHz) |            |         |           | 752           |                  |                |                     |
| 10              | QPSK       | 1       | 0         |               | 24.23            |                | 25.2                |
| 10              | QPSK       | 1       | 25        |               | 24.22            |                |                     |
| 10              | QPSK       | 1       | 49        |               | 24.35            |                |                     |
| 10              | QPSK       | 25      | 0         |               | 23.30            |                | 24.2                |
| 10              | QPSK       | 25      | 12        |               | 23.33            |                |                     |
| 10              | QPSK       | 25      | 25        |               | 23.34            |                |                     |
| 10              | QPSK       | 50      | 0         |               | 23.35            |                | 24.2                |
| 10              | 16QAM      | 1       | 0         |               | 23.56            |                |                     |
| 10              | 16QAM      | 1       | 25        |               | 23.57            |                |                     |
| 10              | 16QAM      | 1       | 49        |               | 23.54            |                | 23.2                |
| 10              | 16QAM      | 25      | 0         |               | 22.31            |                |                     |
| 10              | 16QAM      | 25      | 12        |               | 22.34            |                |                     |
| 10              | 16QAM      | 25      | 25        |               | 22.38            |                | 23.2                |
| 10              | 16QAM      | 50      | 0         |               | 22.35            |                |                     |
| 10              | 64QAM      | 1       | 0         |               | 22.30            |                |                     |
| 10              | 64QAM      | 1       | 25        |               | 22.52            |                | 22.2                |
| 10              | 64QAM      | 1       | 49        |               | 22.46            |                |                     |
| 10              | 64QAM      | 25      | 0         |               | 21.36            |                |                     |
| 10              | 64QAM      | 25      | 12        |               | 21.38            |                | 22.2                |
| 10              | 64QAM      | 25      | 25        |               | 21.37            |                |                     |
| 10              | 64QAM      | 50      | 0         |               | 21.39            |                |                     |
| Channel         |            |         |           | 23205         | 23230            | 23255          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 779.5         | 782              | 784.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.23         | 24.20            | 24.18          | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.26         | 24.27            | 24.23          |                     |
| 5               | QPSK       | 1       | 24        | 24.30         | 24.23            | 24.34          |                     |
| 5               | QPSK       | 12      | 0         | 23.38         | 23.33            | 23.29          | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.41         | 23.32            | 23.31          |                     |
| 5               | QPSK       | 12      | 13        | 23.38         | 23.35            | 23.29          |                     |
| 5               | QPSK       | 25      | 0         | 23.37         | 23.33            | 23.32          | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.51         | 23.46            | 23.52          |                     |
| 5               | 16QAM      | 1       | 12        | 23.50         | 23.47            | 23.47          |                     |
| 5               | 16QAM      | 1       | 24        | 23.59         | 23.51            | 23.49          | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.43         | 22.35            | 22.36          |                     |
| 5               | 16QAM      | 12      | 7         | 22.42         | 22.33            | 22.35          |                     |
| 5               | 16QAM      | 12      | 13        | 22.40         | 22.37            | 22.37          | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.43         | 22.34            | 22.33          |                     |
| 5               | 64QAM      | 1       | 0         | 22.14         | 22.47            | 22.39          |                     |
| 5               | 64QAM      | 1       | 12        | 22.50         | 22.44            | 22.45          | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.47         | 22.47            | 22.39          |                     |
| 5               | 64QAM      | 12      | 0         | 21.47         | 21.41            | 21.37          |                     |
| 5               | 64QAM      | 12      | 7         | 21.47         | 21.37            | 21.42          | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.44         | 21.41            | 21.36          |                     |
| 5               | 64QAM      | 25      | 0         | 21.41         | 21.37            | 21.34          |                     |

| Band 14         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dbm) |
| Channel         |            |         |           | 23330          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 793            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.66             |                 | 25.7                |
| 10              | QPSK       | 1       | 25        |                | 24.65             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.67             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.71             |                 |                     |
| 10              | QPSK       | 25      | 12        |                | 23.70             |                 | 24.7                |
| 10              | QPSK       | 25      | 25        |                | 23.73             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.68             |                 |                     |
| 10              | 16QAM      | 1       | 0         |                | 24.08             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 24.08             |                 | 24.7                |
| 10              | 16QAM      | 1       | 49        |                | 23.86             |                 |                     |
| 10              | 16QAM      | 25      | 0         |                | 22.66             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.70             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.71             |                 | 23.7                |
| 10              | 16QAM      | 50      | 0         |                | 22.70             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.92             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.66             |                 |                     |
| 10              | 64QAM      | 1       | 49        |                | 22.90             |                 | 23.7                |
| 10              | 64QAM      | 25      | 0         |                | 21.71             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.37             |                 |                     |
| 10              | 64QAM      | 25      | 25        |                | 21.38             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.44             |                 | 22.7                |
| Channel         |            |         |           | 23305          | 23330             | 23355           |                     |
| Frequency (MHz) |            |         |           | 790.5          | 793               | 795.5           | Tune-up limit (dbm) |
| 5               | QPSK       | 1       | 0         | 24.62          | 24.61             | 24.59           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.69          | 24.74             | 24.66           |                     |
| 5               | QPSK       | 1       | 24        | 24.64          | 24.62             | 24.54           |                     |
| 5               | QPSK       | 12      | 0         | 23.71          | 23.68             | 23.65           |                     |
| 5               | QPSK       | 12      | 7         | 23.76          | 23.70             | 23.65           | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.70          | 23.69             | 23.63           |                     |
| 5               | QPSK       | 25      | 0         | 23.74          | 23.67             | 23.59           |                     |
| 5               | 16QAM      | 1       | 0         | 23.83          | 23.96             | 23.90           |                     |
| 5               | 16QAM      | 1       | 12        | 24.00          | 23.98             | 23.93           | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.99          | 23.90             | 23.89           |                     |
| 5               | 16QAM      | 12      | 0         | 22.79          | 22.71             | 22.65           |                     |
| 5               | 16QAM      | 12      | 7         | 22.77          | 22.71             | 22.68           |                     |
| 5               | 16QAM      | 12      | 13        | 22.72          | 22.74             | 22.70           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75          | 22.71             | 22.62           |                     |
| 5               | 64QAM      | 1       | 0         | 22.89          | 22.60             | 22.19           |                     |
| 5               | 64QAM      | 1       | 12        | 22.82          | 22.09             | 22.17           |                     |
| 5               | 64QAM      | 1       | 24        | 22.33          | 21.97             | 22.68           | 23.7                |
| 5               | 64QAM      | 12      | 0         | 21.82          | 21.27             | 20.93           |                     |
| 5               | 64QAM      | 12      | 7         | 21.76          | 21.05             | 21.11           |                     |
| 5               | 64QAM      | 12      | 13        | 21.44          | 20.88             | 21.53           |                     |
| 5               | 64QAM      | 25      | 0         | 21.56          | 21.63             | 21.17           | 22.7                |

| Band 17         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |
| 10              | QPSK       | 1       | 0         | 24.66           | 24.65              | 24.61            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.69           | 24.70              | 24.71            |                     |
| 10              | QPSK       | 1       | 49        | 24.75           | 24.80              | 24.72            |                     |
| 10              | QPSK       | 25      | 0         | 23.73           | 23.76              | 23.76            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.68           | 23.82              | 23.79            |                     |
| 10              | QPSK       | 25      | 25        | 23.98           | 23.86              | 23.88            |                     |
| 10              | QPSK       | 50      | 0         | 23.79           | 23.78              | 23.79            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.00           | 23.99              | 24.01            |                     |
| 10              | 16QAM      | 1       | 25        | 24.14           | 24.11              | 24.08            |                     |
| 10              | 16QAM      | 1       | 49        | 24.12           | 24.10              | 24.09            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.74           | 22.74              | 22.73            |                     |
| 10              | 16QAM      | 25      | 12        | 22.90           | 22.79              | 22.81            |                     |
| 10              | 16QAM      | 25      | 25        | 22.89           | 22.90              | 22.82            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.80           | 22.80              | 22.77            |                     |
| 10              | 64QAM      | 1       | 0         | 22.65           | 22.75              | 22.88            |                     |
| 10              | 64QAM      | 1       | 25        | 22.71           | 22.71              | 22.65            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.97           | 22.93              | 22.76            |                     |
| 10              | 64QAM      | 25      | 0         | 21.49           | 21.50              | 21.47            |                     |
| 10              | 64QAM      | 25      | 12        | 21.61           | 21.54              | 21.52            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.65           | 21.78              | 21.84            |                     |
| 10              | 64QAM      | 50      | 0         | 21.62           | 21.68              | 21.62            |                     |
| Channel         |            |         |           | 23765           | 23790              | 23825            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 706.5           | 710                | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.66           | 24.66              | 24.66            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.74           | 24.79              | 24.75            |                     |
| 5               | QPSK       | 1       | 24        | 24.79           | 24.79              | 24.78            |                     |
| 5               | QPSK       | 12      | 0         | 23.76           | 23.76              | 23.79            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.85           | 23.81              | 23.82            |                     |
| 5               | QPSK       | 12      | 13        | 23.83           | 23.86              | 23.83            |                     |
| 5               | QPSK       | 25      | 0         | 23.81           | 23.79              | 23.82            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.99           | 23.98              | 23.99            |                     |
| 5               | 16QAM      | 1       | 12        | 24.02           | 24.06              | 24.04            |                     |
| 5               | 16QAM      | 1       | 24        | 24.13           | 24.14              | 24.10            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.79           | 22.83              | 22.81            |                     |
| 5               | 16QAM      | 12      | 7         | 22.89           | 22.86              | 22.89            |                     |
| 5               | 16QAM      | 12      | 13        | 22.84           | 22.88              | 22.84            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.65           | 22.85              | 22.87            |                     |
| 5               | 64QAM      | 1       | 0         | 22.40           | 22.44              | 22.75            |                     |
| 5               | 64QAM      | 1       | 12        | 22.76           | 22.60              | 22.94            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.59           | 22.57              | 22.67            |                     |
| 5               | 64QAM      | 12      | 0         | 21.61           | 21.45              | 21.75            |                     |
| 5               | 64QAM      | 12      | 7         | 21.73           | 21.52              | 21.89            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.65           | 21.58              | 21.88            |                     |
| 5               | 64QAM      | 25      | 0         | 21.55           | 21.51              | 21.79            |                     |



| Band 25         |            |         |           |                         |                            |                          |                     |
|-----------------|------------|---------|-----------|-------------------------|----------------------------|--------------------------|---------------------|
| Ant 2           |            |         |           |                         |                            |                          |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Channel | Power Middle Ch. / Channel | Power High Ch. / Channel | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 26140                   | 26340                      | 26590                    |                     |
| Frequency (MHz) |            |         |           | 1860                    | 1880                       | 1905                     |                     |
| 20              | QPSK       | 1       | 0         | 24.65                   | 24.76                      | 24.91                    | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.64                   | 24.72                      | 24.82                    |                     |
| 20              | QPSK       | 1       | 99        | 24.61                   | 24.75                      | 24.23                    |                     |
| 20              | QPSK       | 50      | 0         | 23.71                   | 23.86                      | 23.94                    | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.60                   | 23.95                      | 24.01                    |                     |
| 20              | QPSK       | 50      | 50        | 23.73                   | 23.92                      | 24.00                    |                     |
| 20              | QPSK       | 100     | 0         | 23.81                   | 23.94                      | 23.97                    | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.95                   | 24.08                      | 24.19                    |                     |
| 20              | 16QAM      | 1       | 49        | 23.98                   | 24.09                      | 24.15                    |                     |
| 20              | 16QAM      | 1       | 99        | 23.89                   | 24.08                      | 23.60                    | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.72                   | 22.85                      | 22.96                    |                     |
| 20              | 16QAM      | 50      | 24        | 22.80                   | 22.95                      | 22.98                    |                     |
| 20              | 16QAM      | 50      | 50        | 22.76                   | 22.93                      | 23.05                    | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.78                   | 22.93                      | 22.94                    |                     |
| 20              | 64QAM      | 1       | 0         | 22.86                   | 22.94                      | 22.43                    |                     |
| 20              | 64QAM      | 1       | 49        | 22.70                   | 22.91                      | 22.54                    | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.42                   | 22.97                      | 21.74                    |                     |
| 20              | 64QAM      | 50      | 0         | 21.75                   | 21.89                      | 21.33                    |                     |
| 20              | 64QAM      | 50      | 24        | 21.66                   | 22.01                      | 21.58                    | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.43                   | 21.95                      | 21.32                    |                     |
| 20              | 64QAM      | 100     | 0         | 21.70                   | 21.95                      | 21.16                    |                     |
| Channel         |            |         |           | 26115                   | 26340                      | 26615                    | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5                  | 1880                       | 1907.5                   |                     |
| 15              | QPSK       | 1       | 0         | 24.65                   | 24.77                      | 24.86                    | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.65                   | 24.76                      | 24.86                    |                     |
| 15              | QPSK       | 1       | 74        | 24.63                   | 24.77                      | 24.32                    |                     |
| 15              | QPSK       | 36      | 0         | 23.72                   | 23.86                      | 23.96                    | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.79                   | 23.95                      | 24.07                    |                     |
| 15              | QPSK       | 36      | 39        | 23.74                   | 23.89                      | 23.93                    |                     |
| 15              | QPSK       | 75      | 0         | 23.77                   | 23.94                      | 23.96                    | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.93                   | 24.07                      | 24.15                    |                     |
| 15              | 16QAM      | 1       | 37        | 23.97                   | 24.09                      | 24.18                    |                     |
| 15              | 16QAM      | 1       | 74        | 23.92                   | 24.10                      | 23.69                    | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.73                   | 22.87                      | 22.98                    |                     |
| 15              | 16QAM      | 36      | 20        | 22.78                   | 22.96                      | 23.06                    |                     |
| 15              | 16QAM      | 36      | 39        | 22.72                   | 22.90                      | 23.02                    | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.77                   | 22.94                      | 22.96                    |                     |
| 15              | 64QAM      | 1       | 0         | 22.63                   | 22.82                      | 22.34                    |                     |
| 15              | 64QAM      | 1       | 37        | 22.88                   | 22.97                      | 22.77                    | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.42                   | 22.97                      | 21.81                    |                     |
| 15              | 64QAM      | 36      | 0         | 21.77                   | 21.92                      | 21.56                    |                     |
| 15              | 64QAM      | 36      | 20        | 21.82                   | 21.98                      | 21.69                    | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.58                   | 21.93                      | 21.28                    |                     |
| 15              | 64QAM      | 75      | 0         | 21.79                   | 21.95                      | 21.27                    |                     |
| Channel         |            |         |           | 26090                   | 26340                      | 26640                    | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1865                    | 1880                       | 1910                     |                     |
| 10              | QPSK       | 1       | 0         | 24.65                   | 24.70                      | 24.89                    | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.55                   | 24.70                      | 24.90                    |                     |
| 10              | QPSK       | 1       | 49        | 24.60                   | 24.75                      | 24.20                    |                     |
| 10              | QPSK       | 25      | 0         | 23.74                   | 23.81                      | 23.94                    | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.79                   | 23.93                      | 24.00                    |                     |
| 10              | QPSK       | 25      | 25        | 23.79                   | 23.93                      | 23.85                    |                     |
| 10              | QPSK       | 50      | 0         | 23.78                   | 23.93                      | 23.95                    | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.98                   | 24.12                      | 24.22                    |                     |
| 10              | 16QAM      | 1       | 25        | 23.98                   | 24.13                      | 24.27                    |                     |
| 10              | 16QAM      | 1       | 49        | 23.98                   | 24.13                      | 23.58                    | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.76                   | 22.85                      | 22.96                    |                     |
| 10              | 16QAM      | 25      | 12        | 22.80                   | 22.95                      | 22.97                    |                     |
| 10              | 16QAM      | 25      | 25        | 22.76                   | 22.90                      | 22.84                    | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.78                   | 22.91                      | 22.97                    |                     |
| 10              | 64QAM      | 1       | 0         | 22.91                   | 22.95                      | 22.66                    |                     |
| 10              | 64QAM      | 1       | 25        | 22.92                   | 23.05                      | 22.53                    | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.61                   | 23.07                      | 21.74                    |                     |
| 10              | 64QAM      | 25      | 0         | 21.78                   | 21.82                      | 21.82                    |                     |
| 10              | 64QAM      | 25      | 12        | 21.84                   | 21.98                      | 21.46                    | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.82                   | 21.93                      | 21.00                    |                     |
| 10              | 64QAM      | 50      | 0         | 21.76                   | 21.94                      | 21.20                    |                     |
| Channel         |            |         |           | 26065                   | 26340                      | 26665                    | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5                  | 1880                       | 1912.5                   |                     |
| 5               | QPSK       | 1       | 0         | 24.60                   | 24.72                      | 24.90                    | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.65                   | 24.84                      | 24.43                    |                     |
| 5               | QPSK       | 1       | 24        | 24.64                   | 24.80                      | 24.08                    |                     |
| 5               | QPSK       | 12      | 0         | 23.72                   | 23.83                      | 23.86                    | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.79                   | 23.91                      | 23.61                    |                     |
| 5               | QPSK       | 12      | 13        | 23.78                   | 23.94                      | 23.38                    |                     |
| 5               | QPSK       | 25      | 0         | 23.74                   | 23.90                      | 23.55                    | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.03                   | 24.05                      | 24.22                    |                     |
| 5               | 16QAM      | 1       | 12        | 23.94                   | 24.12                      | 23.81                    |                     |
| 5               | 16QAM      | 1       | 24        | 23.97                   | 24.15                      | 23.46                    | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.74                   | 22.86                      | 22.99                    |                     |
| 5               | 16QAM      | 12      | 7         | 22.81                   | 22.95                      | 22.77                    |                     |
| 5               | 16QAM      | 12      | 13        | 22.82                   | 22.98                      | 22.55                    | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.79                   | 22.90                      | 22.73                    |                     |
| 5               | 64QAM      | 1       | 0         | 22.86                   | 23.00                      | 22.35                    |                     |
| 5               | 64QAM      | 1       | 12        | 22.84                   | 23.00                      | 21.93                    | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.86                   | 23.03                      | 21.55                    |                     |
| 5               | 64QAM      | 12      | 0         | 21.76                   | 21.92                      | 21.17                    |                     |
| 5               | 64QAM      | 12      | 7         | 21.84                   | 21.99                      | 21.00                    | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.68                   | 22.00                      | 20.74                    |                     |
| 5               | 64QAM      | 25      | 0         | 21.81                   | 21.93                      | 20.87                    |                     |
| Channel         |            |         |           | 26055                   | 26340                      | 26675                    | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1851.5                  | 1880                       | 1913.5                   |                     |
| 3               | QPSK       | 1       | 0         | 24.54                   | 24.63                      | 24.53                    | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.69                   | 24.83                      | 24.34                    |                     |
| 3               | QPSK       | 1       | 14        | 24.67                   | 24.83                      | 24.09                    |                     |
| 3               | QPSK       | 8       | 0         | 23.69                   | 23.80                      | 23.60                    | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.78                   | 23.90                      | 23.48                    |                     |
| 3               | QPSK       | 8       | 7         | 23.75                   | 23.89                      | 23.37                    |                     |
| 3               | QPSK       | 15      | 0         | 23.72                   | 23.90                      | 23.43                    | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.90                   | 23.95                      | 23.83                    |                     |
| 3               | 16QAM      | 1       | 8         | 24.00                   | 24.20                      | 23.68                    |                     |
| 3               | 16QAM      | 1       | 14        | 23.99                   | 24.16                      | 23.42                    | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.76                   | 22.89                      | 22.72                    |                     |
| 3               | 16QAM      | 8       | 4         | 22.82                   | 22.96                      | 22.61                    |                     |
| 3               | 16QAM      | 8       | 7         | 22.81                   | 22.99                      | 22.48                    | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.79                   | 22.91                      | 22.56                    |                     |
| 3               | 64QAM      | 1       | 0         | 22.80                   | 22.87                      | 21.94                    |                     |
| 3               | 64QAM      | 1       | 8         | 22.93                   | 23.11                      | 21.80                    | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.90                   | 23.08                      | 21.57                    |                     |
| 3               | 64QAM      | 8       | 0         | 21.76                   | 21.90                      | 20.85                    |                     |
| 3               | 64QAM      | 8       | 4         | 21.84                   | 22.00                      | 20.77                    | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.83                   | 21.99                      | 20.64                    |                     |
| 3               | 64QAM      | 15      | 0         | 21.79                   | 21.92                      | 20.73                    |                     |
| Channel         |            |         |           | 26047                   | 26340                      | 26683                    | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1850.7                  | 1880                       | 1914.3                   |                     |
| 1.4             | QPSK       | 1       | 0         | 24.51                   | 24.66                      | 24.19                    | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.62                   | 24.74                      | 24.13                    |                     |
| 1.4             | QPSK       | 1       | 5         | 24.59                   | 24.76                      | 24.02                    |                     |
| 1.4             | QPSK       | 3       | 0         | 24.56                   | 24.71                      | 24.13                    | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.63                   | 24.77                      | 24.17                    |                     |
| 1.4             | QPSK       | 3       | 3         | 24.59                   | 24.77                      | 24.04                    |                     |
| 1.4             | QPSK       | 6       | 0         | 23.67                   | 23.83                      | 23.21                    | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.80                   | 23.95                      | 23.48                    |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.99                   | 24.12                      | 23.47                    |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.94                   | 24.09                      | 23.36                    | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.80                   | 23.77                      | 23.31                    |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.70                   | 23.85                      | 23.31                    |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.65                   | 23.82                      | 23.22                    | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.73                   | 22.90                      | 22.41                    |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.77                   | 22.91                      | 21.92                    |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.85                   | 23.04                      | 21.85                    | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.79                   | 22.99                      | 22.00                    |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.72                   | 22.92                      | 21.81                    |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.80                   | 22.97                      | 21.78                    | 23.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.78                   | 22.96                      | 21.73                    |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.67                   | 21.85                      | 20.79                    |                     |



| Band 26         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26745           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 831.5           | 831.5              | 841.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.78           | 24.52              | 24.57            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.46           | 24.51              | 24.50            |                     |
| 15              | QPSK       | 1       | 74        | 24.49           | 24.48              | 24.27            |                     |
| 15              | QPSK       | 36      | 0         | 23.67           | 23.65              | 23.65            |                     |
| 15              | QPSK       | 36      | 20        | 23.66           | 23.61              | 23.63            | 24.7                |
| 15              | QPSK       | 36      | 39        | 23.60           | 23.63              | 23.64            |                     |
| 15              | QPSK       | 75      | 0         | 23.68           | 23.60              | 23.62            |                     |
| 15              | 16QAM      | 1       | 0         | 23.93           | 23.86              | 23.88            |                     |
| 15              | 16QAM      | 1       | 37        | 23.82           | 23.86              | 23.85            | 24.7                |
| 15              | 16QAM      | 1       | 74        | 23.81           | 23.83              | 23.62            |                     |
| 15              | 16QAM      | 36      | 0         | 22.63           | 22.66              | 22.67            |                     |
| 15              | 16QAM      | 36      | 20        | 22.65           | 22.61              | 22.60            |                     |
| 15              | 16QAM      | 36      | 39        | 22.59           | 22.65              | 22.62            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.67           | 22.62              | 22.65            |                     |
| 15              | 64QAM      | 1       | 0         | 22.78           | 22.72              | 22.72            |                     |
| 15              | 64QAM      | 1       | 37        | 22.70           | 22.80              | 22.76            |                     |
| 15              | 64QAM      | 1       | 74        | 22.69           | 22.72              | 22.70            | 23.7                |
| 15              | 64QAM      | 36      | 0         | 21.68           | 21.69              | 21.72            |                     |
| 15              | 64QAM      | 36      | 20        | 21.69           | 21.63              | 21.65            |                     |
| 15              | 64QAM      | 36      | 39        | 21.65           | 21.71              | 21.58            |                     |
| 15              | 64QAM      | 75      | 0         | 21.69           | 21.63              | 21.63            | 22.7                |
| Channel         |            |         |           | 26740           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 819             | 831.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.72           | 24.59              | 24.60            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.57           | 24.55              | 24.59            |                     |
| 10              | QPSK       | 1       | 49        | 24.60           | 24.64              | 24.38            |                     |
| 10              | QPSK       | 25      | 0         | 23.74           | 23.66              | 23.68            |                     |
| 10              | QPSK       | 25      | 12        | 23.76           | 23.66              | 23.65            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.65           | 23.68              | 23.67            |                     |
| 10              | QPSK       | 50      | 0         | 23.70           | 23.65              | 23.66            |                     |
| 10              | 16QAM      | 1       | 0         | 24.07           | 23.96              | 23.96            |                     |
| 10              | 16QAM      | 1       | 25        | 23.94           | 24.01              | 23.97            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 23.97           | 24.02              | 23.73            |                     |
| 10              | 16QAM      | 25      | 0         | 22.74           | 22.69              | 22.66            |                     |
| 10              | 16QAM      | 25      | 12        | 22.76           | 22.71              | 22.67            |                     |
| 10              | 16QAM      | 25      | 25        | 22.64           | 22.63              | 22.63            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.72           | 22.66              | 22.63            |                     |
| 10              | 64QAM      | 1       | 0         | 22.84           | 22.78              | 22.88            |                     |
| 10              | 64QAM      | 1       | 25        | 22.90           | 22.93              | 22.93            |                     |
| 10              | 64QAM      | 1       | 49        | 22.89           | 22.91              | 21.83            | 22.7                |
| 10              | 64QAM      | 25      | 0         | 21.80           | 21.71              | 21.72            |                     |
| 10              | 64QAM      | 25      | 12        | 21.76           | 21.69              | 21.72            |                     |
| 10              | 64QAM      | 25      | 25        | 21.68           | 21.70              | 21.21            |                     |
| 10              | 64QAM      | 50      | 0         | 21.72           | 21.65              | 21.50            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26715           | 26865              | 27015            |                     |
| Frequency (MHz) |            |         |           | 816.5           | 831.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.75           | 24.61              | 24.68            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72           | 24.63              | 24.47            |                     |
| 5               | QPSK       | 1       | 24        | 24.56           | 24.64              | 24.43            |                     |
| 5               | QPSK       | 12      | 0         | 23.79           | 23.72              | 23.74            |                     |
| 5               | QPSK       | 12      | 7         | 23.60           | 23.72              | 23.57            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.71           | 23.67              | 23.31            |                     |
| 5               | QPSK       | 25      | 0         | 23.76           | 23.67              | 23.64            |                     |
| 5               | 16QAM      | 1       | 0         | 24.09           | 23.94              | 23.99            |                     |
| 5               | 16QAM      | 1       | 12        | 24.00           | 23.97              | 23.85            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.91           | 24.01              | 23.71            |                     |
| 5               | 16QAM      | 12      | 0         | 22.84           | 22.72              | 22.73            |                     |
| 5               | 16QAM      | 12      | 7         | 22.81           | 22.76              | 22.71            |                     |
| 5               | 16QAM      | 12      | 13        | 22.73           | 22.68              | 22.44            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.78           | 22.66              | 22.72            |                     |
| 5               | 64QAM      | 1       | 0         | 22.69           | 22.90              | 22.83            |                     |
| 5               | 64QAM      | 1       | 12        | 22.90           | 22.88              | 22.03            |                     |
| 5               | 64QAM      | 1       | 24        | 22.61           | 22.86              | 21.86            | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.63           | 21.78              | 21.45            |                     |
| 5               | 64QAM      | 12      | 7         | 21.84           | 21.81              | 21.00            |                     |
| 5               | 64QAM      | 12      | 13        | 21.74           | 21.78              | 20.80            |                     |
| 5               | 64QAM      | 25      | 0         | 21.77           | 21.68              | 20.99            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26705           | 26865              | 27025            |                     |
| Frequency (MHz) |            |         |           | 815.5           | 831.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.72           | 24.62              | 24.62            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.75           | 24.69              | 24.16            |                     |
| 3               | QPSK       | 1       | 14        | 24.63           | 24.66              | 24.26            |                     |
| 3               | QPSK       | 8       | 0         | 23.83           | 23.68              | 23.39            |                     |
| 3               | QPSK       | 8       | 4         | 23.77           | 23.72              | 23.28            | 24.7                |
| 3               | QPSK       | 8       | 7         | 23.74           | 23.70              | 23.29            |                     |
| 3               | QPSK       | 15      | 0         | 23.78           | 23.67              | 23.30            |                     |
| 3               | 16QAM      | 1       | 0         | 24.09           | 23.91              | 23.81            |                     |
| 3               | 16QAM      | 1       | 8         | 24.06           | 24.06              | 23.47            | 24.7                |
| 3               | 16QAM      | 1       | 14        | 23.95           | 23.95              | 23.55            |                     |
| 3               | 16QAM      | 8       | 0         | 22.86           | 22.77              | 22.54            |                     |
| 3               | 16QAM      | 8       | 4         | 22.88           | 22.77              | 22.42            |                     |
| 3               | 16QAM      | 8       | 7         | 22.78           | 22.76              | 22.45            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.78           | 22.70              | 22.47            |                     |
| 3               | 64QAM      | 1       | 0         | 22.72           | 22.63              | 22.00            |                     |
| 3               | 64QAM      | 1       | 8         | 23.03           | 22.95              | 21.88            |                     |
| 3               | 64QAM      | 1       | 14        | 22.86           | 22.90              | 21.83            | 22.7                |
| 3               | 64QAM      | 8       | 0         | 21.79           | 21.74              | 20.85            |                     |
| 3               | 64QAM      | 8       | 4         | 21.88           | 21.81              | 20.77            |                     |
| 3               | 64QAM      | 8       | 7         | 21.61           | 21.72              | 20.92            |                     |
| 3               | 64QAM      | 15      | 0         | 21.81           | 21.67              | 20.86            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26697           | 26865              | 27033            |                     |
| Frequency (MHz) |            |         |           | 814.7           | 831.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.68           | 24.52              | 24.13            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.71           | 24.63              | 24.26            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.61           | 24.55              | 24.29            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59           | 24.55              | 24.17            |                     |
| 1.4             | QPSK       | 3       | 1         | 24.74           | 24.58              | 24.22            | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.67           | 24.55              | 24.37            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.71           | 23.63              | 23.29            |                     |
| 1.4             | 16QAM      | 1       | 0         | 24.01           | 23.86              | 23.45            |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.04           | 23.98              | 23.59            | 24.7                |
| 1.4             | 16QAM      | 1       | 5         | 23.93           | 23.86              | 23.65            |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.75           | 23.65              | 23.27            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.79           | 23.65              | 23.32            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.71           | 23.67              | 23.46            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.82           | 22.75              | 22.46            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.74           | 22.76              | 21.86            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.88           | 22.88              | 21.90            |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.86           | 22.76              | 21.85            | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.76           | 22.73              | 21.85            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.82           | 22.82              | 21.93            |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.84           | 22.79              | 21.86            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.65           | 21.68              | 20.87            | 22.7                |



| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 2           |            |         |           |                |                   |                 |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dbm) |
| Channel         |            |         |           | 2771.0         |                   |                 |                     |
| Frequency (MHz) |            |         |           | 2310           |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 23.02             |                 | 23.7                |
| 10              | QPSK       | 1       | 25        |                | 23.01             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 22.92             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 21.96             |                 | 22.7                |
| 10              | QPSK       | 25      | 12        |                | 22.00             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 22.11             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 22.00             |                 | 22.7                |
| 10              | 16QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 22.28             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 22.31             |                 | 21.7                |
| 10              | 16QAM      | 25      | 0         |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 21.11             |                 | 21.7                |
| 10              | 16QAM      | 50      | 0         |                | 20.98             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 21.18             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 21.21             |                 | 21.7                |
| 10              | 64QAM      | 1       | 49        |                | 21.22             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.98             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 20.04             |                 | 20.7                |
| 10              | 64QAM      | 25      | 25        |                | 20.13             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 20.02             |                 |                     |
| Channel         |            |         |           | 2768.5         | 2771.0            | 2773.5          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 2307.5         | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 22.86          | 22.86             | 22.85           | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.99          | 23.01             | 22.99           |                     |
| 5               | QPSK       | 1       | 24        | 23.01          | 23.00             | 22.96           |                     |
| 5               | QPSK       | 12      | 0         | 22.02          | 21.96             | 21.97           | 22.7                |
| 5               | QPSK       | 12      | 7         | 22.08          | 22.07             | 22.05           |                     |
| 5               | QPSK       | 12      | 13        | 22.06          | 22.06             | 22.03           |                     |
| 5               | QPSK       | 25      | 0         | 22.04          | 21.99             | 22.00           | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.17          | 22.16             | 22.19           |                     |
| 5               | 16QAM      | 1       | 12        | 22.26          | 22.25             | 22.21           |                     |
| 5               | 16QAM      | 1       | 24        | 22.32          | 22.32             | 22.30           | 21.7                |
| 5               | 16QAM      | 12      | 0         | 21.06          | 21.01             | 21.03           |                     |
| 5               | 16QAM      | 12      | 7         | 21.09          | 21.09             | 21.09           |                     |
| 5               | 16QAM      | 12      | 13        | 21.07          | 21.10             | 21.05           | 21.7                |
| 5               | 16QAM      | 25      | 0         | 21.05          | 21.02             | 21.02           |                     |
| 5               | 64QAM      | 1       | 0         | 21.11          | 21.14             | 21.15           |                     |
| 5               | 64QAM      | 1       | 12        | 21.19          | 21.20             | 21.16           | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.25          | 21.22             | 21.22           |                     |
| 5               | 64QAM      | 12      | 0         | 20.09          | 20.02             | 20.07           |                     |
| 5               | 64QAM      | 12      | 7         | 20.15          | 20.15             | 20.10           | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.11          | 20.11             | 20.10           |                     |
| 5               | 64QAM      | 25      | 0         | 20.10          | 20.01             | 20.03           |                     |



| Band 66         |            |         |           |                    |                       |                     |                       |  |  |
|-----------------|------------|---------|-----------|--------------------|-----------------------|---------------------|-----------------------|--|--|
| Ant 2           |            |         |           |                    |                       |                     |                       |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch. / | Power<br>Middle Ch. / | Power<br>High Ch. / | Tune-up<br>unit (dBm) |  |  |
| Channel         |            |         |           | 132072             | 132322                | 132572              |                       |  |  |
| Frequency (MHz) |            |         |           | 1720               | 1745                  | 1770                |                       |  |  |
| 20              | QPSK       | 1       | 0         | 24.35              | 24.39                 | 24.57               | 25.7                  |  |  |
| 20              | QPSK       | 1       | 49        | 24.22              | 24.25                 | 24.30               |                       |  |  |
| 20              | QPSK       | 1       | 99        | 24.34              | 24.32                 | 24.26               |                       |  |  |
| 20              | QPSK       | 50      | 0         | 23.40              | 23.47                 | 23.49               | 24.7                  |  |  |
| 20              | QPSK       | 50      | 24        | 23.46              | 23.43                 | 23.47               |                       |  |  |
| 20              | QPSK       | 50      | 50        | 23.48              | 23.48                 | 23.50               |                       |  |  |
| 20              | QPSK       | 100     | 0         | 23.46              | 23.40                 | 23.47               | 24.7                  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.57              | 23.74                 | 23.76               |                       |  |  |
| 20              | 16QAM      | 1       | 49        | 23.56              | 23.64                 | 23.63               |                       |  |  |
| 20              | 16QAM      | 1       | 99        | 23.70              | 23.64                 | 23.60               | 23.7                  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.37              | 22.48                 | 22.54               |                       |  |  |
| 20              | 16QAM      | 50      | 24        | 22.46              | 22.43                 | 22.47               |                       |  |  |
| 20              | 16QAM      | 50      | 50        | 22.44              | 22.47                 | 22.51               | 23.7                  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.44              | 22.41                 | 22.48               |                       |  |  |
| 20              | 64QAM      | 1       | 0         | 22.46              | 22.43                 | 22.61               |                       |  |  |
| 20              | 64QAM      | 1       | 49        | 22.44              | 22.57                 | 22.12               | 23.7                  |  |  |
| 20              | 64QAM      | 1       | 99        | 22.58              | 22.59                 | 22.49               |                       |  |  |
| 20              | 64QAM      | 50      | 0         | 21.39              | 21.46                 | 21.51               |                       |  |  |
| 20              | 64QAM      | 50      | 24        | 21.48              | 21.45                 | 21.31               | 22.7                  |  |  |
| 20              | 64QAM      | 50      | 50        | 21.45              | 21.49                 | 21.54               |                       |  |  |
| 20              | 64QAM      | 100     | 0         | 21.49              | 21.46                 | 21.48               |                       |  |  |
| Channel         |            |         |           | 132047             | 132322                | 132597              | Tune-up<br>unit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1717.5             | 1745                  | 1772.5              |                       |  |  |
| 15              | QPSK       | 1       | 0         | 24.30              | 24.41                 | 24.38               | 25.7                  |  |  |
| 15              | QPSK       | 1       | 37        | 24.21              | 24.29                 | 24.33               |                       |  |  |
| 15              | QPSK       | 1       | 74        | 24.34              | 24.36                 | 24.31               |                       |  |  |
| 15              | QPSK       | 36      | 0         | 23.37              | 23.44                 | 23.49               | 24.7                  |  |  |
| 15              | QPSK       | 36      | 20        | 23.43              | 23.43                 | 23.47               |                       |  |  |
| 15              | QPSK       | 36      | 39        | 23.42              | 23.48                 | 23.52               |                       |  |  |
| 15              | QPSK       | 75      | 0         | 23.44              | 23.43                 | 23.47               | 24.7                  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.60              | 23.74                 | 23.73               |                       |  |  |
| 15              | 16QAM      | 1       | 37        | 23.59              | 23.63                 | 23.68               |                       |  |  |
| 15              | 16QAM      | 1       | 74        | 23.64              | 23.66                 | 23.65               | 23.7                  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.36              | 22.46                 | 22.49               |                       |  |  |
| 15              | 16QAM      | 36      | 20        | 22.42              | 22.40                 | 22.45               |                       |  |  |
| 15              | 16QAM      | 36      | 39        | 22.42              | 22.46                 | 22.50               | 23.7                  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.46              | 22.41                 | 22.45               |                       |  |  |
| 15              | 64QAM      | 1       | 0         | 22.46              | 22.59                 | 22.58               |                       |  |  |
| 15              | 64QAM      | 1       | 37        | 22.47              | 22.56                 | 22.44               | 23.7                  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.55              | 22.58                 | 22.57               |                       |  |  |
| 15              | 64QAM      | 36      | 0         | 21.38              | 21.49                 | 21.21               |                       |  |  |
| 15              | 64QAM      | 36      | 20        | 21.43              | 21.44                 | 21.46               | 22.7                  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.45              | 21.50                 | 21.52               |                       |  |  |
| 15              | 64QAM      | 75      | 0         | 21.44              | 21.42                 | 21.47               |                       |  |  |
| Channel         |            |         |           | 132022             | 132322                | 132622              | Tune-up<br>unit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1715               | 1745                  | 1775                |                       |  |  |
| 10              | QPSK       | 1       | 0         | 24.37              | 24.44                 | 24.45               | 25.7                  |  |  |
| 10              | QPSK       | 1       | 25        | 24.30              | 24.40                 | 24.44               |                       |  |  |
| 10              | QPSK       | 1       | 49        | 24.30              | 24.39                 | 24.41               |                       |  |  |
| 10              | QPSK       | 25      | 0         | 23.41              | 23.46                 | 23.49               | 24.7                  |  |  |
| 10              | QPSK       | 25      | 12        | 23.45              | 23.49                 | 23.49               |                       |  |  |
| 10              | QPSK       | 25      | 25        | 23.44              | 23.50                 | 23.57               |                       |  |  |
| 10              | QPSK       | 50      | 0         | 23.46              | 23.47                 | 23.49               | 24.7                  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.72              | 23.82                 | 23.84               |                       |  |  |
| 10              | 16QAM      | 1       | 25        | 23.70              | 23.79                 | 23.81               |                       |  |  |
| 10              | 16QAM      | 1       | 49        | 23.73              | 23.76                 | 23.81               | 23.7                  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.48              | 22.47                 | 22.50               |                       |  |  |
| 10              | 16QAM      | 25      | 12        | 22.48              | 22.47                 | 22.52               |                       |  |  |
| 10              | 16QAM      | 25      | 25        | 22.41              | 22.50                 | 22.55               | 23.7                  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.45              | 22.46                 | 22.48               |                       |  |  |
| 10              | 64QAM      | 1       | 0         | 22.37              | 22.61                 | 22.08               |                       |  |  |
| 10              | 64QAM      | 1       | 25        | 22.61              | 22.71                 | 22.78               | 23.7                  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.61              | 22.67                 | 22.72               |                       |  |  |
| 10              | 64QAM      | 25      | 0         | 21.45              | 21.49                 | 21.49               |                       |  |  |
| 10              | 64QAM      | 25      | 12        | 21.48              | 21.51                 | 21.55               | 22.7                  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.45              | 21.53                 | 21.60               |                       |  |  |
| 10              | 64QAM      | 50      | 0         | 21.47              | 21.49                 | 21.52               |                       |  |  |
| Channel         |            |         |           | 131997             | 132322                | 132647              | Tune-up<br>unit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1712.5             | 1745                  | 1777.5              |                       |  |  |
| 5               | QPSK       | 1       | 0         | 24.35              | 24.40                 | 24.49               | 25.7                  |  |  |
| 5               | QPSK       | 1       | 12        | 24.39              | 24.40                 | 24.52               |                       |  |  |
| 5               | QPSK       | 1       | 24        | 24.33              | 24.43                 | 24.46               |                       |  |  |
| 5               | QPSK       | 12      | 0         | 23.44              | 23.46                 | 23.59               | 24.7                  |  |  |
| 5               | QPSK       | 12      | 7         | 23.47              | 23.56                 | 23.59               |                       |  |  |
| 5               | QPSK       | 12      | 13        | 23.44              | 23.53                 | 23.57               |                       |  |  |
| 5               | QPSK       | 25      | 0         | 23.43              | 23.45                 | 23.55               | 24.7                  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.75              | 23.73                 | 23.80               |                       |  |  |
| 5               | 16QAM      | 1       | 12        | 23.73              | 23.81                 | 23.84               |                       |  |  |
| 5               | 16QAM      | 1       | 24        | 23.67              | 23.78                 | 23.80               | 23.7                  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.46              | 22.51                 | 22.62               |                       |  |  |
| 5               | 16QAM      | 12      | 7         | 22.50              | 22.61                 | 22.64               |                       |  |  |
| 5               | 16QAM      | 12      | 13        | 22.47              | 22.57                 | 22.58               | 23.7                  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.46              | 22.48                 | 22.59               |                       |  |  |
| 5               | 64QAM      | 1       | 0         | 22.41              | 22.71                 | 22.81               |                       |  |  |
| 5               | 64QAM      | 1       | 12        | 22.64              | 22.73                 | 22.77               | 23.7                  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.65              | 22.75                 | 22.73               |                       |  |  |
| 5               | 64QAM      | 12      | 0         | 21.47              | 21.53                 | 21.64               |                       |  |  |
| 5               | 64QAM      | 12      | 7         | 21.53              | 21.61                 | 21.64               | 22.7                  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.49              | 21.55                 | 21.60               |                       |  |  |
| 5               | 64QAM      | 25      | 0         | 21.44              | 21.49                 | 21.59               |                       |  |  |
| Channel         |            |         |           | 131987             | 132322                | 132657              | Tune-up<br>unit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1711.5             | 1745                  | 1778.5              |                       |  |  |
| 3               | QPSK       | 1       | 0         | 24.38              | 24.42                 | 24.50               | 25.7                  |  |  |
| 3               | QPSK       | 1       | 8         | 24.40              | 24.52                 | 24.56               |                       |  |  |
| 3               | QPSK       | 1       | 14        | 24.35              | 24.45                 | 24.48               |                       |  |  |
| 3               | QPSK       | 8       | 0         | 23.45              | 23.49                 | 23.55               | 24.7                  |  |  |
| 3               | QPSK       | 8       | 4         | 23.47              | 23.53                 | 23.57               |                       |  |  |
| 3               | QPSK       | 8       | 7         | 23.43              | 23.52                 | 23.54               |                       |  |  |
| 3               | QPSK       | 15      | 0         | 23.44              | 23.49                 | 23.57               | 24.7                  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.70              | 23.70                 | 23.82               |                       |  |  |
| 3               | 16QAM      | 1       | 8         | 23.76              | 23.83                 | 23.87               |                       |  |  |
| 3               | 16QAM      | 1       | 14        | 23.66              | 23.78                 | 23.81               | 23.7                  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.50              | 22.53                 | 22.66               |                       |  |  |
| 3               | 16QAM      | 8       | 4         | 22.55              | 22.61                 | 22.63               |                       |  |  |
| 3               | 16QAM      | 8       | 7         | 22.51              | 22.58                 | 22.59               | 23.7                  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.47              | 22.49                 | 22.58               |                       |  |  |
| 3               | 64QAM      | 1       | 0         | 22.40              | 22.69                 | 22.78               |                       |  |  |
| 3               | 64QAM      | 1       | 8         | 22.70              | 22.83                 | 22.81               | 23.7                  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.67              | 22.73                 | 22.75               |                       |  |  |
| 3               | 64QAM      | 8       | 0         | 21.39              | 21.53                 | 21.65               |                       |  |  |
| 3               | 64QAM      | 8       | 4         | 21.53              | 21.64                 | 21.68               | 22.7                  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.50              | 21.58                 | 21.58               |                       |  |  |
| 3               | 64QAM      | 15      | 0         | 21.48              | 21.49                 | 21.62               |                       |  |  |
| Channel         |            |         |           | 131979             | 132322                | 132665              | Tune-up<br>unit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1710.7             | 1745                  | 1779.3              |                       |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.27              | 24.36                 | 24.43               | 25.7                  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.30              | 24.40                 | 24.42               |                       |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.22              | 24.37                 | 24.41               |                       |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.33              | 24.43                 | 24.44               | 24.7                  |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.35              | 24.47                 | 24.48               |                       |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.27              | 24.38                 | 24.42               |                       |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.38              | 23.43                 | 23.48               | 24.7                  |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.59              | 23.73                 | 23.75               |                       |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.74              | 23.83                 | 23.85               |                       |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.59              | 23.73                 | 23.76               | 24.7                  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.46              | 23.55                 | 23.63               |                       |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.46              | 23.55                 | 23.63               |                       |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.41              | 21.83                 | 22.58               | 23.7                  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.18              | 21.79                 | 22.44               |                       |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.41              | 21.72                 | 22.74               |                       |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.41              | 21.82                 | 22.67               | 23.7                  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.31              | 21.74                 | 22.62               |                       |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.44              | 21.79                 | 22.68               |                       |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.45              | 21.73                 | 22.61               |                       |  |  |



| Band 71         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222          | 133322             | 133372           |                     |
| Frequency (MHz) |            |         |           | 673             | 683                | 688              |                     |
| 20              | QPSK       | 1       | 0         | 24.77           | 24.67              | 24.68            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.65           | 24.65              | 24.65            |                     |
| 20              | QPSK       | 1       | 99        | 24.68           | 24.66              | 24.61            |                     |
| 20              | QPSK       | 50      | 0         | 23.76           | 23.76              | 23.72            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.80           | 23.74              | 23.75            |                     |
| 20              | QPSK       | 50      | 50        | 23.84           | 23.78              | 23.75            |                     |
| 20              | QPSK       | 100     | 0         | 23.79           | 23.71              | 23.77            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.06           | 23.96              | 24.00            |                     |
| 20              | 16QAM      | 1       | 49        | 24.01           | 24.03              | 24.04            |                     |
| 20              | 16QAM      | 1       | 99        | 24.03           | 24.01              | 23.95            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.77           | 22.75              | 22.75            |                     |
| 20              | 16QAM      | 50      | 24        | 22.82           | 22.77              | 22.73            |                     |
| 20              | 16QAM      | 50      | 50        | 22.82           | 22.77              | 22.78            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.79           | 22.73              | 22.78            |                     |
| 20              | 64QAM      | 1       | 0         | 22.04           | 22.83              | 22.82            | 23.7                |
| 20              | 64QAM      | 1       | 49        | 22.63           | 22.90              | 22.29            |                     |
| 20              | 64QAM      | 1       | 99        | 22.04           | 22.89              | 22.87            |                     |
| 20              | 64QAM      | 50      | 0         | 21.00           | 21.70              | 21.40            | 22.7                |
| 20              | 64QAM      | 50      | 24        | 21.30           | 21.64              | 21.57            |                     |
| 20              | 64QAM      | 50      | 50        | 21.84           | 21.60              | 21.74            |                     |
| 20              | 64QAM      | 100     | 0         | 21.53           | 21.76              | 21.80            | Tune-up limit (dBm) |
| Channel         |            |         |           | 133197          | 133297             | 133397           |                     |
| Frequency (MHz) |            |         |           | 670.5           | 680.5              | 690.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.74           | 24.65              | 24.63            |                     |
| 15              | QPSK       | 1       | 37        | 24.02           | 24.66              | 24.61            | 25.7                |
| 15              | QPSK       | 1       | 74        | 24.65           | 24.68              | 24.64            |                     |
| 15              | QPSK       | 36      | 0         | 23.73           | 23.71              | 23.69            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.80           | 23.73              | 23.78            |                     |
| 15              | QPSK       | 36      | 39        | 23.73           | 23.76              | 23.74            |                     |
| 15              | QPSK       | 75      | 0         | 23.81           | 23.74              | 23.68            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.05           | 24.01              | 23.98            |                     |
| 15              | 16QAM      | 1       | 37        | 23.95           | 24.02              | 24.00            |                     |
| 15              | 16QAM      | 1       | 74        | 23.97           | 24.00              | 23.98            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.76           | 22.75              | 22.71            |                     |
| 15              | 16QAM      | 36      | 20        | 22.79           | 22.74              | 22.79            |                     |
| 15              | 16QAM      | 36      | 39        | 22.77           | 22.79              | 22.75            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.63           | 22.73              | 22.70            |                     |
| 15              | 64QAM      | 1       | 0         | 22.02           | 22.43              | 22.76            |                     |
| 15              | 64QAM      | 1       | 37        | 21.86           | 22.94              | 22.88            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.88           | 22.60              | 22.84            |                     |
| 15              | 64QAM      | 36      | 0         | 20.97           | 21.77              | 21.44            |                     |
| 15              | 64QAM      | 36      | 20        | 20.94           | 21.78              | 21.81            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.48           | 21.56              | 21.78            |                     |
| 15              | 64QAM      | 75      | 0         | 21.29           | 21.75              | 21.67            |                     |
| Channel         |            |         |           | 133172          | 133272             | 133422           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668             | 678                | 693              |                     |
| 10              | QPSK       | 1       | 0         | 24.76           | 24.64              | 24.66            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.61           | 24.62              | 24.63            |                     |
| 10              | QPSK       | 1       | 49        | 24.66           | 24.71              | 24.62            |                     |
| 10              | QPSK       | 25      | 0         | 23.78           | 23.71              | 23.69            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.79           | 23.82              | 23.70            |                     |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.78              | 23.74            |                     |
| 10              | QPSK       | 50      | 0         | 23.80           | 23.81              | 23.71            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.10           | 24.02              | 24.04            |                     |
| 10              | 16QAM      | 1       | 25        | 23.98           | 24.06              | 24.00            |                     |
| 10              | 16QAM      | 1       | 49        | 23.98           | 24.07              | 23.96            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.76           | 22.70              | 22.68            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.81              | 22.68            |                     |
| 10              | 16QAM      | 25      | 25        | 22.65           | 22.77              | 22.73            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.79           | 22.80              | 22.69            |                     |
| 10              | 64QAM      | 1       | 0         | 21.80           | 22.30              | 22.77            |                     |
| 10              | 64QAM      | 1       | 25        | 22.01           | 22.95              | 22.95            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.14           | 22.96              | 22.45            |                     |
| 10              | 64QAM      | 25      | 0         | 20.82           | 21.71              | 21.71            |                     |
| 10              | 64QAM      | 25      | 12        | 20.84           | 21.84              | 21.76            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.71           | 21.81              | 21.64            |                     |
| 10              | 64QAM      | 50      | 0         | 20.83           | 21.77              | 21.69            |                     |
| Channel         |            |         |           | 133147          | 133247             | 133447           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5           | 675.5              | 695.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.57           | 24.69              | 24.72            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.71           | 24.65              | 24.70            |                     |
| 5               | QPSK       | 1       | 24        | 24.70           | 24.68              | 24.63            |                     |
| 5               | QPSK       | 12      | 0         | 23.73           | 23.76              | 23.74            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.84           | 23.79              | 23.76            |                     |
| 5               | QPSK       | 12      | 13        | 23.76           | 23.76              | 23.70            |                     |
| 5               | QPSK       | 25      | 0         | 23.76           | 23.76              | 23.68            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.75           | 24.01              | 24.02            |                     |
| 5               | 16QAM      | 1       | 12        | 23.97           | 24.03              | 23.97            |                     |
| 5               | 16QAM      | 1       | 24        | 23.95           | 24.02              | 23.93            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64           | 22.80              | 22.78            |                     |
| 5               | 16QAM      | 12      | 7         | 22.86           | 22.80              | 22.78            |                     |
| 5               | 16QAM      | 12      | 13        | 22.77           | 22.77              | 22.70            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.69           | 22.81              | 22.70            |                     |
| 5               | 64QAM      | 1       | 0         | 21.74           | 22.06              | 22.91            |                     |
| 5               | 64QAM      | 1       | 12        | 21.79           | 22.94              | 22.70            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.96           | 22.96              | 22.25            |                     |
| 5               | 64QAM      | 12      | 0         | 20.82           | 21.49              | 21.68            |                     |
| 5               | 64QAM      | 12      | 7         | 21.00           | 21.86              | 21.73            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.99           | 21.81              | 21.61            |                     |
| 5               | 64QAM      | 25      | 0         | 20.76           | 21.59              | 21.48            |                     |



| Band 2          |            |         |           |                          |                          |                           |                        |  |  |  |  |
|-----------------|------------|---------|-----------|--------------------------|--------------------------|---------------------------|------------------------|--|--|--|--|
| Ann 0           |            |         |           |                          |                          |                           |                        |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch. / Freq. | Power<br>Mid Ch. / Freq. | Power<br>High Ch. / Freq. | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 1870.0                   | 1880.0                   | 1900.0                    |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 1860                     | 1880                     | 1900                      |                        |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 24.72                    | 24.80                    | 24.91                     | 25.7                   |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 24.67                    | 24.74                    | 24.77                     |                        |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 24.64                    | 24.71                    | 24.79                     |                        |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.78                    | 23.84                    | 23.88                     | 24.7                   |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.87                    | 23.86                    | 23.91                     |                        |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.88                    | 23.94                    | 23.99                     |                        |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.86                    | 23.87                    | 23.94                     | 24.7                   |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 24.10                    | 24.10                    | 24.20                     |                        |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 24.03                    | 24.06                    | 24.16                     |                        |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.93                    | 24.12                    | 24.12                     | 23.7                   |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.80                    | 22.85                    | 22.89                     |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.89                    | 22.87                    | 22.94                     |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.87                    | 22.95                    | 23.00                     | 23.7                   |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.86                    | 22.88                    | 22.89                     |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.94                    | 22.96                    | 23.03                     | 23.7                   |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.91                    | 22.97                    | 22.98                     |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 22.84                    | 23.00                    | 22.49                     |                        |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 21.81                    | 21.87                    | 21.54                     | 22.7                   |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 21.92                    | 21.92                    | 21.54                     |                        |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 21.86                    | 21.97                    | 21.58                     |                        |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.87                    | 21.90                    | 21.49                     | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 1867.5                   | 1880.0                   | 1912.5                    |                        |  |  |  |  |
| Frequency (MHz) |            |         |           | 1857.5                   | 1880                     | 1902.5                    |                        |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 24.75                    | 24.83                    | 24.87                     | 25.7                   |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 24.70                    | 24.80                    | 24.88                     |                        |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 24.73                    | 24.80                    | 24.90                     |                        |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.94                    | 23.87                    | 23.91                     | 24.7                   |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.93                    | 23.90                    | 24.03                     |                        |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.87                    | 23.97                    | 24.03                     |                        |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.90                    | 23.91                    | 23.93                     | 24.7                   |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 24.02                    | 24.13                    | 24.19                     |                        |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 24.06                    | 24.14                    | 24.20                     |                        |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 24.03                    | 24.13                    | 24.15                     | 24.7                   |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.81                    | 22.86                    | 22.92                     |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.88                    | 22.90                    | 23.03                     |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.88                    | 22.97                    | 23.03                     | 23.7                   |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.91                    | 22.91                    | 22.93                     |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.88                    | 23.01                    | 22.51                     |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.96                    | 23.01                    | 22.45                     | 23.7                   |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.80                    | 23.04                    | 22.53                     |                        |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.85                    | 21.91                    | 21.44                     |                        |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.94                    | 21.91                    | 21.56                     | 22.7                   |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.84                    | 22.04                    | 21.61                     |                        |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.89                    | 21.91                    | 21.47                     |                        |  |  |  |  |
| Channel         |            |         |           | 1862.5                   | 1880.0                   | 1915.0                    | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1855                     | 1880                     | 1905                      |                        |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 24.76                    | 24.72                    | 24.89                     | 25.7                   |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 24.69                    | 24.82                    | 24.87                     |                        |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 24.72                    | 24.83                    | 24.87                     |                        |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.86                    | 23.85                    | 23.90                     | 24.7                   |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.87                    | 23.89                    | 23.95                     |                        |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.88                    | 24.00                    | 24.05                     |                        |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.87                    | 23.89                    | 23.97                     | 24.7                   |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 24.12                    | 24.15                    | 24.23                     |                        |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 24.13                    | 24.16                    | 24.27                     |                        |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 24.08                    | 24.18                    | 24.25                     | 23.7                   |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.86                    | 22.85                    | 22.91                     |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.90                    | 22.90                    | 22.98                     |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.88                    | 22.97                    | 23.05                     | 23.7                   |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.88                    | 22.88                    | 22.95                     |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 23.02                    | 23.03                    | 22.59                     |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 23.05                    | 23.16                    | 22.73                     | 23.7                   |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.95                    | 23.10                    | 22.59                     |                        |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.88                    | 21.88                    | 21.51                     |                        |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.94                    | 21.92                    | 21.66                     | 22.7                   |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.90                    | 22.00                    | 21.58                     |                        |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.90                    | 21.92                    | 21.48                     |                        |  |  |  |  |
| Channel         |            |         |           | 1862.5                   | 1880.0                   | 1917.5                    | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1852.5                   | 1880                     | 1907.5                    |                        |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 24.73                    | 24.75                    | 24.88                     | 25.7                   |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 24.78                    | 24.89                    | 24.89                     |                        |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 24.79                    | 24.88                    | 24.90                     |                        |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.83                    | 23.85                    | 24.00                     | 24.7                   |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.91                    | 23.94                    | 24.02                     |                        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.88                    | 23.93                    | 24.03                     |                        |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.85                    | 23.87                    | 24.01                     | 24.7                   |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 24.07                    | 24.08                    | 24.20                     |                        |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 24.05                    | 24.15                    | 24.20                     |                        |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 24.08                    | 24.24                    | 24.21                     | 24.7                   |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.87                    | 22.89                    | 23.00                     |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.92                    | 23.01                    | 23.08                     |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.86                    | 22.96                    | 23.04                     | 23.7                   |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.86                    | 22.90                    | 23.04                     |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 23.04                    | 23.07                    | 22.61                     |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 23.00                    | 23.13                    | 22.65                     | 23.7                   |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 23.02                    | 23.12                    | 22.49                     |                        |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.92                    | 21.92                    | 21.62                     |                        |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.95                    | 22.04                    | 21.63                     | 22.7                   |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.93                    | 22.00                    | 21.53                     |                        |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.90                    | 21.90                    | 21.49                     |                        |  |  |  |  |
| Channel         |            |         |           | 1861.5                   | 1880.0                   | 1918.5                    | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1851.5                   | 1880                     | 1908.5                    |                        |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 24.74                    | 24.77                    | 24.88                     | 25.7                   |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 24.84                    | 24.91                    | 24.96                     |                        |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 24.77                    | 24.88                    | 24.95                     |                        |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.85                    | 23.88                    | 23.98                     | 24.7                   |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.86                    | 23.95                    | 24.02                     |                        |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.89                    | 23.95                    | 24.01                     |                        |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.88                    | 23.89                    | 24.02                     | 24.7                   |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 24.05                    | 24.07                    | 24.19                     |                        |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 24.10                    | 24.22                    | 24.26                     |                        |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 24.04                    | 24.22                    | 24.25                     | 24.7                   |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.91                    | 22.94                    | 23.06                     |                        |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.93                    | 23.01                    | 23.12                     |                        |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.91                    | 23.02                    | 23.06                     | 23.7                   |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.86                    | 22.92                    | 23.05                     |                        |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 23.01                    | 22.99                    | 22.62                     |                        |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 23.11                    | 23.20                    | 22.62                     | 23.7                   |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 23.05                    | 23.14                    | 22.49                     |                        |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.89                    | 21.90                    | 21.55                     |                        |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.93                    | 22.02                    | 21.56                     | 22.7                   |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.94                    | 21.99                    | 21.50                     |                        |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.90                    | 21.90                    | 21.50                     |                        |  |  |  |  |
| Channel         |            |         |           | 1860.7                   | 1880.0                   | 1919.3                    | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1850.7                   | 1880                     | 1909.3                    |                        |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.71                    | 24.79                    | 24.80                     | 25.7                   |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.80                    | 24.85                    | 24.88                     |                        |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.73                    | 24.80                    | 24.84                     |                        |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.74                    | 24.83                    | 24.86                     | 24.7                   |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.77                    | 24.86                    | 24.89                     |                        |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.75                    | 24.80                    | 24.87                     |                        |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.79                    | 23.88                    | 23.94                     | 24.7                   |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 24.02                    | 24.14                    | 24.17                     |                        |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 24.07                    | 24.19                    | 24.22                     |                        |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 24.02                    | 24.10                    | 24.13                     | 24.7                   |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.81                    | 23.88                    | 23.90                     |                        |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.87                    | 23.96                    | 23.98                     |                        |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.82                    | 23.86                    | 23.93                     | 23.7                   |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.84                    | 22.93                    | 23.02                     |                        |  |  |  |  |
| 1.4             | 16QAM      | 6       | 1         | 22.91                    | 23.01                    | 23.04                     |                        |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 23.02                    | 23.08                    | 22.49                     | 23.7                   |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.97                    | 23.03                    | 22.43                     |                        |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.93                    | 23.01                    | 22.46                     |                        |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.97                    | 23.06                    | 22.52                     | 23.7                   |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.93                    | 23.02                    | 22.49                     |                        |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 22.86                    | 22.98                    | 22.45                     |                        |  |  |  |  |



| Band 4          |            |         |           |                 |                 |                 |                     |                     |  |  |  |
|-----------------|------------|---------|-----------|-----------------|-----------------|-----------------|---------------------|---------------------|--|--|--|
| Ar 0            |            |         |           |                 |                 |                 |                     |                     |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low       | Power Middle    | Power High      | Tune-up limit (dBm) |                     |  |  |  |
| Channel         |            |         |           | Ch. / Freq. Ch. | Ch. / Freq. Ch. | Ch. / Freq. Ch. |                     |                     |  |  |  |
| Frequency (MHz) |            |         |           | 20250           | 20175           | 20300           |                     |                     |  |  |  |
| 20              | QPSK       | 1       | 0         | 24.64           | 24.72           | 24.85           | 25.7                |                     |  |  |  |
| 20              | QPSK       | 1       | 49        | 24.52           | 24.51           | 24.51           |                     |                     |  |  |  |
| 20              | QPSK       | 1       | 99        | 24.53           | 24.54           | 24.53           |                     |                     |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.70           | 23.72           | 23.73           | 24.7                |                     |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.72           | 23.70           | 23.74           |                     |                     |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.64           | 23.70           | 23.69           |                     |                     |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.98           | 24.04           | 23.99           | 24.7                |                     |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.85           | 23.87           | 23.88           |                     |                     |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.87           | 23.86           | 23.94           |                     |                     |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.89           | 22.71           | 22.74           | 23.7                |                     |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.73           | 22.73           | 22.77           |                     |                     |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.85           | 22.64           | 22.68           |                     |                     |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.71           | 22.73           | 22.65           | 23.7                |                     |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.84           | 22.90           | 22.89           |                     |                     |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.73           | 22.72           | 22.77           |                     |                     |  |  |  |
| 20              | 64QAM      | 1       | 99        | 22.73           | 22.64           | 22.80           | 22.7                |                     |  |  |  |
| 20              | 64QAM      | 50      | 0         | 21.70           | 21.76           | 21.77           |                     |                     |  |  |  |
| 20              | 64QAM      | 50      | 24        | 21.74           | 21.75           | 21.77           |                     |                     |  |  |  |
| 20              | 64QAM      | 50      | 50        | 21.68           | 21.64           | 21.69           | 22.7                |                     |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.76           | 21.76           | 21.70           |                     |                     |  |  |  |
| Channel         |            |         |           | 20025           | 20175           | 20325           |                     | Tune-up limit (dBm) |  |  |  |
| Frequency (MHz) |            |         |           | 1717.5          | 1732.5          | 1747.5          |                     |                     |  |  |  |
| 15              | QPSK       | 1       | 0         | 24.67           | 24.71           | 24.70           | 25.7                |                     |  |  |  |
| 15              | QPSK       | 1       | 37        | 24.52           | 24.51           | 24.57           |                     |                     |  |  |  |
| 15              | QPSK       | 1       | 74        | 24.56           | 24.55           | 24.57           |                     |                     |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.78           | 23.72           | 23.72           | 24.7                |                     |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.73           | 23.73           | 23.76           |                     |                     |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.68           | 23.67           | 23.71           |                     |                     |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.70           | 23.75           | 23.68           | 24.7                |                     |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.99           | 24.02           | 24.04           |                     |                     |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.88           | 23.87           | 23.92           |                     |                     |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.87           | 23.85           | 23.99           | 23.7                |                     |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.78           | 22.72           | 22.76           |                     |                     |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.71           | 22.73           | 22.76           |                     |                     |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.67           | 22.68           | 22.71           | 23.7                |                     |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.72           | 22.75           | 22.69           |                     |                     |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.84           | 22.92           | 22.85           |                     |                     |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.80           | 22.86           | 22.81           | 23.7                |                     |  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.76           | 22.74           | 22.80           |                     |                     |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.79           | 21.81           | 21.78           |                     |                     |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.73           | 21.74           | 21.75           | 22.7                |                     |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.71           | 21.62           | 21.76           |                     |                     |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.71           | 21.75           | 21.67           |                     |                     |  |  |  |
| Channel         |            |         |           | 20000           | 20175           | 20350           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1715            | 1732.5          | 1750            |                     |                     |  |  |  |
| 10              | QPSK       | 1       | 0         | 24.59           | 24.65           | 24.66           | 25.7                |                     |  |  |  |
| 10              | QPSK       | 1       | 25        | 24.57           | 24.57           | 24.71           |                     |                     |  |  |  |
| 10              | QPSK       | 1       | 49        | 24.60           | 24.62           | 24.66           |                     |                     |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.72           | 23.69           | 23.70           | 24.7                |                     |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.72           | 23.78           | 23.75           |                     |                     |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.75           | 23.77           | 23.81           |                     |                     |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.75           | 23.75           | 23.76           | 24.7                |                     |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.98           | 24.02           | 24.06           |                     |                     |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.87           | 24.02           | 24.03           |                     |                     |  |  |  |
| 10              | 16QAM      | 1       | 49        | 24.00           | 23.98           | 24.05           | 24.7                |                     |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.72           | 22.67           | 22.73           |                     |                     |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.76           | 22.79           | 22.77           |                     |                     |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.74           | 22.72           | 22.78           | 23.7                |                     |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.75           | 22.77           | 22.74           |                     |                     |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.70           | 22.83           | 22.80           |                     |                     |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.86           | 22.80           | 22.98           | 24.7                |                     |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.91           | 22.65           | 22.95           |                     |                     |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.70           | 21.70           | 21.74           |                     |                     |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.77           | 21.74           | 21.79           | 22.7                |                     |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.76           | 21.57           | 21.83           |                     |                     |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.70           | 21.74           | 21.79           |                     |                     |  |  |  |
| Channel         |            |         |           | 19975           | 20175           | 20375           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1712.5          | 1732.5          | 1752.5          |                     |                     |  |  |  |
| 5               | QPSK       | 1       | 0         | 24.63           | 24.62           | 24.67           | 25.7                |                     |  |  |  |
| 5               | QPSK       | 1       | 12        | 24.69           | 24.67           | 24.71           |                     |                     |  |  |  |
| 5               | QPSK       | 1       | 24        | 24.66           | 24.69           | 24.71           |                     |                     |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.71           | 23.69           | 23.75           | 24.7                |                     |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.75           | 23.77           | 23.80           |                     |                     |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.72           | 23.76           | 23.77           |                     |                     |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.70           | 23.73           | 23.77           | 24.7                |                     |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.97           | 23.92           | 24.05           |                     |                     |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.98           | 24.00           | 24.04           |                     |                     |  |  |  |
| 5               | 16QAM      | 1       | 24        | 24.01           | 23.99           | 24.03           | 23.7                |                     |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.75           | 22.69           | 22.82           |                     |                     |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.79           | 22.80           | 22.85           |                     |                     |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.78           | 22.80           | 22.80           | 23.7                |                     |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.74           | 22.76           | 22.79           |                     |                     |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.72           | 22.87           | 22.99           |                     |                     |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.82           | 22.74           | 22.96           | 23.7                |                     |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.98           | 22.61           | 22.95           |                     |                     |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.77           | 21.72           | 21.85           |                     |                     |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.84           | 21.77           | 21.90           | 22.7                |                     |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.78           | 21.62           | 21.84           |                     |                     |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.74           | 21.65           | 21.82           |                     |                     |  |  |  |
| Channel         |            |         |           | 19950           | 20175           | 20395           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1711.5          | 1732.5          | 1753.5          |                     |                     |  |  |  |
| 3               | QPSK       | 1       | 0         | 24.64           | 24.60           | 24.69           | 25.7                |                     |  |  |  |
| 3               | QPSK       | 1       | 8         | 24.71           | 24.71           | 24.71           |                     |                     |  |  |  |
| 3               | QPSK       | 1       | 14        | 24.65           | 24.69           | 24.67           |                     |                     |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.71           | 23.66           | 23.79           | 24.7                |                     |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.75           | 23.75           | 23.77           |                     |                     |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.74           | 23.76           | 23.74           |                     |                     |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.74           | 23.73           | 23.78           | 24.7                |                     |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.99           | 23.92           | 23.98           |                     |                     |  |  |  |
| 3               | 16QAM      | 1       | 8         | 24.05           | 24.07           | 24.10           |                     |                     |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.98           | 23.97           | 24.05           | 23.7                |                     |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.79           | 22.75           | 22.82           |                     |                     |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.84           | 22.84           | 22.90           |                     |                     |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.81           | 22.79           | 22.83           | 23.7                |                     |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.80           | 22.74           | 22.78           |                     |                     |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.75           | 22.84           | 22.95           |                     |                     |  |  |  |
| 3               | 64QAM      | 1       | 8         | 23.00           | 22.81           | 23.01           | 23.7                |                     |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.97           | 22.69           | 22.98           |                     |                     |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.73           | 21.73           | 21.85           |                     |                     |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.84           | 21.72           | 21.86           | 22.7                |                     |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.83           | 21.64           | 21.83           |                     |                     |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.74           | 21.70           | 21.78           |                     |                     |  |  |  |
| Channel         |            |         |           | 19957           | 20175           | 20393           | Tune-up limit (dBm) |                     |  |  |  |
| Frequency (MHz) |            |         |           | 1710.7          | 1732.5          | 1754.3          |                     |                     |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.54           | 24.59           | 24.58           | 25.7                |                     |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.63           | 24.63           | 24.66           |                     |                     |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.54           | 24.61           | 24.60           |                     |                     |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.59           | 24.60           | 24.67           | 24.7                |                     |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.65           | 24.64           | 24.71           |                     |                     |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.63           | 24.59           | 24.63           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.89           | 23.90           | 23.94           | 24.7                |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.98           | 23.97           | 24.00           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.89           | 23.89           | 23.95           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.76           | 23.73           | 23.80           | 23.7                |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.67           | 23.68           | 23.71           |                     |                     |  |  |  |
| 1.4             | 16QAM      | 3       | 5         | 23.71           | 23.72           | 23.78           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.81           | 22.75           | 22.78           | 23.7                |                     |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.79           | 22.65           | 22.82           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.69           | 22.75           | 22.85           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.83           | 22.84           | 22.91           | 23.7                |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.79           | 22.70           | 22.86           |                     |                     |  |  |  |
| 1.4             | 64QAM      | 3       | 5         | 22.85           | 22.63           | 22.88           |                     |                     |  |  |  |

| Band 5          |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ar 1            |            |         |           |                       |                          |                        |                     |
| Band            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 825                   | 836.5                    | 848                    |                     |
| Frequency (MHz) |            |         |           | 23.31                 | 23.29                    | 23.32                  |                     |
| 10              | QPSK       | 1       | 0         | 23.31                 | 23.29                    | 23.32                  | 25                  |
| 10              | QPSK       | 1       | 25        | 23.24                 | 23.28                    | 23.20                  |                     |
| 10              | QPSK       | 1       | 49        | 23.30                 | 23.23                    | 23.18                  |                     |
| 10              | QPSK       | 25      | 0         | 23.31                 | 23.38                    | 23.33                  | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.42                 | 23.37                    | 23.43                  |                     |
| 10              | QPSK       | 25      | 25        | 23.38                 | 23.40                    | 23.37                  |                     |
| 10              | QPSK       | 50      | 0         | 23.42                 | 23.36                    | 23.29                  | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.71                 | 23.66                    | 23.70                  |                     |
| 10              | 16QAM      | 1       | 25        | 23.61                 | 23.66                    | 23.63                  |                     |
| 10              | 16QAM      | 1       | 49        | 23.65                 | 23.61                    | 23.49                  | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.85                 | 22.87                    | 22.84                  |                     |
| 10              | 16QAM      | 25      | 12        | 22.96                 | 22.88                    | 22.97                  |                     |
| 10              | 16QAM      | 25      | 25        | 22.89                 | 22.92                    | 22.82                  | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.95                 | 22.89                    | 22.84                  |                     |
| 10              | 64QAM      | 1       | 0         | 23.02                 | 23.01                    | 23.00                  | 22.7                |
| 10              | 64QAM      | 1       | 25        | 23.03                 | 22.88                    | 22.71                  |                     |
| 10              | 64QAM      | 1       | 49        | 23.01                 | 22.73                    | 21.99                  |                     |
| 10              | 64QAM      | 25      | 0         | 21.90                 | 21.94                    | 21.88                  | 22.7                |
| 10              | 64QAM      | 25      | 12        | 22.00                 | 21.90                    | 21.70                  |                     |
| 10              | 64QAM      | 25      | 25        | 21.94                 | 21.90                    | 21.02                  |                     |
| 10              | 64QAM      | 50      | 0         | 21.99                 | 21.90                    | 21.55                  |                     |
| Channel         |            |         |           | 204.25                | 205.25                   | 206.25                 |                     |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |
| 5               | QPSK       | 1       | 0         | 23.24                 | 23.23                    | 23.32                  | 25                  |
| 5               | QPSK       | 1       | 12        | 23.15                 | 23.25                    | 23.13                  |                     |
| 5               | QPSK       | 1       | 24        | 23.27                 | 23.13                    | 23.18                  |                     |
| 5               | QPSK       | 12      | 0         | 23.27                 | 23.33                    | 23.29                  | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.34                 | 23.31                    | 23.43                  |                     |
| 5               | QPSK       | 12      | 13        | 23.37                 | 23.36                    | 23.29                  |                     |
| 5               | QPSK       | 25      | 0         | 23.32                 | 23.36                    | 23.29                  | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.62                 | 23.57                    | 23.69                  |                     |
| 5               | 16QAM      | 1       | 12        | 23.58                 | 23.61                    | 23.60                  |                     |
| 5               | 16QAM      | 1       | 24        | 23.55                 | 23.54                    | 23.44                  | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.76                 | 22.77                    | 22.83                  |                     |
| 5               | 16QAM      | 12      | 7         | 22.88                 | 22.83                    | 22.87                  |                     |
| 5               | 16QAM      | 12      | 13        | 22.82                 | 22.90                    | 22.81                  | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.90                 | 22.87                    | 22.81                  |                     |
| 5               | 64QAM      | 1       | 0         | 22.86                 | 22.96                    | 22.86                  |                     |
| 5               | 64QAM      | 1       | 12        | 23.03                 | 22.82                    | 22.70                  | 22.7                |
| 5               | 64QAM      | 1       | 24        | 22.91                 | 22.68                    | 21.95                  |                     |
| 5               | 64QAM      | 12      | 0         | 21.86                 | 21.92                    | 21.79                  |                     |
| 5               | 64QAM      | 12      | 7         | 21.95                 | 21.82                    | 21.67                  | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.82                 | 21.93                    | 21.02                  |                     |
| 5               | 64QAM      | 25      | 0         | 21.96                 | 21.89                    | 21.54                  |                     |
| Channel         |            |         |           | 204.15                | 205.25                   | 206.35                 |                     |
| Frequency (MHz) |            |         |           | 825.5                 | 836.5                    | 847.5                  |                     |
| 3               | QPSK       | 1       | 0         | 23.28                 | 23.21                    | 23.28                  | 25                  |
| 3               | QPSK       | 1       | 8         | 23.24                 | 23.21                    | 23.11                  |                     |
| 3               | QPSK       | 1       | 14        | 23.30                 | 23.13                    | 23.11                  |                     |
| 3               | QPSK       | 8       | 0         | 23.24                 | 23.37                    | 23.25                  | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.39                 | 23.37                    | 23.39                  |                     |
| 3               | QPSK       | 8       | 7         | 23.29                 | 23.34                    | 23.34                  |                     |
| 3               | QPSK       | 15      | 0         | 23.41                 | 23.33                    | 23.24                  | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.65                 | 23.57                    | 23.68                  |                     |
| 3               | 16QAM      | 1       | 8         | 23.51                 | 23.59                    | 23.53                  |                     |
| 3               | 16QAM      | 1       | 14        | 23.62                 | 23.55                    | 23.39                  | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.83                 | 22.79                    | 22.77                  |                     |
| 3               | 16QAM      | 8       | 4         | 22.86                 | 22.79                    | 22.95                  |                     |
| 3               | 16QAM      | 8       | 7         | 22.80                 | 22.87                    | 22.73                  | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.91                 | 22.89                    | 22.80                  |                     |
| 3               | 64QAM      | 1       | 0         | 22.93                 | 22.91                    | 22.89                  |                     |
| 3               | 64QAM      | 1       | 8         | 22.94                 | 22.78                    | 22.84                  | 22.7                |
| 3               | 64QAM      | 1       | 14        | 23.01                 | 22.71                    | 21.93                  |                     |
| 3               | 64QAM      | 8       | 0         | 21.82                 | 21.91                    | 21.86                  |                     |
| 3               | 64QAM      | 8       | 4         | 22.00                 | 21.82                    | 21.70                  | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.89                 | 21.88                    | 21.01                  |                     |
| 3               | 64QAM      | 15      | 0         | 21.95                 | 21.82                    | 21.54                  |                     |
| Channel         |            |         |           | 204.07                | 205.25                   | 206.43                 |                     |
| Frequency (MHz) |            |         |           | 824.7                 | 836.5                    | 848.3                  |                     |
| 1.4             | QPSK       | 1       | 0         | 23.31                 | 23.25                    | 23.22                  | 25                  |
| 1.4             | QPSK       | 1       | 3         | 23.19                 | 23.24                    | 23.16                  |                     |
| 1.4             | QPSK       | 1       | 5         | 23.29                 | 23.20                    | 23.16                  |                     |
| 1.4             | QPSK       | 3       | 0         | 23.27                 | 23.32                    | 23.28                  | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 23.35                 | 23.31                    | 23.36                  |                     |
| 1.4             | QPSK       | 3       | 3         | 23.30                 | 23.32                    | 23.30                  |                     |
| 1.4             | QPSK       | 6       | 0         | 23.41                 | 23.33                    | 23.19                  | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.66                 | 23.61                    | 23.63                  |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.58                 | 23.60                    | 23.57                  |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.57                 | 23.61                    | 23.47                  | 23.7                |
| 1.4             | 16QAM      | 3       | 0         | 22.86                 | 22.86                    | 22.78                  |                     |
| 1.4             | 16QAM      | 3       | 1         | 22.95                 | 22.85                    | 22.97                  |                     |
| 1.4             | 16QAM      | 3       | 3         | 22.84                 | 22.86                    | 22.74                  | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.92                 | 22.89                    | 22.81                  |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.98                 | 22.94                    | 22.92                  |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.95                 | 22.81                    | 22.67                  | 22.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.94                 | 22.72                    | 21.95                  |                     |
| 1.4             | 64QAM      | 3       | 0         | 21.85                 | 21.84                    | 21.78                  |                     |
| 1.4             | 64QAM      | 3       | 1         | 21.97                 | 21.84                    | 21.77                  | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 21.85                 | 21.84                    | 21.72                  |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.94                 | 21.87                    | 21.45                  |                     |

| Band 7          |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| AR 0            |            |         |           |                     |                        |                      |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. | Power Middle Ch. Freq. | Power High Ch. Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850               | 21100                  | 21350                |                     |
| Frequency (MHz) |            |         |           | 2510                | 2535                   | 2560                 |                     |
| 20              | QPSK       | 1       | 0         | 24.06               | 24.10                  | 24.04                | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.12               | 24.13                  | 24.01                |                     |
| 20              | QPSK       | 1       | 99        | 24.25               | 24.24                  | 24.05                |                     |
| 20              | QPSK       | 50      | 0         | 23.18               | 23.18                  | 23.17                | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.32               | 23.19                  | 23.21                |                     |
| 20              | QPSK       | 50      | 50        | 23.33               | 23.31                  | 23.22                |                     |
| 20              | QPSK       | 100     | 0         | 23.28               | 23.17                  | 23.18                | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.42               | 23.44                  | 23.38                |                     |
| 20              | 16QAM      | 1       | 49        | 23.49               | 23.48                  | 23.36                |                     |
| 20              | 16QAM      | 1       | 99        | 23.53               | 23.52                  | 23.36                | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.17               | 22.18                  | 22.20                |                     |
| 20              | 16QAM      | 50      | 24        | 22.31               | 22.21                  | 22.20                |                     |
| 20              | 16QAM      | 50      | 50        | 22.31               | 22.32                  | 22.18                | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.26               | 22.20                  | 22.18                |                     |
| 20              | 64QAM      | 1       | 0         | 22.25               | 22.25                  | 22.30                | 23.7                |
| 20              | 64QAM      | 1       | 49        | 22.37               | 22.40                  | 22.27                |                     |
| 20              | 64QAM      | 1       | 99        | 22.39               | 22.42                  | 22.33                |                     |
| 20              | 64QAM      | 50      | 0         | 21.20               | 21.21                  | 21.22                | 22.7                |
| 20              | 64QAM      | 50      | 24        | 21.31               | 21.24                  | 21.24                |                     |
| 20              | 64QAM      | 50      | 50        | 21.32               | 21.32                  | 21.20                |                     |
| 20              | 64QAM      | 100     | 0         | 21.30               | 21.21                  | 21.18                | Tune-up limit (dBm) |
| Channel         |            |         |           | 20925               | 21100                  | 21375                |                     |
| Frequency (MHz) |            |         |           | 2507.5              | 2535                   | 2562.5               |                     |
| 15              | QPSK       | 1       | 0         | 24.14               | 24.13                  | 24.09                | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.16               | 24.15                  | 24.05                |                     |
| 15              | QPSK       | 1       | 74        | 24.21               | 24.23                  | 24.09                |                     |
| 15              | QPSK       | 36      | 0         | 23.24               | 23.21                  | 23.19                | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.34               | 23.26                  | 23.23                |                     |
| 15              | QPSK       | 36      | 39        | 23.32               | 23.33                  | 23.20                |                     |
| 15              | QPSK       | 75      | 0         | 23.28               | 23.24                  | 23.20                | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.44               | 23.47                  | 23.39                |                     |
| 15              | 16QAM      | 1       | 37        | 23.51               | 23.53                  | 23.37                |                     |
| 15              | 16QAM      | 1       | 74        | 23.55               | 23.56                  | 23.41                | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.27               | 22.21                  | 22.19                |                     |
| 15              | 16QAM      | 36      | 20        | 22.31               | 22.23                  | 22.20                |                     |
| 15              | 16QAM      | 36      | 39        | 22.29               | 22.33                  | 22.17                | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.30               | 22.22                  | 22.18                |                     |
| 15              | 64QAM      | 1       | 0         | 22.40               | 22.30                  | 22.36                |                     |
| 15              | 64QAM      | 1       | 37        | 22.41               | 22.43                  | 22.28                | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.45               | 22.41                  | 22.30                |                     |
| 15              | 64QAM      | 36      | 0         | 21.30               | 21.25                  | 21.23                |                     |
| 15              | 64QAM      | 36      | 20        | 21.33               | 21.27                  | 21.23                | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.39               | 21.36                  | 21.24                |                     |
| 15              | 64QAM      | 75      | 0         | 21.30               | 21.22                  | 21.21                |                     |
| Channel         |            |         |           | 20900               | 21100                  | 21400                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505                | 2535                   | 2565                 |                     |
| 10              | QPSK       | 1       | 0         | 24.13               | 24.09                  | 24.00                | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.11               | 24.11                  | 23.99                |                     |
| 10              | QPSK       | 1       | 49        | 24.16               | 24.19                  | 24.02                |                     |
| 10              | QPSK       | 25      | 0         | 23.26               | 23.23                  | 23.16                | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.31               | 23.24                  | 23.20                |                     |
| 10              | QPSK       | 25      | 25        | 23.31               | 23.31                  | 23.16                |                     |
| 10              | QPSK       | 50      | 0         | 23.30               | 23.24                  | 23.17                | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.50               | 23.46                  | 23.39                |                     |
| 10              | 16QAM      | 1       | 25        | 23.50               | 23.52                  | 23.37                |                     |
| 10              | 16QAM      | 1       | 49        | 23.53               | 23.56                  | 23.41                | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.27               | 22.18                  | 22.14                |                     |
| 10              | 16QAM      | 25      | 12        | 22.30               | 22.24                  | 22.17                |                     |
| 10              | 16QAM      | 25      | 25        | 22.28               | 22.30                  | 22.15                | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.28               | 22.23                  | 22.18                |                     |
| 10              | 64QAM      | 1       | 0         | 22.40               | 22.33                  | 22.33                |                     |
| 10              | 64QAM      | 1       | 25        | 22.43               | 22.43                  | 22.30                | 22.7                |
| 10              | 64QAM      | 1       | 49        | 22.43               | 22.45                  | 22.28                |                     |
| 10              | 64QAM      | 25      | 0         | 21.29               | 21.25                  | 21.18                |                     |
| 10              | 64QAM      | 25      | 12        | 21.34               | 21.29                  | 21.23                | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.35               | 21.33                  | 21.20                |                     |
| 10              | 64QAM      | 50      | 0         | 21.34               | 21.28                  | 21.23                |                     |
| Channel         |            |         |           | 20775               | 21100                  | 21425                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5              | 2535                   | 2567.5               |                     |
| 5               | QPSK       | 1       | 0         | 24.14               | 24.10                  | 24.03                | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.18               | 24.18                  | 24.03                |                     |
| 5               | QPSK       | 1       | 24        | 24.17               | 24.17                  | 24.02                |                     |
| 5               | QPSK       | 12      | 0         | 23.27               | 23.25                  | 23.12                | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.29               | 23.21                  | 23.10                |                     |
| 5               | QPSK       | 12      | 13        | 23.27               | 23.31                  | 23.15                |                     |
| 5               | QPSK       | 25      | 0         | 23.28               | 23.23                  | 23.13                | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.48               | 23.45                  | 23.34                |                     |
| 5               | 16QAM      | 1       | 12        | 23.47               | 23.51                  | 23.35                |                     |
| 5               | 16QAM      | 1       | 24        | 23.54               | 23.50                  | 23.40                | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.29               | 22.25                  | 22.17                |                     |
| 5               | 16QAM      | 12      | 7         | 22.28               | 22.28                  | 22.16                |                     |
| 5               | 16QAM      | 12      | 13        | 22.31               | 22.30                  | 22.13                | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.27               | 22.23                  | 22.15                |                     |
| 5               | 64QAM      | 1       | 0         | 22.42               | 22.38                  | 22.29                |                     |
| 5               | 64QAM      | 1       | 12        | 22.40               | 22.44                  | 22.26                | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.44               | 22.43                  | 22.28                |                     |
| 5               | 64QAM      | 12      | 0         | 21.35               | 21.30                  | 21.20                |                     |
| 5               | 64QAM      | 12      | 7         | 21.38               | 21.28                  | 21.18                | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.36               | 21.36                  | 21.23                |                     |
| 5               | 64QAM      | 25      | 0         | 21.31               | 21.25                  | 21.18                |                     |



| Band 12         |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Art 1           |            |         |           |                       |                          |                        |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 704                   | 707.5                    | 711                    |                     |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |
| 10              | QPSK       | 1       | 0         | 23.51                 | 23.46                    | 23.46                  | 25.4                |
| 10              | QPSK       | 1       | 25        | 23.43                 | 23.49                    | 23.49                  |                     |
| 10              | QPSK       | 1       | 49        | 23.54                 | 23.58                    | 23.50                  |                     |
| 10              | QPSK       | 25      | 0         | 23.59                 | 23.60                    | 23.61                  | 24.4                |
| 10              | QPSK       | 25      | 12        | 23.67                 | 23.61                    | 23.60                  |                     |
| 10              | QPSK       | 25      | 25        | 23.68                 | 23.66                    | 23.65                  |                     |
| 10              | QPSK       | 50      | 0         | 23.66                 | 23.59                    | 23.60                  | 24.4                |
| 10              | 16QAM      | 1       | 0         | 23.67                 | 23.60                    | 23.60                  |                     |
| 10              | 16QAM      | 1       | 25        | 23.66                 | 23.66                    | 23.67                  |                     |
| 10              | 16QAM      | 1       | 49        | 23.65                 | 23.69                    | 23.67                  | 23.4                |
| 10              | 16QAM      | 25      | 0         | 22.67                 | 22.72                    | 22.71                  |                     |
| 10              | 16QAM      | 25      | 12        | 22.78                 | 22.72                    | 22.70                  |                     |
| 10              | 16QAM      | 25      | 25        | 22.71                 | 22.77                    | 22.76                  | 23.4                |
| 10              | 16QAM      | 50      | 0         | 22.75                 | 22.69                    | 22.69                  |                     |
| 10              | 64QAM      | 1       | 0         | 22.63                 | 22.76                    | 22.85                  | 22.4                |
| 10              | 64QAM      | 1       | 25        | 22.67                 | 22.92                    | 22.73                  |                     |
| 10              | 64QAM      | 1       | 49        | 22.99                 | 22.93                    | 22.87                  |                     |
| 10              | 64QAM      | 25      | 0         | 21.66                 | 21.73                    | 21.74                  | 22.4                |
| 10              | 64QAM      | 25      | 12        | 21.71                 | 21.76                    | 21.73                  |                     |
| 10              | 64QAM      | 25      | 25        | 21.77                 | 21.78                    | 21.78                  |                     |
| 10              | 64QAM      | 50      | 0         | 21.74                 | 21.72                    | 21.72                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 707.5                 | 707.5                    | 713.5                  |                     |
| Frequency (MHz) |            |         |           | 707.5                 | 707.5                    | 713.5                  |                     |
| 5               | QPSK       | 1       | 0         | 23.51                 | 23.47                    | 23.47                  | 25.4                |
| 5               | QPSK       | 1       | 12        | 23.46                 | 23.58                    | 23.57                  |                     |
| 5               | QPSK       | 1       | 24        | 23.48                 | 23.54                    | 23.50                  |                     |
| 5               | QPSK       | 12      | 0         | 23.62                 | 23.59                    | 23.60                  | 24.4                |
| 5               | QPSK       | 12      | 7         | 23.60                 | 23.56                    | 23.65                  |                     |
| 5               | QPSK       | 12      | 13        | 23.58                 | 23.61                    | 23.58                  |                     |
| 5               | QPSK       | 25      | 0         | 23.61                 | 23.58                    | 23.57                  | 24.4                |
| 5               | 16QAM      | 1       | 0         | 23.64                 | 23.63                    | 23.60                  |                     |
| 5               | 16QAM      | 1       | 12        | 23.62                 | 23.63                    | 23.63                  |                     |
| 5               | 16QAM      | 1       | 24        | 23.65                 | 23.66                    | 23.65                  | 23.4                |
| 5               | 16QAM      | 12      | 0         | 22.77                 | 22.77                    | 22.73                  |                     |
| 5               | 16QAM      | 12      | 7         | 22.72                 | 22.72                    | 22.78                  |                     |
| 5               | 16QAM      | 12      | 13        | 22.71                 | 22.71                    | 22.73                  | 23.4                |
| 5               | 16QAM      | 25      | 0         | 22.74                 | 22.70                    | 22.67                  |                     |
| 5               | 64QAM      | 1       | 0         | 22.67                 | 22.76                    | 22.80                  | 22.4                |
| 5               | 64QAM      | 1       | 12        | 22.78                 | 22.90                    | 22.90                  |                     |
| 5               | 64QAM      | 1       | 24        | 22.77                 | 22.88                    | 22.85                  |                     |
| 5               | 64QAM      | 12      | 0         | 21.60                 | 21.80                    | 21.81                  | 22.4                |
| 5               | 64QAM      | 12      | 7         | 21.75                 | 21.74                    | 21.80                  |                     |
| 5               | 64QAM      | 12      | 13        | 21.74                 | 21.80                    | 21.77                  |                     |
| 5               | 64QAM      | 25      | 0         | 21.75                 | 21.70                    | 21.73                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 707.5                 | 707.5                    | 714.5                  |                     |
| Frequency (MHz) |            |         |           | 707.5                 | 707.5                    | 714.5                  |                     |
| 3               | QPSK       | 1       | 0         | 23.59                 | 23.52                    | 23.52                  | 25.4                |
| 3               | QPSK       | 1       | 8         | 23.57                 | 23.59                    | 23.54                  |                     |
| 3               | QPSK       | 1       | 14        | 23.48                 | 23.54                    | 23.50                  |                     |
| 3               | QPSK       | 8       | 0         | 23.61                 | 23.59                    | 23.56                  | 24.4                |
| 3               | QPSK       | 8       | 4         | 23.60                 | 23.58                    | 23.67                  |                     |
| 3               | QPSK       | 8       | 7         | 23.53                 | 23.63                    | 23.59                  |                     |
| 3               | QPSK       | 15      | 0         | 23.60                 | 23.58                    | 23.59                  | 24.4                |
| 3               | 16QAM      | 1       | 0         | 23.92                 | 23.85                    | 23.89                  |                     |
| 3               | 16QAM      | 1       | 8         | 23.89                 | 23.90                    | 23.92                  |                     |
| 3               | 16QAM      | 1       | 14        | 23.79                 | 23.87                    | 23.91                  | 23.4                |
| 3               | 16QAM      | 8       | 0         | 22.78                 | 22.77                    | 22.74                  |                     |
| 3               | 16QAM      | 8       | 4         | 22.75                 | 22.76                    | 22.81                  |                     |
| 3               | 16QAM      | 8       | 7         | 22.70                 | 22.78                    | 22.76                  | 23.4                |
| 3               | 16QAM      | 15      | 0         | 22.75                 | 22.70                    | 22.71                  |                     |
| 3               | 64QAM      | 1       | 0         | 22.62                 | 22.67                    | 22.85                  |                     |
| 3               | 64QAM      | 1       | 8         | 22.96                 | 22.92                    | 22.94                  | 22.4                |
| 3               | 64QAM      | 1       | 14        | 22.75                 | 22.90                    | 22.82                  |                     |
| 3               | 64QAM      | 8       | 0         | 21.62                 | 21.75                    | 21.77                  |                     |
| 3               | 64QAM      | 8       | 4         | 21.70                 | 21.74                    | 21.81                  | 22.4                |
| 3               | 64QAM      | 8       | 7         | 21.74                 | 21.75                    | 21.72                  |                     |
| 3               | 64QAM      | 15      | 0         | 21.60                 | 21.70                    | 21.70                  |                     |
| Channel         |            |         |           | 699.7                 | 707.5                    | 715.3                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 699.7                 | 707.5                    | 715.3                  |                     |
| 1.4             | QPSK       | 1       | 0         | 23.46                 | 23.42                    | 23.44                  | 25.4                |
| 1.4             | QPSK       | 1       | 3         | 23.49                 | 23.50                    | 23.49                  |                     |
| 1.4             | QPSK       | 1       | 5         | 23.40                 | 23.41                    | 23.40                  |                     |
| 1.4             | QPSK       | 3       | 0         | 23.47                 | 23.45                    | 23.44                  | 24.4                |
| 1.4             | QPSK       | 3       | 1         | 23.51                 | 23.47                    | 23.45                  |                     |
| 1.4             | QPSK       | 3       | 3         | 23.45                 | 23.45                    | 23.44                  |                     |
| 1.4             | QPSK       | 6       | 0         | 23.50                 | 23.57                    | 23.49                  | 24.4                |
| 1.4             | 16QAM      | 1       | 0         | 23.78                 | 23.73                    | 23.75                  |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.82                 | 23.86                    | 23.81                  |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.71                 | 23.78                    | 23.73                  | 23.4                |
| 1.4             | 16QAM      | 3       | 0         | 23.57                 | 23.53                    | 23.50                  |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.61                 | 23.57                    | 23.57                  |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.51                 | 23.54                    | 23.48                  | 23.4                |
| 1.4             | 16QAM      | 6       | 0         | 22.68                 | 22.70                    | 22.65                  |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.59                 | 22.73                    | 22.77                  |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.71                 | 22.65                    | 22.61                  | 23.4                |
| 1.4             | 64QAM      | 1       | 5         | 22.70                 | 22.79                    | 22.75                  |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.58                 | 22.73                    | 22.73                  |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.64                 | 22.78                    | 22.80                  | 22.4                |
| 1.4             | 64QAM      | 3       | 3         | 22.63                 | 22.75                    | 22.74                  |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.48                 | 21.67                    | 21.63                  |                     |



| Band 13         |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Alt 1           |            |         |           |                       |                          |                        |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 23230                 |                          |                        |                     |
| Frequency (MHz) |            |         |           | 782                   |                          |                        |                     |
| 10              | QPSK       | 1       | 0         |                       | 23.24                    |                        | 25.2                |
| 10              | QPSK       | 1       | 25        |                       | 23.22                    |                        |                     |
| 10              | QPSK       | 1       | 49        |                       | 23.31                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 23.11                    |                        | 24.2                |
| 10              | QPSK       | 25      | 12        |                       | 23.20                    |                        |                     |
| 10              | QPSK       | 25      | 25        |                       | 23.15                    |                        |                     |
| 10              | QPSK       | 50      | 0         |                       | 23.52                    |                        | 24.2                |
| 10              | 16QAM      | 1       | 0         |                       | 23.69                    |                        |                     |
| 10              | 16QAM      | 1       | 25        |                       | 23.66                    |                        |                     |
| 10              | 16QAM      | 1       | 49        |                       | 23.68                    |                        | 23.2                |
| 10              | 16QAM      | 25      | 0         |                       | 22.43                    |                        |                     |
| 10              | 16QAM      | 25      | 12        |                       | 22.50                    |                        |                     |
| 10              | 16QAM      | 25      | 25        |                       | 22.46                    |                        | 23.2                |
| 10              | 16QAM      | 50      | 0         |                       | 22.53                    |                        |                     |
| 10              | 64QAM      | 1       | 0         |                       | 22.60                    |                        | 23.2                |
| 10              | 64QAM      | 1       | 25        |                       | 22.59                    |                        |                     |
| 10              | 64QAM      | 1       | 49        |                       | 22.63                    |                        |                     |
| 10              | 64QAM      | 25      | 0         |                       | 21.46                    |                        | 22.2                |
| 10              | 64QAM      | 25      | 12        |                       | 21.56                    |                        |                     |
| 10              | 64QAM      | 25      | 25        |                       | 21.46                    |                        |                     |
| 10              | 64QAM      | 50      | 0         |                       | 21.57                    |                        |                     |
| Channel         |            |         |           | 23205                 | 23230                    | 23255                  | Tune-Up limit (dBm) |
| Frequency (MHz) |            |         |           | 779.5                 | 782                      | 784.5                  |                     |
| 5               | QPSK       | 1       | 0         | 23.52                 | 23.51                    | 23.52                  | 25.2                |
| 5               | QPSK       | 1       | 12        | 23.57                 | 23.53                    | 23.53                  |                     |
| 5               | QPSK       | 1       | 24        | 23.57                 | 23.52                    | 23.60                  |                     |
| 5               | QPSK       | 12      | 0         | 23.43                 | 23.42                    | 23.40                  | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.50                 | 23.48                    | 23.49                  |                     |
| 5               | QPSK       | 12      | 13        | 23.48                 | 23.46                    | 23.47                  |                     |
| 5               | QPSK       | 25      | 0         | 23.50                 | 23.44                    | 23.43                  | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.59                 | 23.61                    | 23.58                  |                     |
| 5               | 16QAM      | 1       | 12        | 23.57                 | 23.55                    | 23.54                  |                     |
| 5               | 16QAM      | 1       | 24        | 23.63                 | 23.54                    | 23.65                  | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.50                 | 22.45                    | 22.47                  |                     |
| 5               | 16QAM      | 12      | 7         | 22.52                 | 22.47                    | 22.52                  |                     |
| 5               | 16QAM      | 12      | 13        | 22.49                 | 22.49                    | 22.51                  | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.55                 | 22.49                    | 22.49                  |                     |
| 5               | 64QAM      | 1       | 0         | 22.49                 | 22.48                    | 22.44                  |                     |
| 5               | 64QAM      | 1       | 12        | 22.50                 | 22.48                    | 22.53                  | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.50                 | 22.58                    | 22.54                  |                     |
| 5               | 64QAM      | 12      | 0         | 21.58                 | 21.50                    | 21.50                  |                     |
| 5               | 64QAM      | 12      | 7         | 21.57                 | 21.55                    | 21.53                  | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.57                 | 21.52                    | 21.53                  |                     |
| 5               | 64QAM      | 25      | 0         | 21.55                 | 21.52                    | 21.50                  |                     |

| Band 14         |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Alt 1           |            |         |           |                       |                          |                        |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 23330                 |                          |                        |                     |
| Frequency (MHz) |            |         |           | 793                   |                          |                        |                     |
| 10              | QPSK       | 1       | 0         |                       | 23.64                    |                        | 25.4                |
| 10              | QPSK       | 1       | 25        |                       | 23.63                    |                        |                     |
| 10              | QPSK       | 1       | 49        |                       | 23.60                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 23.69                    |                        | 24.7                |
| 10              | QPSK       | 25      | 12        |                       | 23.68                    |                        |                     |
| 10              | QPSK       | 25      | 25        |                       | 23.73                    |                        |                     |
| 10              | QPSK       | 50      | 0         |                       | 23.68                    |                        | 24.7                |
| 10              | 16QAM      | 1       | 0         |                       | 24.12                    |                        |                     |
| 10              | 16QAM      | 1       | 25        |                       | 24.04                    |                        |                     |
| 10              | 16QAM      | 1       | 49        |                       | 23.99                    |                        | 23.7                |
| 10              | 16QAM      | 25      | 0         |                       | 22.79                    |                        |                     |
| 10              | 16QAM      | 25      | 12        |                       | 22.80                    |                        |                     |
| 10              | 16QAM      | 25      | 25        |                       | 22.83                    |                        | 23.7                |
| 10              | 16QAM      | 50      | 0         |                       | 22.80                    |                        |                     |
| 10              | 64QAM      | 1       | 0         |                       | 22.51                    |                        |                     |
| 10              | 64QAM      | 1       | 25        |                       | 22.49                    |                        | 23.7                |
| 10              | 64QAM      | 1       | 49        |                       | 22.99                    |                        |                     |
| 10              | 64QAM      | 25      | 0         |                       | 21.25                    |                        |                     |
| 10              | 64QAM      | 25      | 12        |                       | 21.23                    |                        | 22.7                |
| 10              | 64QAM      | 25      | 25        |                       | 21.56                    |                        |                     |
| 10              | 64QAM      | 50      | 0         |                       | 21.34                    |                        |                     |
| Channel         |            |         |           | 23305                 | 23330                    | 23355                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5                 | 793                      | 795.5                  |                     |
| 5               | QPSK       | 1       | 0         | 23.66                 | 23.57                    | 23.59                  | 25.4                |
| 5               | QPSK       | 1       | 12        | 23.73                 | 23.72                    | 23.67                  |                     |
| 5               | QPSK       | 1       | 24        | 23.69                 | 23.63                    | 23.61                  |                     |
| 5               | QPSK       | 12      | 0         | 23.77                 | 23.71                    | 23.70                  | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.76                 | 23.70                    | 23.76                  |                     |
| 5               | QPSK       | 12      | 13        | 23.74                 | 23.73                    | 23.70                  |                     |
| 5               | QPSK       | 25      | 0         | 23.75                 | 23.65                    | 23.63                  | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.96                 | 23.88                    | 23.90                  |                     |
| 5               | 16QAM      | 1       | 12        | 23.99                 | 23.96                    | 23.99                  |                     |
| 5               | 16QAM      | 1       | 24        | 23.95                 | 23.96                    | 23.93                  | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.88                 | 22.79                    | 22.85                  |                     |
| 5               | 16QAM      | 12      | 7         | 22.92                 | 22.84                    | 22.90                  |                     |
| 5               | 16QAM      | 12      | 13        | 22.86                 | 22.80                    | 22.85                  | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.88                 | 22.79                    | 22.81                  |                     |
| 5               | 64QAM      | 1       | 0         | 22.47                 | 22.36                    | 22.37                  |                     |
| 5               | 64QAM      | 1       | 12        | 22.31                 | 22.15                    | 22.60                  | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.06                 | 22.37                    | 23.00                  |                     |
| 5               | 64QAM      | 12      | 0         | 21.36                 | 21.08                    | 21.32                  |                     |
| 5               | 64QAM      | 12      | 7         | 21.26                 | 21.11                    | 21.67                  | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.10                 | 21.23                    | 21.87                  |                     |
| 5               | 64QAM      | 25      | 0         | 21.15                 | 21.06                    | 21.83                  |                     |

| Band 17         |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ann 1           |            |         |           |                       |                          |                        |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 237.0                 | 237.0                    | 238.0                  |                     |
| Frequency (MHz) |            |         |           | 708                   | 710                      | 711                    |                     |
| 10              | QPSK       | 1       | 0         | 23.48                 | 23.45                    | 23.46                  | 25.4                |
| 10              | QPSK       | 1       | 25        | 23.48                 | 23.52                    | 23.51                  |                     |
| 10              | QPSK       | 1       | 49        | 23.53                 | 23.55                    | 23.53                  |                     |
| 10              | QPSK       | 25      | 0         | 23.55                 | 23.54                    | 23.55                  | 24.4                |
| 10              | QPSK       | 25      | 12        | 23.72                 | 23.64                    | 23.82                  |                     |
| 10              | QPSK       | 25      | 25        | 23.71                 | 23.71                    | 23.70                  |                     |
| 10              | QPSK       | 50      | 0         | 23.62                 | 23.62                    | 23.61                  | 24.4                |
| 10              | 16QAM      | 1       | 0         | 23.86                 | 23.83                    | 23.81                  |                     |
| 10              | 16QAM      | 1       | 25        | 23.53                 | 23.56                    | 23.54                  |                     |
| 10              | 16QAM      | 1       | 49        | 23.54                 | 23.53                    | 23.55                  | 23.4                |
| 10              | 16QAM      | 25      | 0         | 22.95                 | 22.64                    | 22.65                  |                     |
| 10              | 16QAM      | 25      | 12        | 22.79                 | 22.72                    | 22.72                  |                     |
| 10              | 16QAM      | 25      | 25        | 22.77                 | 22.79                    | 22.79                  | 22.4                |
| 10              | 16QAM      | 50      | 0         | 22.71                 | 22.70                    | 22.68                  |                     |
| 10              | 64QAM      | 1       | 0         | 22.59                 | 22.61                    | 22.63                  |                     |
| 10              | 64QAM      | 1       | 25        | 22.76                 | 22.73                    | 22.67                  | 22.4                |
| 10              | 64QAM      | 1       | 49        | 22.85                 | 22.89                    | 22.74                  |                     |
| 10              | 64QAM      | 25      | 0         | 21.51                 | 21.45                    | 21.50                  |                     |
| 10              | 64QAM      | 25      | 12        | 21.65                 | 21.57                    | 21.63                  | 22.4                |
| 10              | 64QAM      | 25      | 25        | 21.67                 | 21.77                    | 21.74                  |                     |
| 10              | 64QAM      | 50      | 0         | 21.63                 | 21.70                    | 21.63                  |                     |
| Channel         |            |         |           | 237.05                | 237.0                    | 238.05                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 708.5                 | 710                      | 713.5                  |                     |
| 5               | QPSK       | 1       | 0         | 23.48                 | 23.47                    | 23.50                  | 25.4                |
| 5               | QPSK       | 1       | 12        | 23.56                 | 23.63                    | 23.59                  |                     |
| 5               | QPSK       | 1       | 24        | 23.63                 | 23.60                    | 23.59                  |                     |
| 5               | QPSK       | 12      | 0         | 23.59                 | 23.63                    | 23.57                  | 24.4                |
| 5               | QPSK       | 12      | 7         | 23.69                 | 23.63                    | 23.68                  |                     |
| 5               | QPSK       | 12      | 13        | 23.65                 | 23.65                    | 23.65                  |                     |
| 5               | QPSK       | 25      | 0         | 23.61                 | 23.59                    | 23.66                  | 24.4                |
| 5               | 16QAM      | 1       | 0         | 23.82                 | 23.83                    | 23.82                  |                     |
| 5               | 16QAM      | 1       | 12        | 23.59                 | 23.67                    | 23.67                  |                     |
| 5               | 16QAM      | 1       | 24        | 23.94                 | 23.92                    | 23.92                  | 23.4                |
| 5               | 16QAM      | 12      | 0         | 22.72                 | 22.75                    | 22.69                  |                     |
| 5               | 16QAM      | 12      | 7         | 22.78                 | 22.73                    | 22.78                  |                     |
| 5               | 16QAM      | 12      | 13        | 22.77                 | 22.79                    | 22.77                  | 23.4                |
| 5               | 16QAM      | 25      | 0         | 22.76                 | 22.74                    | 22.80                  |                     |
| 5               | 64QAM      | 1       | 0         | 22.57                 | 22.57                    | 22.85                  |                     |
| 5               | 64QAM      | 1       | 12        | 22.78                 | 22.71                    | 22.90                  | 23.4                |
| 5               | 64QAM      | 1       | 24        | 22.65                 | 22.64                    | 22.63                  |                     |
| 5               | 64QAM      | 12      | 0         | 21.60                 | 21.59                    | 21.79                  |                     |
| 5               | 64QAM      | 12      | 7         | 21.82                 | 21.68                    | 21.85                  | 22.4                |
| 5               | 64QAM      | 12      | 13        | 21.72                 | 21.62                    | 21.79                  |                     |
| 5               | 64QAM      | 25      | 0         | 21.57                 | 21.50                    | 21.73                  |                     |



| Band 25         |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| Art 0           |            |         |           |                       |                          |                        |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 26140                 | 26340                    | 26590                  |                     |  |  |
| Frequency (MHz) |            |         |           | 1860                  | 1860                     | 1905                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 24.79                 | 24.78                    | 24.93                  | 25.7                |  |  |
| 20              | QPSK       | 1       | 49        | 24.72                 | 24.74                    | 24.80                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 24.65                 | 24.74                    | 24.39                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 23.83                 | 23.89                    | 23.94                  | 24.7                |  |  |
| 20              | QPSK       | 50      | 24        | 23.88                 | 23.99                    | 24.01                  |                     |  |  |
| 20              | QPSK       | 50      | 50        | 23.82                 | 23.93                    | 24.00                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 23.89                 | 23.97                    | 23.98                  | 24.7                |  |  |
| 20              | 16QAM      | 1       | 0         | 24.14                 | 24.15                    | 24.16                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 24.07                 | 24.11                    | 24.17                  |                     |  |  |
| 20              | 16QAM      | 1       | 99        | 23.99                 | 24.10                    | 23.73                  | 23.7                |  |  |
| 20              | 16QAM      | 50      | 0         | 22.84                 | 22.92                    | 22.95                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.89                 | 22.99                    | 22.95                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 22.85                 | 22.94                    | 23.02                  | 23.7                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.87                 | 22.95                    | 22.93                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 23.00                 | 22.99                    | 22.88                  | 23.7                |  |  |
| 20              | 64QAM      | 1       | 49        | 22.97                 | 22.98                    | 22.98                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 22.84                 | 22.99                    | 21.87                  |                     |  |  |
| 20              | 64QAM      | 50      | 0         | 21.87                 | 21.93                    | 21.49                  | 22.7                |  |  |
| 20              | 64QAM      | 50      | 24        | 21.91                 | 22.00                    | 21.57                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 21.79                 | 21.97                    | 21.23                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.89                 | 22.01                    | 21.26                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 26115                 | 26340                    | 26615                  |                     |  |  |
| Frequency (MHz) |            |         |           | 1867.5                | 1860                     | 1907.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 24.82                 | 24.87                    | 24.89                  | 25.7                |  |  |
| 15              | QPSK       | 1       | 37        | 24.75                 | 24.80                    | 24.87                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 24.72                 | 24.82                    | 24.39                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 23.96                 | 23.93                    | 23.99                  | 24.7                |  |  |
| 15              | QPSK       | 36      | 20        | 23.89                 | 24.02                    | 24.06                  |                     |  |  |
| 15              | QPSK       | 36      | 39        | 23.83                 | 23.96                    | 23.88                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.89                 | 23.90                    | 23.95                  | 24.7                |  |  |
| 15              | 16QAM      | 1       | 0         | 24.07                 | 24.15                    | 24.19                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 24.12                 | 24.14                    | 24.22                  |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 24.05                 | 24.12                    | 23.75                  | 24.7                |  |  |
| 15              | 16QAM      | 36      | 0         | 22.86                 | 22.95                    | 22.97                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.93                 | 23.01                    | 23.05                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 22.84                 | 22.96                    | 23.00                  | 23.7                |  |  |
| 15              | 16QAM      | 75      | 0         | 22.90                 | 22.93                    | 22.98                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 23.00                 | 23.00                    | 22.86                  | 23.7                |  |  |
| 15              | 64QAM      | 1       | 37        | 22.99                 | 23.06                    | 22.92                  |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 22.74                 | 23.02                    | 21.89                  |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 21.92                 | 21.98                    | 21.61                  | 22.7                |  |  |
| 15              | 64QAM      | 36      | 20        | 21.94                 | 22.03                    | 21.57                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 21.77                 | 22.00                    | 21.24                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 21.91                 | 21.92                    | 21.31                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 26090                 | 26340                    | 26540                  |                     |  |  |
| Frequency (MHz) |            |         |           | 1855                  | 1860                     | 1910                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.77                 | 24.76                    | 24.87                  | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.70                 | 24.79                    | 24.86                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.74                 | 24.79                    | 24.33                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.96                 | 23.96                    | 23.93                  | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.95                 | 23.97                    | 23.98                  |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.92                 | 23.97                    | 23.73                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.93                 | 23.97                    | 23.87                  | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 24.14                 | 24.15                    | 24.22                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.13                 | 24.19                    | 24.23                  |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 24.11                 | 24.17                    | 23.69                  | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.93                 | 22.86                    | 22.93                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.92                 | 23.00                    | 22.98                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.89                 | 22.93                    | 22.91                  | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.92                 | 22.97                    | 22.96                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 23.07                 | 23.07                    | 22.87                  | 23.7                |  |  |
| 10              | 64QAM      | 1       | 25        | 23.08                 | 23.13                    | 22.41                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 22.88                 | 23.09                    | 21.84                  |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.94                 | 21.89                    | 21.52                  | 22.7                |  |  |
| 10              | 64QAM      | 25      | 12        | 21.98                 | 22.00                    | 21.37                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.94                 | 22.00                    | 21.06                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.96                 | 22.02                    | 21.17                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 26095                 | 26340                    | 26575                  |                     |  |  |
| Frequency (MHz) |            |         |           | 1852.5                | 1860                     | 1912.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.80                 | 24.75                    | 24.92                  | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.84                 | 24.89                    | 24.56                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.81                 | 24.88                    | 24.29                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.88                 | 23.91                    | 23.89                  | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.96                 | 23.99                    | 23.76                  |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.96                 | 23.99                    | 23.60                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.93                 | 23.93                    | 23.84                  | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 24.22                 | 24.11                    | 24.18                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 24.13                 | 24.19                    | 23.93                  |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 24.15                 | 24.18                    | 23.70                  | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.88                 | 22.95                    | 23.01                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.93                 | 23.02                    | 22.88                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.98                 | 23.02                    | 22.75                  | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.96                 | 22.97                    | 22.80                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 23.07                 | 23.01                    | 22.33                  | 23.7                |  |  |
| 5               | 64QAM      | 1       | 12        | 23.05                 | 23.07                    | 21.98                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 23.06                 | 23.11                    | 21.75                  |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.95                 | 21.98                    | 21.17                  | 22.7                |  |  |
| 5               | 64QAM      | 12      | 7         | 22.01                 | 22.06                    | 21.03                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 22.03                 | 22.08                    | 20.88                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.93                 | 22.00                    | 20.98                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 26095                 | 26340                    | 26575                  |                     |  |  |
| Frequency (MHz) |            |         |           | 1851.5                | 1860                     | 1913.5                 |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.72                 | 24.71                    | 24.65                  | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.88                 | 24.91                    | 24.53                  |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.85                 | 24.90                    | 24.29                  |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.87                 | 23.89                    | 23.71                  | 24.7                |  |  |
| 3               | QPSK       | 8       | 4         | 23.92                 | 23.96                    | 23.66                  |                     |  |  |
| 3               | QPSK       | 8       | 7         | 23.96                 | 23.97                    | 23.54                  |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.93                 | 23.95                    | 23.58                  | 24.7                |  |  |
| 3               | 16QAM      | 1       | 0         | 24.09                 | 24.01                    | 23.89                  |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 24.20                 | 24.26                    | 23.84                  |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 24.21                 | 24.24                    | 23.83                  | 23.7                |  |  |
| 3               | 16QAM      | 8       | 0         | 22.92                 | 22.95                    | 22.83                  |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 23.03                 | 23.04                    | 22.76                  |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 23.01                 | 23.02                    | 22.67                  | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.97                 | 22.97                    | 22.70                  |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.95                 | 22.96                    | 22.01                  | 23.7                |  |  |
| 3               | 64QAM      | 1       | 8         | 23.12                 | 23.20                    | 21.98                  |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 23.11                 | 23.16                    | 21.75                  |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 21.93                 | 22.00                    | 20.95                  | 22.7                |  |  |
| 3               | 64QAM      | 8       | 4         | 21.99                 | 22.07                    | 20.94                  |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 22.00                 | 22.06                    | 20.84                  |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.94                 | 21.96                    | 20.88                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 26047                 | 26340                    | 26593                  |                     |  |  |
| Frequency (MHz) |            |         |           | 1850.7                | 1860                     | 1914.3                 |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.71                 | 24.73                    | 24.37                  | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.80                 | 24.83                    | 24.31                  |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.79                 | 24.84                    | 24.20                  |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.76                 | 24.81                    | 24.32                  | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.82                 | 24.83                    | 24.33                  |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.77                 | 24.83                    | 24.24                  | 24.7                |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.85                 | 23.91                    | 23.41                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 24.05                 | 24.05                    | 23.94                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 24.12                 | 24.17                    | 23.84                  | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 5         | 24.07                 | 24.12                    | 23.54                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.81                 | 23.87                    | 23.29                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.88                 | 23.93                    | 23.48                  | 23.7                |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.84                 | 23.93                    | 23.29                  |                     |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.93                 | 22.94                    | 22.59                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 23.07                 | 23.07                    | 22.79                  | 23.7                |  |  |
| 1.4             | 64QAM      | 1       | 3         | 23.08                 | 23.12                    | 22.71                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 23.03                 | 23.06                    | 21.82                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.92                 | 22.98                    | 21.70                  | 23.7                |  |  |
| 1.4             | 64QAM      | 3       | 1         | 23.00                 | 23.05                    | 21.85                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.98                 | 23.01                    | 21.71                  |                     |  |  |



| Band 26         |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ann 1           |            |         |           |                       |                          |                        |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 807.6                 | 2695                     | 2696                   |                     |
| Frequency (MHz) |            |         |           | 821.5                 | 831.5                    | 841.5                  |                     |
| 15              | QPSK       | 1       | 0         | 23.31                 | 23.22                    | 23.23                  | 25                  |
| 15              | QPSK       | 1       | 37        | 23.18                 | 23.23                    | 23.22                  |                     |
| 15              | QPSK       | 1       | 74        | 23.23                 | 23.22                    | 23.10                  |                     |
| 15              | QPSK       | 36      | 0         | 23.36                 | 23.36                    | 23.36                  | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.39                 | 23.40                    | 23.31                  |                     |
| 15              | QPSK       | 36      | 39        | 23.33                 | 23.36                    | 23.30                  |                     |
| 15              | QPSK       | 75      | 0         | 23.40                 | 23.33                    | 23.32                  | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.59                 | 23.53                    | 23.56                  |                     |
| 15              | 16QAM      | 1       | 37        | 23.46                 | 23.54                    | 23.53                  |                     |
| 15              | 16QAM      | 1       | 74        | 23.46                 | 23.50                    | 23.40                  | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.84                 | 22.84                    | 22.87                  |                     |
| 15              | 16QAM      | 36      | 20        | 22.86                 | 22.86                    | 22.81                  |                     |
| 15              | 16QAM      | 36      | 39        | 22.82                 | 22.83                    | 22.82                  | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.86                 | 22.80                    | 22.83                  |                     |
| 15              | 64QAM      | 1       | 0         | 22.65                 | 22.69                    | 22.69                  | 23.7                |
| 15              | 64QAM      | 1       | 37        | 22.51                 | 22.94                    | 22.95                  |                     |
| 15              | 64QAM      | 1       | 74        | 22.91                 | 22.92                    | 21.70                  |                     |
| 15              | 64QAM      | 36      | 0         | 21.22                 | 21.89                    | 21.89                  | 22.7                |
| 15              | 64QAM      | 36      | 20        | 21.47                 | 21.95                    | 21.86                  |                     |
| 15              | 64QAM      | 36      | 39        | 21.86                 | 21.92                    | 21.33                  |                     |
| 15              | 64QAM      | 75      | 0         | 21.63                 | 21.84                    | 21.53                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 2674.0                | 2695                     | 2696.0                 |                     |
| Frequency (MHz) |            |         |           | 819                   | 831.5                    | 844                    |                     |
| 10              | QPSK       | 1       | 0         | 23.22                 | 23.17                    | 23.19                  | 25                  |
| 10              | QPSK       | 1       | 26        | 23.16                 | 23.20                    | 23.13                  |                     |
| 10              | QPSK       | 1       | 49        | 23.19                 | 23.19                    | 23.02                  |                     |
| 10              | QPSK       | 25      | 0         | 23.28                 | 23.35                    | 23.26                  | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.37                 | 23.35                    | 23.31                  |                     |
| 10              | QPSK       | 25      | 25        | 23.24                 | 23.26                    | 23.21                  |                     |
| 10              | QPSK       | 50      | 0         | 23.34                 | 23.32                    | 23.27                  | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.55                 | 23.52                    | 23.49                  |                     |
| 10              | 16QAM      | 1       | 26        | 23.45                 | 23.46                    | 23.51                  |                     |
| 10              | 16QAM      | 1       | 49        | 23.43                 | 23.41                    | 23.33                  | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.77                 | 22.80                    | 22.78                  |                     |
| 10              | 16QAM      | 25      | 12        | 22.81                 | 22.80                    | 22.80                  |                     |
| 10              | 16QAM      | 25      | 25        | 22.81                 | 22.73                    | 22.82                  | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.81                 | 22.75                    | 22.77                  |                     |
| 10              | 64QAM      | 1       | 0         | 22.62                 | 22.62                    | 22.79                  |                     |
| 10              | 64QAM      | 1       | 26        | 22.50                 | 22.92                    | 22.97                  | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.85                 | 22.91                    | 21.69                  |                     |
| 10              | 64QAM      | 25      | 0         | 21.14                 | 21.89                    | 21.84                  |                     |
| 10              | 64QAM      | 25      | 12        | 21.42                 | 21.86                    | 21.80                  | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.80                 | 21.89                    | 21.26                  |                     |
| 10              | 64QAM      | 50      | 0         | 21.62                 | 21.82                    | 21.51                  |                     |
| Channel         |            |         |           | 2671.5                | 2695                     | 2701.5                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                    | 846.5                  |                     |
| 5               | QPSK       | 1       | 0         | 23.30                 | 23.13                    | 23.16                  |                     |
| 5               | QPSK       | 1       | 12        | 23.10                 | 23.21                    | 23.20                  | 25                  |
| 5               | QPSK       | 1       | 24        | 23.23                 | 23.20                    | 23.01                  |                     |
| 5               | QPSK       | 12      | 0         | 23.27                 | 23.26                    | 23.30                  | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.39                 | 23.34                    | 23.31                  |                     |
| 5               | QPSK       | 12      | 13        | 23.24                 | 23.31                    | 23.29                  |                     |
| 5               | QPSK       | 25      | 0         | 23.33                 | 23.31                    | 23.31                  | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.54                 | 23.48                    | 23.55                  |                     |
| 5               | 16QAM      | 1       | 12        | 23.46                 | 23.45                    | 23.44                  |                     |
| 5               | 16QAM      | 1       | 24        | 23.43                 | 23.43                    | 23.33                  | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.75                 | 22.79                    | 22.86                  |                     |
| 5               | 16QAM      | 12      | 7         | 22.82                 | 22.81                    | 22.72                  |                     |
| 5               | 16QAM      | 12      | 13        | 22.78                 | 22.80                    | 22.72                  | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.81                 | 22.76                    | 22.78                  |                     |
| 5               | 64QAM      | 1       | 0         | 22.62                 | 22.79                    | 22.85                  |                     |
| 5               | 64QAM      | 1       | 12        | 22.46                 | 22.85                    | 22.94                  | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.91                 | 22.90                    | 21.60                  |                     |
| 5               | 64QAM      | 12      | 0         | 21.22                 | 21.82                    | 21.83                  |                     |
| 5               | 64QAM      | 12      | 7         | 21.45                 | 21.93                    | 21.83                  | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.77                 | 21.86                    | 21.35                  |                     |
| 5               | 64QAM      | 25      | 0         | 21.65                 | 21.84                    | 21.46                  |                     |
| Channel         |            |         |           | 2670.5                | 2695                     | 2702.5                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 815.5                 | 831.5                    | 847.5                  |                     |
| 3               | QPSK       | 1       | 0         | 23.22                 | 23.14                    | 23.17                  |                     |
| 3               | QPSK       | 1       | 8         | 23.11                 | 23.13                    | 23.20                  | 25                  |
| 3               | QPSK       | 1       | 14        | 23.23                 | 23.18                    | 23.00                  |                     |
| 3               | QPSK       | 8       | 0         | 23.30                 | 23.35                    | 23.31                  | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.35                 | 23.32                    | 23.28                  |                     |
| 3               | QPSK       | 8       | 7         | 23.27                 | 23.30                    | 23.21                  |                     |
| 3               | QPSK       | 15      | 0         | 23.35                 | 23.33                    | 23.29                  | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.55                 | 23.46                    | 23.55                  |                     |
| 3               | 16QAM      | 1       | 8         | 23.46                 | 23.46                    | 23.53                  |                     |
| 3               | 16QAM      | 1       | 14        | 23.45                 | 23.43                    | 23.39                  | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.83                 | 22.83                    | 22.80                  |                     |
| 3               | 16QAM      | 8       | 4         | 22.83                 | 22.87                    | 22.81                  |                     |
| 3               | 16QAM      | 8       | 7         | 22.77                 | 22.73                    | 22.81                  | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.83                 | 22.78                    | 22.77                  |                     |
| 3               | 64QAM      | 1       | 0         | 22.62                 | 22.84                    | 22.84                  |                     |
| 3               | 64QAM      | 1       | 8         | 22.47                 | 22.91                    | 22.89                  | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.87                 | 22.92                    | 21.61                  |                     |
| 3               | 64QAM      | 8       | 0         | 21.20                 | 21.80                    | 21.88                  |                     |
| 3               | 64QAM      | 8       | 4         | 21.47                 | 21.95                    | 21.83                  | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.76                 | 21.85                    | 21.23                  |                     |
| 3               | 64QAM      | 15      | 0         | 21.61                 | 21.75                    | 21.44                  |                     |
| Channel         |            |         |           | 2699.7                | 2695                     | 2703.3                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 814.7                 | 831.5                    | 848.3                  |                     |
| 1.4             | QPSK       | 1       | 0         | 23.29                 | 23.19                    | 23.14                  |                     |
| 1.4             | QPSK       | 1       | 3         | 23.16                 | 23.21                    | 23.19                  | 25                  |
| 1.4             | QPSK       | 1       | 5         | 23.23                 | 23.17                    | 23.09                  |                     |
| 1.4             | QPSK       | 3       | 0         | 23.26                 | 23.35                    | 23.31                  | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 23.34                 | 23.36                    | 23.27                  |                     |
| 1.4             | QPSK       | 3       | 3         | 23.23                 | 23.36                    | 23.21                  |                     |
| 1.4             | QPSK       | 6       | 0         | 23.33                 | 23.26                    | 23.32                  | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.53                 | 23.53                    | 23.50                  |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.45                 | 23.46                    | 23.53                  |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.46                 | 23.44                    | 23.30                  | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 22.77                 | 22.81                    | 22.83                  |                     |
| 1.4             | 16QAM      | 3       | 1         | 22.79                 | 22.80                    | 22.71                  |                     |
| 1.4             | 16QAM      | 3       | 3         | 22.76                 | 22.78                    | 22.80                  | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.85                 | 22.73                    | 22.74                  |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.62                 | 22.85                    | 22.79                  |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.47                 | 22.92                    | 22.88                  | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.86                 | 22.91                    | 21.99                  |                     |
| 1.4             | 64QAM      | 3       | 0         | 21.73                 | 21.80                    | 21.79                  |                     |
| 1.4             | 64QAM      | 3       | 1         | 21.72                 | 21.86                    | 21.84                  | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 21.83                 | 21.82                    | 21.70                  |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.56                 | 21.79                    | 21.81                  |                     |

| Band 30         |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Art 0           |            |         |           |                       |                          |                        |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 27710                 |                          |                        |                     |
| Frequency (MHz) |            |         |           | 2310                  |                          |                        |                     |
| 10              | QPSK       | 1       | 0         |                       | 22.92                    |                        | 23.7                |
| 10              | QPSK       | 1       | 25        |                       | 22.76                    |                        |                     |
| 10              | QPSK       | 1       | 49        |                       | 22.77                    |                        |                     |
| 10              | QPSK       | 25      | 0         |                       | 21.83                    |                        | 22.7                |
| 10              | QPSK       | 25      | 12        |                       | 21.88                    |                        |                     |
| 10              | QPSK       | 25      | 25        |                       | 21.97                    |                        |                     |
| 10              | QPSK       | 50      | 0         |                       | 21.86                    |                        | 22.7                |
| 10              | 16QAM      | 1       | 0         |                       | 22.20                    |                        |                     |
| 10              | 16QAM      | 1       | 25        |                       | 22.20                    |                        |                     |
| 10              | 16QAM      | 1       | 49        |                       | 22.20                    |                        | 21.7                |
| 10              | 16QAM      | 25      | 0         |                       | 20.84                    |                        |                     |
| 10              | 16QAM      | 25      | 12        |                       | 20.88                    |                        |                     |
| 10              | 16QAM      | 25      | 25        |                       | 20.99                    |                        | 21.7                |
| 10              | 16QAM      | 50      | 0         |                       | 20.87                    |                        |                     |
| 10              | 64QAM      | 1       | 0         |                       | 21.04                    |                        |                     |
| 10              | 64QAM      | 1       | 25        |                       | 21.09                    |                        | 21.7                |
| 10              | 64QAM      | 1       | 49        |                       | 21.04                    |                        |                     |
| 10              | 64QAM      | 25      | 0         |                       | 19.87                    |                        |                     |
| 10              | 64QAM      | 25      | 12        |                       | 19.92                    |                        | 20.7                |
| 10              | 64QAM      | 25      | 25        |                       | 20.00                    |                        |                     |
| 10              | 64QAM      | 50      | 0         |                       | 19.89                    |                        |                     |
| Channel         |            |         |           | 27685                 | 27710                    | 27735                  | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5                | 2310                     | 2312.5                 |                     |
| 5               | QPSK       | 1       | 0         | 22.75                 | 22.76                    | 22.76                  | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.89                 | 22.90                    | 22.87                  |                     |
| 5               | QPSK       | 1       | 24        | 22.91                 | 22.88                    | 22.86                  |                     |
| 5               | QPSK       | 12      | 0         | 21.90                 | 21.85                    | 21.87                  | 22.7                |
| 5               | QPSK       | 12      | 7         | 21.95                 | 21.97                    | 21.93                  |                     |
| 5               | QPSK       | 12      | 13        | 21.98                 | 21.96                    | 21.93                  |                     |
| 5               | QPSK       | 25      | 0         | 21.93                 | 21.87                    | 21.90                  | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.08                 | 22.07                    | 22.10                  |                     |
| 5               | 16QAM      | 1       | 12        | 22.14                 | 22.14                    | 22.12                  |                     |
| 5               | 16QAM      | 1       | 24        | 22.18                 | 22.21                    | 22.15                  | 21.7                |
| 5               | 16QAM      | 12      | 0         | 20.92                 | 20.87                    | 20.90                  |                     |
| 5               | 16QAM      | 12      | 7         | 20.98                 | 20.99                    | 20.95                  |                     |
| 5               | 16QAM      | 12      | 13        | 20.97                 | 20.97                    | 20.94                  | 21.7                |
| 5               | 16QAM      | 25      | 0         | 20.96                 | 20.90                    | 20.93                  |                     |
| 5               | 64QAM      | 1       | 0         | 20.99                 | 21.06                    | 21.07                  |                     |
| 5               | 64QAM      | 1       | 12        | 21.04                 | 21.09                    | 21.07                  | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.12                 | 21.13                    | 21.12                  |                     |
| 5               | 64QAM      | 12      | 0         | 19.99                 | 19.91                    | 19.96                  |                     |
| 5               | 64QAM      | 12      | 7         | 20.03                 | 20.03                    | 20.00                  | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.02                 | 20.02                    | 20.00                  |                     |
| 5               | 64QAM      | 25      | 0         | 19.98                 | 19.94                    | 19.94                  |                     |



| Band 66         |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| Art 0           |            |         |           |                       |                          |                        |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 130072                | 132322                   | 132572                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 24.56                 | 24.59                    | 24.79                  | 25.7                |  |  |
| 20              | QPSK       | 1       | 49        | 24.39                 | 24.48                    | 24.52                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 24.55                 | 24.55                    | 24.44                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 23.57                 | 23.67                    | 23.71                  | 24.7                |  |  |
| 20              | QPSK       | 50      | 24        | 23.64                 | 23.64                    | 23.69                  |                     |  |  |
| 20              | QPSK       | 50      | 50        | 23.65                 | 23.68                    | 23.72                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 23.63                 | 23.61                    | 23.68                  | 24.7                |  |  |
| 20              | 16QAM      | 1       | 0         | 23.91                 | 23.92                    | 24.01                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 23.77                 | 23.83                    | 23.86                  |                     |  |  |
| 20              | 16QAM      | 1       | 99        | 23.87                 | 23.88                    | 23.91                  | 23.7                |  |  |
| 20              | 16QAM      | 50      | 0         | 22.58                 | 22.68                    | 22.74                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.64                 | 22.64                    | 22.68                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 22.64                 | 22.70                    | 22.72                  | 23.7                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.63                 | 22.59                    | 22.71                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 22.74                 | 22.85                    | 22.81                  | 23.7                |  |  |
| 20              | 64QAM      | 1       | 49        | 22.64                 | 22.74                    | 22.69                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 22.76                 | 22.76                    | 22.71                  |                     |  |  |
| 20              | 64QAM      | 50      | 0         | 21.59                 | 21.68                    | 21.76                  | 22.7                |  |  |
| 20              | 64QAM      | 50      | 24        | 21.67                 | 21.67                    | 21.71                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 21.63                 | 21.72                    | 21.75                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.69                 | 21.64                    | 21.71                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 130047                | 132322                   | 132597                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 24.52                 | 24.62                    | 24.65                  | 25.7                |  |  |
| 15              | QPSK       | 1       | 37        | 24.41                 | 24.54                    | 24.56                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 24.54                 | 24.38                    | 24.55                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 23.60                 | 23.67                    | 23.72                  | 24.7                |  |  |
| 15              | QPSK       | 36      | 20        | 23.66                 | 23.65                    | 23.70                  |                     |  |  |
| 15              | QPSK       | 36      | 39        | 23.62                 | 23.70                    | 23.74                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.64                 | 23.64                    | 23.71                  | 24.7                |  |  |
| 15              | 16QAM      | 1       | 0         | 23.81                 | 23.96                    | 23.98                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 23.78                 | 23.88                    | 23.92                  |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 23.84                 | 23.92                    | 23.94                  | 23.7                |  |  |
| 15              | 16QAM      | 36      | 0         | 22.58                 | 22.68                    | 22.70                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.62                 | 22.65                    | 22.67                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 22.62                 | 22.71                    | 22.72                  | 23.7                |  |  |
| 15              | 16QAM      | 75      | 0         | 22.65                 | 22.67                    | 22.71                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 22.66                 | 22.80                    | 22.83                  | 23.7                |  |  |
| 15              | 64QAM      | 1       | 37        | 22.67                 | 22.74                    | 22.80                  |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 22.76                 | 22.81                    | 22.72                  |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 21.60                 | 21.71                    | 21.76                  | 22.7                |  |  |
| 15              | 64QAM      | 36      | 20        | 21.64                 | 21.64                    | 21.69                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 21.68                 | 21.72                    | 21.75                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 21.65                 | 21.67                    | 21.73                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 132022                | 132322                   | 132522                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.57                 | 24.58                    | 24.70                  | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.55                 | 24.64                    | 24.65                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.55                 | 24.61                    | 24.66                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.64                 | 23.69                    | 23.73                  | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.65                 | 23.71                    | 23.72                  |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.65                 | 23.75                    | 23.78                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.68                 | 23.69                    | 23.74                  | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 23.97                 | 24.04                    | 24.05                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 23.91                 | 24.02                    | 24.03                  |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 23.92                 | 23.99                    | 24.04                  | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.66                 | 22.68                    | 22.73                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.67                 | 22.71                    | 22.74                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.65                 | 22.74                    | 22.77                  | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.67                 | 22.69                    | 22.73                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.65                 | 22.67                    | 22.77                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.81                 | 22.94                    | 22.98                  | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.83                 | 22.92                    | 22.95                  |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.66                 | 21.72                    | 21.75                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.72                 | 21.73                    | 21.76                  | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 21.70                 | 21.77                    | 21.78                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.72                 | 21.72                    | 21.78                  |                     |  |  |
| Channel         |            |         |           | 132022                | 132322                   | 132522                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.57                 | 24.61                    | 24.73                  | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.59                 | 24.69                    | 24.71                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.54                 | 24.66                    | 24.71                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.66                 | 23.71                    | 23.81                  | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.68                 | 23.79                    | 23.81                  |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.63                 | 23.78                    | 23.81                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.65                 | 23.70                    | 23.79                  | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 23.93                 | 23.95                    | 24.04                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.95                 | 24.02                    | 24.03                  |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 23.91                 | 23.99                    | 24.03                  | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.70                 | 22.75                    | 22.85                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.73                 | 22.81                    | 22.86                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.70                 | 22.77                    | 22.81                  | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.67                 | 22.70                    | 22.79                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.64                 | 22.64                    | 23.03                  | 23.7                |  |  |
| 5               | 64QAM      | 1       | 12        | 22.90                 | 22.98                    | 22.98                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 22.87                 | 22.94                    | 22.91                  |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.73                 | 21.76                    | 21.87                  | 22.7                |  |  |
| 5               | 64QAM      | 12      | 7         | 21.78                 | 21.84                    | 21.87                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.69                 | 21.82                    | 21.82                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.68                 | 21.73                    | 21.83                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 131997                | 132322                   | 132597                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1711.5                | 1745                     | 1778.5                 |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.59                 | 24.64                    | 24.72                  | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.64                 | 24.74                    | 24.78                  |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.58                 | 24.68                    | 24.67                  |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.68                 | 23.70                    | 23.76                  | 24.7                |  |  |
| 3               | QPSK       | 8       | 4         | 23.69                 | 23.80                    | 23.79                  |                     |  |  |
| 3               | QPSK       | 8       | 7         | 23.67                 | 23.72                    | 23.76                  |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.68                 | 23.67                    | 23.78                  | 24.7                |  |  |
| 3               | 16QAM      | 1       | 0         | 23.92                 | 23.98                    | 24.05                  |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 24.00                 | 24.10                    | 24.14                  |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 23.89                 | 24.00                    | 24.00                  | 23.7                |  |  |
| 3               | 16QAM      | 8       | 0         | 22.72                 | 22.78                    | 22.86                  |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.77                 | 22.83                    | 22.89                  |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.72                 | 22.84                    | 22.81                  | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.70                 | 22.75                    | 22.79                  |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.62                 | 22.93                    | 22.94                  | 23.7                |  |  |
| 3               | 64QAM      | 1       | 8         | 22.93                 | 22.95                    | 23.03                  |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 22.85                 | 22.99                    | 22.97                  |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 21.76                 | 21.73                    | 21.81                  | 22.7                |  |  |
| 3               | 64QAM      | 8       | 4         | 21.78                 | 21.82                    | 21.87                  |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 21.75                 | 21.81                    | 21.84                  |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.69                 | 21.74                    | 21.83                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 131979                | 132322                   | 132595                 |                     |  |  |
| Frequency (MHz) |            |         |           | 1710.7                | 1745                     | 1779.3                 |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.47                 | 24.62                    | 24.61                  | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.56                 | 24.66                    | 24.71                  |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.51                 | 24.56                    | 24.65                  |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.52                 | 24.63                    | 24.65                  | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.55                 | 24.68                    | 24.71                  |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.53                 | 24.64                    | 24.66                  |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.60                 | 23.70                    | 23.75                  | 24.7                |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.63                 | 23.94                    | 23.95                  |                     |  |  |
| 1.4             | QPSK       | 6       | 3         | 23.64                 | 24.01                    | 24.03                  |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.94                 | 23.93                    | 23.94                  | 24.7                |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.93                 | 23.92                    | 23.96                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.98                 | 23.99                    | 23.94                  |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.68                 | 23.79                    | 23.80                  | 23.7                |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.61                 | 23.71                    | 23.72                  |                     |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.67                 | 22.76                    | 22.77                  |                     |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.70                 | 22.75                    | 22.79                  | 23.7                |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.64                 | 22.94                    | 22.95                  |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.60                 | 22.82                    | 22.89                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.76                 | 22.82                    | 22.89                  | 23.7                |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.79                 | 22.88                    | 22.92                  |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.75                 | 22.85                    | 22.87                  |                     |  |  |

| Band 71         |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Art 1           |            |         |           |                       |                          |                        |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 13322                 | 13322                    | 13322                  |                     |
| Frequency (MHz) |            |         |           | 673                   | 683                      | 688                    |                     |
| 20              | QPSK       | 1       | 0         | 23.51                 | 23.41                    | 23.36                  | 25.2                |
| 20              | QPSK       | 1       | 49        | 23.40                 | 23.39                    | 23.36                  |                     |
| 20              | QPSK       | 1       | 99        | 23.42                 | 23.37                    | 23.31                  |                     |
| 20              | QPSK       | 50      | 0         | 23.54                 | 23.48                    | 23.43                  | 24.2                |
| 20              | QPSK       | 50      | 24        | 23.57                 | 23.47                    | 23.44                  |                     |
| 20              | QPSK       | 50      | 50        | 23.57                 | 23.49                    | 23.46                  |                     |
| 20              | QPSK       | 100     | 0         | 23.55                 | 23.45                    | 23.43                  | 24.2                |
| 20              | 16QAM      | 1       | 0         | 23.85                 | 23.73                    | 23.69                  |                     |
| 20              | 16QAM      | 1       | 49        | 23.72                 | 23.76                    | 23.70                  |                     |
| 20              | 16QAM      | 1       | 99        | 23.80                 | 23.68                    | 23.64                  | 23.2                |
| 20              | 16QAM      | 50      | 0         | 22.85                 | 22.80                    | 22.76                  |                     |
| 20              | 16QAM      | 50      | 24        | 22.89                 | 22.80                    | 22.74                  |                     |
| 20              | 16QAM      | 50      | 50        | 22.86                 | 22.79                    | 22.77                  | 23.2                |
| 20              | 16QAM      | 100     | 0         | 22.87                 | 22.76                    | 22.71                  |                     |
| 20              | 64QAM      | 1       | 0         | 22.23                 | 22.83                    | 22.83                  | 23.2                |
| 20              | 64QAM      | 1       | 49        | 22.84                 | 22.91                    | 22.55                  |                     |
| 20              | 64QAM      | 1       | 99        | 22.97                 | 22.74                    | 22.48                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.26                 | 21.83                    | 21.78                  | 22.2                |
| 20              | 64QAM      | 50      | 24        | 21.73                 | 21.83                    | 21.77                  |                     |
| 20              | 64QAM      | 50      | 50        | 21.90                 | 21.83                    | 21.79                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.74                 | 21.77                    | 21.74                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 133197                | 133207                   | 133307                 |                     |
| Frequency (MHz) |            |         |           | 670.5                 | 680.5                    | 690.5                  |                     |
| 15              | QPSK       | 1       | 0         | 23.54                 | 23.45                    | 23.39                  | 25.2                |
| 15              | QPSK       | 1       | 37        | 23.41                 | 23.39                    | 23.35                  |                     |
| 15              | QPSK       | 1       | 74        | 23.43                 | 23.40                    | 23.35                  |                     |
| 15              | QPSK       | 36      | 0         | 23.52                 | 23.48                    | 23.42                  | 24.2                |
| 15              | QPSK       | 36      | 20        | 23.58                 | 23.48                    | 23.42                  |                     |
| 15              | QPSK       | 36      | 39        | 23.47                 | 23.52                    | 23.46                  |                     |
| 15              | QPSK       | 75      | 0         | 23.58                 | 23.47                    | 23.41                  | 24.2                |
| 15              | 16QAM      | 1       | 0         | 23.84                 | 23.73                    | 23.69                  |                     |
| 15              | 16QAM      | 1       | 37        | 23.76                 | 23.74                    | 23.69                  |                     |
| 15              | 16QAM      | 1       | 74        | 23.74                 | 23.71                    | 23.66                  | 23.2                |
| 15              | 16QAM      | 36      | 0         | 22.85                 | 22.79                    | 22.75                  |                     |
| 15              | 16QAM      | 36      | 20        | 22.86                 | 22.77                    | 22.74                  |                     |
| 15              | 16QAM      | 36      | 39        | 22.82                 | 22.80                    | 22.78                  | 23.2                |
| 15              | 16QAM      | 75      | 0         | 22.90                 | 22.76                    | 22.72                  |                     |
| 15              | 64QAM      | 1       | 0         | 22.09                 | 22.86                    | 22.86                  | 23.2                |
| 15              | 64QAM      | 1       | 37        | 22.04                 | 22.92                    | 22.93                  |                     |
| 15              | 64QAM      | 1       | 74        | 22.94                 | 22.85                    | 22.87                  |                     |
| 15              | 64QAM      | 36      | 0         | 21.06                 | 21.81                    | 21.77                  | 22.2                |
| 15              | 64QAM      | 36      | 20        | 21.25                 | 21.81                    | 21.79                  |                     |
| 15              | 64QAM      | 36      | 39        | 21.83                 | 21.76                    | 21.81                  |                     |
| 15              | 64QAM      | 75      | 0         | 21.63                 | 21.78                    | 21.74                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 133172                | 133272                   | 133422                 |                     |
| Frequency (MHz) |            |         |           | 668                   | 678                      | 683                    |                     |
| 10              | QPSK       | 1       | 0         | 23.53                 | 23.40                    | 23.40                  | 25.2                |
| 10              | QPSK       | 1       | 25        | 23.40                 | 23.34                    | 23.36                  |                     |
| 10              | QPSK       | 1       | 49        | 23.42                 | 23.40                    | 23.31                  |                     |
| 10              | QPSK       | 25      | 0         | 23.59                 | 23.47                    | 23.44                  | 24.2                |
| 10              | QPSK       | 25      | 12        | 23.59                 | 23.56                    | 23.45                  |                     |
| 10              | QPSK       | 25      | 25        | 23.55                 | 23.52                    | 23.46                  |                     |
| 10              | QPSK       | 50      | 0         | 23.59                 | 23.56                    | 23.43                  | 24.2                |
| 10              | 16QAM      | 1       | 0         | 23.83                 | 23.73                    | 23.77                  |                     |
| 10              | 16QAM      | 1       | 25        | 23.80                 | 23.80                    | 23.78                  |                     |
| 10              | 16QAM      | 1       | 49        | 23.80                 | 23.79                    | 23.71                  | 23.2                |
| 10              | 16QAM      | 25      | 0         | 22.85                 | 22.78                    | 22.72                  |                     |
| 10              | 16QAM      | 25      | 12        | 22.89                 | 22.86                    | 22.71                  |                     |
| 10              | 16QAM      | 25      | 25        | 22.83                 | 22.80                    | 22.76                  | 23.2                |
| 10              | 16QAM      | 50      | 0         | 22.90                 | 22.84                    | 22.72                  |                     |
| 10              | 64QAM      | 1       | 0         | 22.09                 | 22.70                    | 22.86                  | 23.2                |
| 10              | 64QAM      | 1       | 25        | 22.21                 | 23.01                    | 22.94                  |                     |
| 10              | 64QAM      | 1       | 49        | 22.55                 | 22.99                    | 22.85                  |                     |
| 10              | 64QAM      | 25      | 0         | 20.96                 | 21.81                    | 21.76                  | 22.2                |
| 10              | 64QAM      | 25      | 12        | 21.03                 | 21.88                    | 21.78                  |                     |
| 10              | 64QAM      | 25      | 25        | 21.12                 | 21.84                    | 21.81                  |                     |
| 10              | 64QAM      | 50      | 0         | 21.11                 | 21.86                    | 21.73                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 133147                | 133247                   | 133447                 |                     |
| Frequency (MHz) |            |         |           | 665.5                 | 675.5                    | 695.5                  |                     |
| 5               | QPSK       | 1       | 0         | 23.56                 | 23.46                    | 23.40                  | 25.2                |
| 5               | QPSK       | 1       | 12        | 23.54                 | 23.43                    | 23.35                  |                     |
| 5               | QPSK       | 1       | 24        | 23.47                 | 23.41                    | 23.34                  |                     |
| 5               | QPSK       | 12      | 0         | 23.66                 | 23.52                    | 23.45                  | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.61                 | 23.55                    | 23.45                  |                     |
| 5               | QPSK       | 12      | 13        | 23.54                 | 23.49                    | 23.40                  |                     |
| 5               | QPSK       | 25      | 0         | 23.58                 | 23.54                    | 23.39                  | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.84                 | 23.79                    | 23.71                  |                     |
| 5               | 16QAM      | 1       | 12        | 23.76                 | 23.77                    | 23.69                  |                     |
| 5               | 16QAM      | 1       | 24        | 23.76                 | 23.72                    | 23.63                  | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.74                 | 22.87                    | 22.78                  |                     |
| 5               | 16QAM      | 12      | 7         | 22.83                 | 22.88                    | 22.80                  |                     |
| 5               | 16QAM      | 12      | 13        | 22.85                 | 22.83                    | 22.72                  | 23.2                |
| 5               | 64QAM      | 1       | 0         | 21.70                 | 22.53                    | 22.71                  |                     |
| 5               | 64QAM      | 1       | 12        | 21.79                 | 23.04                    | 22.89                  |                     |
| 5               | 64QAM      | 1       | 24        | 22.03                 | 23.04                    | 22.65                  | 22.2                |
| 5               | 64QAM      | 12      | 0         | 20.85                 | 21.90                    | 21.65                  |                     |
| 5               | 64QAM      | 12      | 7         | 20.96                 | 21.91                    | 21.68                  |                     |
| 5               | 64QAM      | 12      | 13        | 20.91                 | 21.88                    | 21.52                  | 22.2                |
| 5               | 64QAM      | 25      | 0         | 20.83                 | 21.87                    | 21.45                  |                     |





| Band 2          |            |         |           |                                                                              |                   |                 |                     |  |  |  |  |
|-----------------|------------|---------|-----------|------------------------------------------------------------------------------|-------------------|-----------------|---------------------|--|--|--|--|
| Ant 2           |            |         |           |                                                                              |                   |                 |                     |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./                                                               | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18700                                                                        | 18900             | 19100           |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 18700                                                                        | 18900             | 19000           |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 23.08                                                                        | 23.12             | 23.11           | 25                  |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 23.06                                                                        | 23.06             | 23.06           |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 23.01                                                                        | 23.05             | 23.07           |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.15                                                                        | 23.17             | 23.09           | 24                  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.22                                                                        | 23.21             | 23.20           |                     |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.20                                                                        | 23.25             | 23.21           |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.23                                                                        | 23.15             | 22.99           | 24                  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.39                                                                        | 23.46             | 23.41           |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.39                                                                        | 23.45             | 22.85           |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.31                                                                        | 23.41             | 23.33           | 23                  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.63                                                                        | 22.67             | 22.33           |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.74                                                                        | 22.71             | 22.35           |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.71                                                                        | 22.75             | 22.69           | 23                  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.72                                                                        | 22.64             | 22.52           |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.67                                                                        | 22.33             | 22.32           |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.24                                                                        | 22.76             | 21.22           | 23                  |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 21.79                                                                        | 22.77             | 21.95           |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 20.33                                                                        | 20.32             | 20.32           |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 20.31                                                                        | 20.30             | 20.35           | 22                  |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 20.79                                                                        | 20.33             | 20.85           |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.17                                                                        | 20.35             | 20.60           |                     |  |  |  |  |
| Channel         |            |         |           | 18675                                                                        | 18900             | 19125           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 18675                                                                        | 18800             | 19025           |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 23.06                                                                        | 23.07             | 23.06           | 25                  |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 23.06                                                                        | 23.03             | 23.06           |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 23.01                                                                        | 23.03             | 23.00           |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.10                                                                        | 23.11             | 22.99           | 24                  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.13                                                                        | 23.14             | 23.14           |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.13                                                                        | 23.19             | 23.16           |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.20                                                                        | 23.10             | 22.93           | 24                  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.33                                                                        | 23.39             | 23.35           |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.30                                                                        | 23.43             | 22.94           |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.29                                                                        | 23.39             | 23.25           | 23                  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.53                                                                        | 22.64             | 22.33           |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.69                                                                        | 22.69             | 22.27           |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.69                                                                        | 22.67             | 22.85           | 23                  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.72                                                                        | 22.54             | 22.47           |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.58                                                                        | 22.25             | 22.23           |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.24                                                                        | 22.73             | 21.21           | 23                  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 21.73                                                                        | 22.76             | 21.93           |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.61                                                                        | 21.57             | 20.29           |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.23                                                                        | 21.63             | 20.34           | 22                  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 20.73                                                                        | 21.70             | 20.85           |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.14                                                                        | 21.30             | 20.51           |                     |  |  |  |  |
| Channel         |            |         |           | 18650 <th>18900</th> <th>19150</th> <th colspan="3">Tune-up limit (dBm)</th> | 18900             | 19150           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 18650 <th>18800</th> <th>19005</th> <th colspan="3"></th>                    | 18800             | 19005           |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 23.08                                                                        | 23.04             | 23.01           | 25                  |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 23.06                                                                        | 23.02             | 23.01           |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 23.00                                                                        | 23.04             | 23.01           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.08                                                                        | 23.14             | 23.04           | 24                  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.17                                                                        | 23.17             | 23.18           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.18                                                                        | 23.20             | 23.14           |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.19                                                                        | 23.14             | 22.92           | 24                  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.37                                                                        | 23.42             | 23.33           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.37                                                                        | 23.45             | 22.80           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.28                                                                        | 23.41             | 23.32           | 23                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.59                                                                        | 22.63             | 22.25           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.73                                                                        | 22.68             | 22.26           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.62                                                                        | 22.65             | 22.63           | 23                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.62                                                                        | 22.55             | 22.50           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.60                                                                        | 22.32             | 22.32           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.18                                                                        | 22.66             | 21.21           | 23                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.72                                                                        | 22.72             | 21.90           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.60                                                                        | 21.58             | 20.23           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.20                                                                        | 21.64             | 20.27           | 22                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 20.72                                                                        | 21.68             | 20.81           |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.16                                                                        | 21.36             | 20.50           |                     |  |  |  |  |
| Channel         |            |         |           | 18625                                                                        | 18900             | 19175           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 18625                                                                        | 18800             | 19075           |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 23.05                                                                        | 23.07             | 23.09           | 25                  |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 23.03                                                                        | 23.00             | 23.02           |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 23.01                                                                        | 23.00             | 23.03           |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.13                                                                        | 23.07             | 23.07           | 24                  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.18                                                                        | 23.12             | 23.14           |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.14                                                                        | 23.19             | 23.15           |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.17                                                                        | 23.13             | 22.92           | 24                  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.29                                                                        | 23.36             | 23.35           |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.33                                                                        | 23.38             | 22.85           |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.30                                                                        | 23.32             | 23.26           | 23                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.62                                                                        | 22.60             | 22.32           |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.73                                                                        | 22.62             | 22.25           |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.64                                                                        | 22.73             | 22.68           | 23                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.70                                                                        | 22.59             | 22.49           |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.57                                                                        | 22.24             | 22.29           |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.24                                                                        | 22.68             | 21.20           | 23                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.72                                                                        | 22.67             | 21.91           |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.53                                                                        | 21.54             | 20.30           |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.16                                                                        | 21.69             | 20.35           | 22                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 20.70                                                                        | 21.67             | 20.76           |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.17                                                                        | 21.36             | 20.55           |                     |  |  |  |  |
| Channel         |            |         |           | 18615                                                                        | 18900             | 19165           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 18615                                                                        | 18800             | 19085           |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 23.07                                                                        | 23.07             | 23.09           | 25                  |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 23.05                                                                        | 23.06             | 23.00           |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 23.02                                                                        | 23.00             | 23.02           |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.09                                                                        | 23.11             | 22.99           | 24                  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.16                                                                        | 23.12             | 23.10           |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.15                                                                        | 23.15             | 23.12           |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.13                                                                        | 23.09             | 22.98           | 24                  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.29                                                                        | 23.45             | 23.33           |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 23.30                                                                        | 23.35             | 22.76           |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.31                                                                        | 23.34             | 23.26           | 23                  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.58                                                                        | 22.67             | 22.31           |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.67                                                                        | 22.69             | 22.27           |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.70                                                                        | 22.73             | 22.65           | 23                  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.62                                                                        | 22.59             | 22.47           |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.66                                                                        | 22.31             | 22.30           |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.22                                                                        | 22.68             | 21.22           | 23                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.70                                                                        | 22.75             | 21.89           |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.54                                                                        | 21.56             | 20.25           |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.16                                                                        | 21.70             | 20.30           | 22                  |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 20.69                                                                        | 21.67             | 20.81           |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.12                                                                        | 21.37             | 20.55           |                     |  |  |  |  |
| Channel         |            |         |           | 18607                                                                        | 18900             | 19193           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 18607                                                                        | 18800             | 19093           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.06                                                                        | 23.09             | 23.05           | 25                  |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.00                                                                        | 23.01             | 23.05           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 23.00                                                                        | 23.04             | 23.02           |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.06                                                                        | 23.10             | 23.07           | 24                  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.20                                                                        | 23.13             | 23.17           |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.12                                                                        | 23.23             | 23.11           |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.17                                                                        | 23.11             | 22.91           | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.35                                                                        | 23.44             | 23.39           |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.35                                                                        | 23.41             | 22.82           |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.22                                                                        | 23.34             | 23.24           | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.63                                                                        | 22.62             | 22.26           |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.72                                                                        | 22.67             | 22.30           |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.61                                                                        | 22.69             | 22.62           | 23                  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.66                                                                        | 22.55             | 22.51           |                     |  |  |  |  |
| 1.4             | 16QAM      | 6       | 1         | 22.62                                                                        | 22.52             | 22.30           |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.20                                                                        | 22.72             | 22.23           | 23                  |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.71                                                                        | 22.87             | 21.92           |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.66                                                                        | 21.69             | 21.68           |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.62                                                                        | 21.68             | 21.65           | 23                  |  |  |  |  |
| 1.4             | 64QAM      | 3       | 5         | 21.61                                                                        | 21.67             | 21.56           |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 7         | 21.60                                                                        | 21.66             | 21.55           |                     |  |  |  |  |



| Band 4   |            |         |           |         |       |       |  |  |  |
|----------|------------|---------|-----------|---------|-------|-------|--|--|--|
| Ant 2    |            |         |           |         |       |       |  |  |  |
| BW (MHz) | Modulation | RB Size | RB Offset | Power   | Power | Power |  |  |  |
|          | n          | Channel |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050   | 20175 | 20300 |  |  |  |
|          |            |         |           | 20050</ |       |       |  |  |  |

| Band 5          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20450           | 20525              | 20600            |                     |
| Frequency (MHz) |            |         |           | 829             | 836.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.78           | 24.62              | 24.62            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58           | 24.62              | 24.62            |                     |
| 10              | QPSK       | 1       | 49        | 24.58           | 24.62              | 24.26            |                     |
| 10              | QPSK       | 25      | 0         | 23.68           | 23.73              | 23.72            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.75           | 23.74              | 23.72            |                     |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.78              | 23.73            |                     |
| 10              | QPSK       | 50      | 0         | 23.75           | 23.70              | 23.73            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.01           | 24.01              | 23.99            |                     |
| 10              | 16QAM      | 1       | 25        | 23.98           | 24.05              | 24.00            |                     |
| 10              | 16QAM      | 1       | 49        | 24.00           | 24.04              | 23.60            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.74              | 22.71            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.72              | 22.75            |                     |
| 10              | 16QAM      | 25      | 25        | 22.72           | 22.78              | 22.79            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.77           | 22.74              | 22.75            |                     |
| 10              | 64QAM      | 1       | 0         | 22.88           | 22.88              | 22.87            | 23.7                |
| 10              | 64QAM      | 1       | 25        | 22.92           | 22.85              | 22.85            |                     |
| 10              | 64QAM      | 1       | 49        | 22.89           | 22.48              | 21.77            |                     |
| 10              | 64QAM      | 25      | 0         | 21.67           | 21.78              | 21.76            | 22.7                |
| 10              | 64QAM      | 25      | 12        | 21.80           | 21.77              | 21.68            |                     |
| 10              | 64QAM      | 25      | 25        | 21.76           | 21.64              | 21.09            |                     |
| 10              | 64QAM      | 50      | 0         | 21.79           | 21.74              | 21.27            | Tune-up limit (dBm) |
| Channel         |            |         |           | 20425           | 20525              | 20625            |                     |
| Frequency (MHz) |            |         |           | 826.5           | 836.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.75           | 24.69              | 24.67            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.65           | 24.72              | 24.40            |                     |
| 5               | QPSK       | 1       | 24        | 24.61           | 24.65              | 24.19            |                     |
| 5               | QPSK       | 12      | 0         | 23.77           | 23.72              | 23.75            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.73           | 23.78              | 23.42            |                     |
| 5               | QPSK       | 12      | 13        | 23.70           | 23.74              | 23.13            |                     |
| 5               | QPSK       | 25      | 0         | 23.74           | 23.70              | 23.60            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.08           | 24.03              | 24.01            |                     |
| 5               | 16QAM      | 1       | 12        | 23.99           | 24.03              | 23.67            |                     |
| 5               | 16QAM      | 1       | 24        | 23.96           | 23.99              | 23.34            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.81           | 22.77              | 22.75            |                     |
| 5               | 16QAM      | 12      | 7         | 22.78           | 22.81              | 22.61            |                     |
| 5               | 16QAM      | 12      | 13        | 22.74           | 22.75              | 22.31            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75           | 22.72              | 22.69            |                     |
| 5               | 64QAM      | 1       | 0         | 22.75           | 22.84              | 22.82            |                     |
| 5               | 64QAM      | 1       | 12        | 22.90           | 22.85              | 21.90            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.89           | 22.62              | 21.71            |                     |
| 5               | 64QAM      | 12      | 0         | 21.73           | 21.80              | 21.31            |                     |
| 5               | 64QAM      | 12      | 7         | 21.80           | 21.79              | 20.75            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.75           | 21.66              | 20.71            |                     |
| 5               | 64QAM      | 25      | 0         | 21.73           | 21.75              | 20.81            |                     |
| Channel         |            |         |           | 20415           | 20525              | 20635            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 825.5           | 836.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.70           | 24.66              | 24.52            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.67           | 24.70              | 24.11            |                     |
| 3               | QPSK       | 1       | 14        | 24.54           | 24.62              | 24.05            |                     |
| 3               | QPSK       | 8       | 0         | 23.76           | 23.73              | 23.36            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.68           | 23.74              | 23.21            |                     |
| 3               | QPSK       | 8       | 7         | 23.67           | 23.72              | 23.15            |                     |
| 3               | QPSK       | 15      | 0         | 23.72           | 23.67              | 23.28            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.01           | 23.96              | 23.87            |                     |
| 3               | 16QAM      | 1       | 8         | 23.99           | 24.02              | 23.50            |                     |
| 3               | 16QAM      | 1       | 14        | 23.89           | 23.92              | 23.42            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.83           | 22.76              | 22.54            |                     |
| 3               | 16QAM      | 8       | 4         | 22.79           | 22.80              | 22.36            |                     |
| 3               | 16QAM      | 8       | 7         | 22.75           | 22.78              | 22.29            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.77           | 22.69              | 22.43            |                     |
| 3               | 64QAM      | 1       | 0         | 22.65           | 22.90              | 21.96            |                     |
| 3               | 64QAM      | 1       | 8         | 22.66           | 22.97              | 21.74            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.64           | 22.82              | 21.71            |                     |
| 3               | 64QAM      | 8       | 0         | 21.61           | 21.75              | 20.73            |                     |
| 3               | 64QAM      | 8       | 4         | 21.69           | 21.82              | 20.72            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.70           | 21.78              | 20.71            |                     |
| 3               | 64QAM      | 15      | 0         | 21.74           | 21.69              | 20.78            |                     |
| Channel         |            |         |           | 20407           | 20525              | 20643            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 824.7           | 836.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.58           | 24.53              | 23.98            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.59           | 24.61              | 24.06            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.51           | 24.53              | 24.06            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.62           | 24.57              | 23.99            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.62           | 24.57              | 24.05            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.60           | 24.58              | 24.12            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.64           | 23.64              | 23.08            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.88           | 23.96              | 23.26            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.93           | 23.95              | 23.39            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.83           | 23.89              | 23.43            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.67           | 23.62              | 23.14            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.71           | 23.66              | 23.17            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.64           | 23.67              | 23.21            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71           | 22.74              | 22.28            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.64           | 22.80              | 21.77            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.66           | 22.88              | 21.78            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.62           | 22.79              | 21.73            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.61           | 22.78              | 21.72            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.66           | 22.79              | 21.77            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.64           | 22.78              | 21.77            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.50           | 21.69              | 20.74            |                     |



| Band 7          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Part 2          |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20650           | 21100              | 21350            |                     |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |
| 20              | QPSK       | 1       | 0         | 23.88           | 23.95              | 23.99            | 25.7                |
| 20              | QPSK       | 1       | 49        | 23.94           | 23.99              | 23.98            |                     |
| 20              | QPSK       | 1       | 99        | 23.99           | 24.08              | 24.04            |                     |
| 20              | QPSK       | 50      | 0         | 23.50           | 23.86              | 23.88            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.95           | 23.91              | 23.90            |                     |
| 20              | QPSK       | 50      | 50        | 23.96           | 24.03              | 24.02            |                     |
| 20              | QPSK       | 100     | 0         | 23.90           | 23.91              | 23.90            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.02           | 24.08              | 24.14            |                     |
| 20              | 16QAM      | 1       | 49        | 24.10           | 24.16              | 24.15            |                     |
| 20              | 16QAM      | 1       | 99        | 24.15           | 24.26              | 24.16            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.83           | 22.88              | 22.91            |                     |
| 20              | 16QAM      | 50      | 24        | 22.93           | 22.91              | 22.92            |                     |
| 20              | 16QAM      | 50      | 50        | 22.94           | 23.03              | 22.98            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.90           | 22.89              | 22.92            |                     |
| 20              | 64QAM      | 1       | 0         | 22.87           | 22.95              | 22.99            |                     |
| 20              | 64QAM      | 1       | 49        | 22.92           | 23.04              | 22.70            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 23.04           | 23.13              | 22.95            |                     |
| 20              | 64QAM      | 50      | 0         | 21.82           | 21.89              | 21.91            |                     |
| 20              | 64QAM      | 50      | 24        | 21.95           | 21.94              | 21.75            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.95           | 22.02              | 21.58            |                     |
| 20              | 64QAM      | 100     | 0         | 21.92           | 21.90              | 21.79            |                     |
| Channel         |            |         |           | 20825           | 21100              | 21375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5          | 2535               | 2562.5           |                     |
| 15              | QPSK       | 1       | 0         | 23.91           | 24.01              | 23.99            | 25.7                |
| 15              | QPSK       | 1       | 37        | 23.95           | 24.02              | 24.02            |                     |
| 15              | QPSK       | 1       | 74        | 24.01           | 24.10              | 24.04            |                     |
| 15              | QPSK       | 36      | 0         | 23.79           | 23.86              | 23.86            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.93           | 23.92              | 23.89            |                     |
| 15              | QPSK       | 36      | 39        | 23.92           | 23.97              | 23.95            |                     |
| 15              | QPSK       | 75      | 0         | 23.86           | 23.87              | 23.88            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.99           | 24.11              | 24.13            |                     |
| 15              | 16QAM      | 1       | 37        | 24.05           | 24.14              | 24.11            |                     |
| 15              | 16QAM      | 1       | 74        | 24.13           | 24.19              | 24.11            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.82           | 22.87              | 22.88            |                     |
| 15              | 16QAM      | 36      | 20        | 22.90           | 22.90              | 22.88            |                     |
| 15              | 16QAM      | 36      | 39        | 22.93           | 23.00              | 22.95            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.90           | 22.95              | 22.90            |                     |
| 15              | 64QAM      | 1       | 0         | 22.86           | 22.95              | 22.95            |                     |
| 15              | 64QAM      | 1       | 37        | 22.99           | 23.07              | 22.41            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 23.04           | 23.12              | 22.69            |                     |
| 15              | 64QAM      | 36      | 0         | 21.81           | 21.91              | 21.76            |                     |
| 15              | 64QAM      | 36      | 20        | 21.93           | 21.93              | 21.55            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.97           | 22.02              | 21.61            |                     |
| 15              | 64QAM      | 75      | 0         | 21.90           | 21.90              | 21.60            |                     |
| Channel         |            |         |           | 20800           | 21100              | 21400            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505            | 2535               | 2565             |                     |
| 10              | QPSK       | 1       | 0         | 23.87           | 23.94              | 23.91            | 25.7                |
| 10              | QPSK       | 1       | 25        | 23.85           | 23.93              | 23.92            |                     |
| 10              | QPSK       | 1       | 49        | 23.92           | 24.02              | 23.92            |                     |
| 10              | QPSK       | 25      | 0         | 23.85           | 23.86              | 23.80            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.87           | 23.90              | 23.86            |                     |
| 10              | QPSK       | 25      | 25        | 23.86           | 23.96              | 23.89            |                     |
| 10              | QPSK       | 50      | 0         | 23.87           | 23.89              | 23.84            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.05           | 24.11              | 24.09            |                     |
| 10              | 16QAM      | 1       | 25        | 24.03           | 24.15              | 24.14            |                     |
| 10              | 16QAM      | 1       | 49        | 24.13           | 24.21              | 24.12            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.85              | 22.82            |                     |
| 10              | 16QAM      | 25      | 12        | 22.99           | 22.88              | 22.85            |                     |
| 10              | 16QAM      | 25      | 25        | 22.87           | 22.95              | 22.89            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.85           | 22.88              | 22.84            |                     |
| 10              | 64QAM      | 1       | 0         | 22.96           | 22.98              | 22.70            |                     |
| 10              | 64QAM      | 1       | 25        | 22.97           | 23.07              | 22.76            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 23.01           | 23.12              | 22.89            |                     |
| 10              | 64QAM      | 25      | 0         | 21.85           | 21.88              | 21.53            |                     |
| 10              | 64QAM      | 25      | 12        | 21.92           | 21.92              | 21.64            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.91           | 21.97              | 21.69            |                     |
| 10              | 64QAM      | 50      | 0         | 21.88           | 21.92              | 21.52            |                     |
| Channel         |            |         |           | 20775           | 21100              | 21425            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5          | 2535               | 2567.5           |                     |
| 5               | QPSK       | 1       | 0         | 23.91           | 23.93              | 23.94            | 25.7                |
| 5               | QPSK       | 1       | 12        | 23.94           | 24.05              | 23.97            |                     |
| 5               | QPSK       | 1       | 24        | 23.95           | 24.04              | 23.95            |                     |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.90              | 23.86            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.87           | 23.91              | 23.87            |                     |
| 5               | QPSK       | 12      | 13        | 23.83           | 23.93              | 23.89            |                     |
| 5               | QPSK       | 25      | 0         | 23.83           | 23.86              | 23.84            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.05           | 24.12              | 24.09            |                     |
| 5               | 16QAM      | 1       | 12        | 24.08           | 24.15              | 24.06            |                     |
| 5               | 16QAM      | 1       | 24        | 24.10           | 24.17              | 24.07            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.87           | 22.90              | 22.90            |                     |
| 5               | 16QAM      | 12      | 7         | 22.89           | 22.94              | 22.87            |                     |
| 5               | 16QAM      | 12      | 13        | 22.90           | 22.96              | 22.89            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.87           | 22.89              | 22.86            |                     |
| 5               | 64QAM      | 1       | 0         | 22.96           | 23.02              | 22.70            |                     |
| 5               | 64QAM      | 1       | 12        | 22.96           | 23.08              | 22.72            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 23.00           | 23.10              | 22.82            |                     |
| 5               | 64QAM      | 12      | 0         | 21.95           | 21.93              | 21.59            |                     |
| 5               | 64QAM      | 12      | 7         | 21.89           | 21.95              | 21.69            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.82           | 22.02              | 21.75            |                     |
| 5               | 64QAM      | 25      | 0         | 21.87           | 21.90              | 21.63            |                     |



| Band 12         |            |         |           |                 |                    |                  |                     |  |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|--|--|
| Ant 0           |            |         |           |                 |                    |                  |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 23060           | 23095              | 23150            |                     |  |  |
| Frequency (MHz) |            |         |           | 704             | 707.5              | 711              |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.64           | 24.61              | 24.63            | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.63           | 24.68              | 24.65            |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.76           | 24.71              | 24.70            |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.74           | 23.78              | 23.77            |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.67           | 23.80              | 23.76            | 24.7                |  |  |
| 10              | QPSK       | 25      | 25        | 23.88           | 23.85              | 23.83            |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.83           | 23.80              | 23.79            |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 24.03           | 23.97              | 23.99            |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.06           | 24.05              | 24.01            | 24.7                |  |  |
| 10              | 16QAM      | 1       | 49        | 24.12           | 24.08              | 24.07            |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.76           | 22.79              | 22.77            |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.62           | 22.80              | 22.75            |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.81           | 22.85              | 22.79            | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.83           | 22.78              | 22.76            |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.91           | 22.84              | 22.87            |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.76           | 22.99              | 22.73            |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 23.06           | 22.96              | 22.95            | 23.7                |  |  |
| 10              | 64QAM      | 25      | 0         | 21.78           | 21.80              | 21.79            |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.88           | 21.83              | 21.81            |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.82           | 21.90              | 21.84            |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.83           | 21.81              | 21.80            | 22.7                |  |  |
| Channel         |            |         |           | 23035           | 23095              | 23155            |                     |  |  |
| Frequency (MHz) |            |         |           | 701.5           | 707.5              | 713.5            |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.70           | 24.72              | 24.67            | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.72           | 24.73              | 24.71            |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.69           | 24.71              | 24.72            |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.79              | 23.78            |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.79           | 23.75              | 23.81            | 24.7                |  |  |
| 5               | QPSK       | 12      | 13        | 23.75           | 23.82              | 23.77            |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.79           | 23.76              | 23.75            |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 24.02           | 24.04              | 23.98            |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 24.03           | 24.01              | 24.02            | 24.7                |  |  |
| 5               | 16QAM      | 1       | 24        | 24.02           | 24.07              | 24.03            |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.85           | 22.83              | 22.80            |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.81           | 22.78              | 22.85            |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.83           | 22.82              | 22.80            | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.81           | 22.82              | 22.75            |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.62           | 22.73              | 22.91            |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.83           | 22.94              | 22.94            |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 22.80           | 22.98              | 22.93            | 23.7                |  |  |
| 5               | 64QAM      | 12      | 0         | 21.81           | 21.89              | 21.87            |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.88           | 21.85              | 21.88            |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.82           | 21.87              | 21.84            |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.83           | 21.79              | 21.79            | 22.7                |  |  |
| Channel         |            |         |           | 23025           | 23095              | 23165            |                     |  |  |
| Frequency (MHz) |            |         |           | 700.5           | 707.5              | 714.5            |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.75           | 24.69              | 24.72            | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.73           | 24.74              | 24.73            |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.65           | 24.71              | 24.67            |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.79           | 23.78              | 23.73            |                     |  |  |
| 3               | QPSK       | 8       | 4         | 23.78           | 23.74              | 23.77            | 24.7                |  |  |
| 3               | QPSK       | 8       | 7         | 23.73           | 23.76              | 23.75            |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.77           | 23.75              | 23.73            |                     |  |  |
| 3               | 16QAM      | 1       | 0         | 24.08           | 24.01              | 24.02            |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 24.06           | 24.08              | 24.08            | 24.7                |  |  |
| 3               | 16QAM      | 1       | 14        | 24.00           | 24.05              | 23.98            |                     |  |  |
| 3               | 16QAM      | 8       | 0         | 22.86           | 22.83              | 22.82            |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.90           | 22.83              | 22.87            |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.84           | 22.84              | 22.83            | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.80           | 22.80              | 22.75            |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.67           | 22.90              | 22.95            |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.91           | 23.01              | 22.98            |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 22.92           | 22.95              | 22.86            | 23.7                |  |  |
| 3               | 64QAM      | 8       | 0         | 21.82           | 21.81              | 21.81            |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.87           | 21.84              | 21.87            |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 21.82           | 21.85              | 21.81            |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.65           | 21.78              | 21.77            | 22.7                |  |  |
| Channel         |            |         |           | 23017           | 23095              | 23173            |                     |  |  |
| Frequency (MHz) |            |         |           | 699.7           | 707.5              | 715.3            |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.64           | 24.59              | 24.59            | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.68           | 24.67              | 24.64            |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.60           | 24.58              | 24.55            |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.67           | 24.60              | 24.62            |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.70           | 24.64              | 24.68            | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.64           | 24.67              | 24.61            |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.71           | 23.74              | 23.67            |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.99           | 23.93              | 23.96            |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 24.02           | 24.02              | 23.98            | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.92           | 23.94              | 23.91            |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.75           | 23.69              | 23.69            |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.81           | 23.75              | 23.75            |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.70           | 23.73              | 23.65            | 23.7                |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.78           | 22.80              | 22.76            |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.73           | 22.89              | 22.85            |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.90           | 22.97              | 22.89            |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.82           | 22.85              | 22.81            | 23.7                |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.68           | 22.81              | 22.82            |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.78           | 22.85              | 22.88            |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.63           | 22.83              | 22.79            |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.72           | 21.75              | 21.71            | 22.7                |  |  |

| Band 13         |            |         |           |               |                  |                |                     |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|
| Ant 0           |            |         |           |               |                  |                |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. | Power Middle Ch. | Power High Ch. | Tune-up limit (dbm) |
| Channel         |            |         |           | 23230         |                  |                | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 782           |                  |                |                     |
| 10              | QPSK       | 1       | 0         |               | 24.23            |                | 25.2                |
| 10              | QPSK       | 1       | 25        |               | 24.22            |                |                     |
| 10              | QPSK       | 1       | 49        |               | 24.35            |                |                     |
| 10              | QPSK       | 25      | 0         |               | 23.30            |                | 24.2                |
| 10              | QPSK       | 25      | 12        |               | 23.33            |                |                     |
| 10              | QPSK       | 25      | 25        |               | 23.34            |                |                     |
| 10              | QPSK       | 50      | 0         |               | 23.35            |                | 24.2                |
| 10              | 16QAM      | 1       | 0         |               | 23.56            |                |                     |
| 10              | 16QAM      | 1       | 25        |               | 23.57            |                |                     |
| 10              | 16QAM      | 1       | 49        |               | 23.54            |                | 23.2                |
| 10              | 16QAM      | 25      | 0         |               | 22.31            |                |                     |
| 10              | 16QAM      | 25      | 12        |               | 22.34            |                |                     |
| 10              | 16QAM      | 25      | 25        |               | 22.38            |                | 23.2                |
| 10              | 16QAM      | 50      | 0         |               | 22.35            |                |                     |
| 10              | 64QAM      | 1       | 0         |               | 22.30            |                |                     |
| 10              | 64QAM      | 1       | 25        |               | 22.52            |                | 22.2                |
| 10              | 64QAM      | 1       | 49        |               | 22.46            |                |                     |
| 10              | 64QAM      | 25      | 0         |               | 21.36            |                |                     |
| 10              | 64QAM      | 25      | 12        |               | 21.38            |                | 22.2                |
| 10              | 64QAM      | 25      | 25        |               | 21.37            |                |                     |
| 10              | 64QAM      | 50      | 0         |               | 21.39            |                |                     |
| Channel         |            |         |           | 23205         | 23230            | 23255          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 779.5         | 782              | 784.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.62         | 24.61            | 24.59          | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.69         | 24.74            | 24.66          |                     |
| 5               | QPSK       | 1       | 24        | 24.64         | 24.62            | 24.54          |                     |
| 5               | QPSK       | 12      | 0         | 23.71         | 23.68            | 23.65          | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.76         | 23.70            | 23.65          |                     |
| 5               | QPSK       | 12      | 13        | 23.70         | 23.69            | 23.63          |                     |
| 5               | QPSK       | 25      | 0         | 23.74         | 23.67            | 23.59          | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.63         | 23.96            | 23.90          |                     |
| 5               | 16QAM      | 1       | 12        | 24.00         | 23.98            | 23.93          |                     |
| 5               | 16QAM      | 1       | 24        | 23.99         | 23.90            | 23.89          | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.79         | 22.71            | 22.65          |                     |
| 5               | 16QAM      | 12      | 7         | 22.77         | 22.71            | 22.69          |                     |
| 5               | 16QAM      | 12      | 13        | 22.72         | 22.74            | 22.70          | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.75         | 22.71            | 22.62          |                     |
| 5               | 64QAM      | 1       | 0         | 22.69         | 22.60            | 22.19          |                     |
| 5               | 64QAM      | 1       | 12        | 22.82         | 22.09            | 22.17          | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.33         | 21.97            | 22.69          |                     |
| 5               | 64QAM      | 12      | 0         | 21.82         | 21.27            | 20.93          |                     |
| 5               | 64QAM      | 12      | 7         | 21.76         | 21.05            | 21.11          | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.44         | 20.88            | 21.53          |                     |
| 5               | 64QAM      | 25      | 0         | 21.56         | 21.03            | 21.17          |                     |

| Band 14         |            |         |           |                |                    |                  |                     |
|-----------------|------------|---------|-----------|----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dbm) |
| Channel         |            |         |           | 23330          |                    |                  |                     |
| Frequency (MHz) |            |         |           | 793            |                    |                  |                     |
| 10              | QPSK       | 1       | 0         |                | 24.75              |                  | 25.7                |
| 10              | QPSK       | 1       | 25        |                | 24.69              |                  |                     |
| 10              | QPSK       | 1       | 49        |                | 24.60              |                  |                     |
| 10              | QPSK       | 25      | 0         |                | 23.71              |                  | 24.7                |
| 10              | QPSK       | 25      | 12        |                | 23.70              |                  |                     |
| 10              | QPSK       | 25      | 25        |                | 23.73              |                  |                     |
| 10              | QPSK       | 50      | 0         |                | 23.68              |                  | 24.7                |
| 10              | 16QAM      | 1       | 0         |                | 24.08              |                  |                     |
| 10              | 16QAM      | 1       | 25        |                | 24.08              |                  |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.86              |                  | 23.7                |
| 10              | 16QAM      | 25      | 0         |                | 22.68              |                  |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.70              |                  |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.71              |                  | 23.7                |
| 10              | 16QAM      | 50      | 0         |                | 22.70              |                  |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.92              |                  |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.66              |                  | 22.7                |
| 10              | 64QAM      | 1       | 49        |                | 22.90              |                  |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.71              |                  |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.37              |                  | 22.7                |
| 10              | 64QAM      | 25      | 25        |                | 21.38              |                  |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.44              |                  |                     |
| Channel         |            |         |           | 23305          | 23330              | 23355            | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 790.5          | 793                | 795.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.64          | 24.61              | 24.62            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72          | 24.70              | 24.69            |                     |
| 5               | QPSK       | 1       | 24        | 24.70          | 24.63              | 24.56            |                     |
| 5               | QPSK       | 12      | 0         | 23.74          | 23.69              | 23.64            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.77          | 23.72              | 23.68            |                     |
| 5               | QPSK       | 12      | 13        | 23.74          | 23.72              | 23.68            |                     |
| 5               | QPSK       | 25      | 0         | 23.74          | 23.68              | 23.64            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.97          | 23.92              | 23.91            |                     |
| 5               | 16QAM      | 1       | 12        | 24.03          | 23.99              | 23.96            |                     |
| 5               | 16QAM      | 1       | 24        | 23.99          | 23.93              | 23.89            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.79          | 22.70              | 22.69            |                     |
| 5               | 16QAM      | 12      | 7         | 22.81          | 22.74              | 22.71            |                     |
| 5               | 16QAM      | 12      | 13        | 22.75          | 22.72              | 22.72            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.76          | 22.72              | 22.66            |                     |
| 5               | 64QAM      | 1       | 0         | 22.86          | 22.72              | 22.34            |                     |
| 5               | 64QAM      | 1       | 12        | 22.94          | 22.37              | 22.32            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.49          | 22.18              | 22.72            |                     |
| 5               | 64QAM      | 12      | 0         | 21.82          | 21.48              | 21.13            |                     |
| 5               | 64QAM      | 12      | 7         | 21.85          | 21.29              | 21.25            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.80          | 21.11              | 21.55            |                     |
| 5               | 64QAM      | 25      | 0         | 21.69          | 21.22              | 21.29            |                     |

| Band 17         |            |         |           |                 |                    |                  |                     |  |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|--|--|
| Ant 0           |            |         |           |                 |                    |                  |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |  |  |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.66           | 24.65              | 24.61            | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.69           | 24.70              | 24.71            |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.75           | 24.80              | 24.72            |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.73           | 23.76              | 23.76            |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.68           | 23.82              | 23.79            | 24.7                |  |  |
| 10              | QPSK       | 25      | 25        | 23.88           | 23.86              | 23.88            |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.79           | 23.78              | 23.79            |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 24.00           | 23.99              | 24.01            |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.14           | 24.11              | 24.08            | 24.7                |  |  |
| 10              | 16QAM      | 1       | 49        | 24.12           | 24.10              | 24.09            |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.74           | 22.74              | 22.73            |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.90           | 22.79              | 22.81            |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.89           | 22.90              | 22.82            | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.80           | 22.80              | 22.77            |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.65           | 22.76              | 22.88            |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.71           | 22.71              | 22.65            |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 22.97           | 22.93              | 22.76            | 23.7                |  |  |
| 10              | 64QAM      | 25      | 0         | 21.49           | 21.50              | 21.47            |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.61           | 21.54              | 21.52            |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.65           | 21.76              | 21.84            |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.62           | 21.68              | 21.62            | 22.7                |  |  |
| Channel         |            |         |           | 23765           | 23790              | 23825            |                     |  |  |
| Frequency (MHz) |            |         |           | 706.5           | 710                | 713.5            |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.66           | 24.66              | 24.66            | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.74           | 24.79              | 24.75            |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.79           | 24.79              | 24.78            |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.76           | 23.76              | 23.79            |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.85           | 23.81              | 23.82            | 24.7                |  |  |
| 5               | QPSK       | 12      | 13        | 23.83           | 23.86              | 23.83            |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.81           | 23.79              | 23.82            |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 23.99           | 23.96              | 23.99            |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 24.02           | 24.06              | 24.04            | 24.7                |  |  |
| 5               | 16QAM      | 1       | 24        | 24.13           | 24.14              | 24.10            |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.79           | 22.83              | 22.81            |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.89           | 22.86              | 22.89            |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.84           | 22.88              | 22.84            | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.65           | 22.85              | 22.87            |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.40           | 22.44              | 22.75            |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.76           | 22.60              | 22.94            |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 22.59           | 22.57              | 22.67            | 23.7                |  |  |
| 5               | 64QAM      | 12      | 0         | 21.61           | 21.45              | 21.75            |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.73           | 21.52              | 21.89            |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.65           | 21.58              | 21.88            |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.55           | 21.51              | 21.79            | 22.7                |  |  |





| Band 25         |            |         |           |                       |                          |                        |                        |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|------------------------|--|--|
| Ant 2           |            |         |           |                       |                          |                        |                        |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch.<br>/ | Power<br>Middle Ch.<br>/ | Power<br>High Ch.<br>/ | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 26140                 | 26340                    | 26590                  |                        |  |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1905                   |                        |  |  |
| 20              | QPSK       | 1       | 0         | 23.09                 | 23.12                    | 23.02                  | 25                     |  |  |
| 20              | QPSK       | 1       | 49        | 23.06                 | 23.08                    | 23.05                  |                        |  |  |
| 20              | QPSK       | 1       | 99        | 23.00                 | 23.04                    | 23.01                  |                        |  |  |
| 20              | QPSK       | 50      | 0         | 23.01                 | 23.16                    | 22.56                  | 24                     |  |  |
| 20              | QPSK       | 50      | 24        | 23.02                 | 23.28                    | 23.04                  |                        |  |  |
| 20              | QPSK       | 50      | 50        | 22.88                 | 23.24                    | 23.26                  |                        |  |  |
| 20              | QPSK       | 100     | 0         | 22.43                 | 23.24                    | 22.31                  | 24                     |  |  |
| 20              | 16QAM      | 1       | 0         | 23.09                 | 23.43                    | 22.58                  |                        |  |  |
| 20              | 16QAM      | 1       | 49        | 23.09                 | 23.42                    | 22.49                  |                        |  |  |
| 20              | 16QAM      | 1       | 99        | 22.40                 | 23.41                    | 22.22                  | 23                     |  |  |
| 20              | 16QAM      | 50      | 0         | 22.51                 | 22.72                    | 21.77                  |                        |  |  |
| 20              | 16QAM      | 50      | 24        | 22.07                 | 22.79                    | 22.07                  |                        |  |  |
| 20              | 16QAM      | 50      | 50        | 21.85                 | 22.75                    | 21.92                  | 23                     |  |  |
| 20              | 16QAM      | 100     | 0         | 21.45                 | 21.98                    | 21.45                  |                        |  |  |
| 20              | 64QAM      | 1       | 0         | 21.20                 | 21.21                    | 21.22                  | 23                     |  |  |
| 20              | 64QAM      | 1       | 49        | 21.22                 | 21.74                    | 21.24                  |                        |  |  |
| 20              | 64QAM      | 1       | 99        | 21.20                 | 22.09                    | 21.23                  |                        |  |  |
| 20              | 64QAM      | 50      | 0         | 20.89                 | 21.06                    | 21.07                  | 22                     |  |  |
| 20              | 64QAM      | 50      | 24        | 20.17                 | 21.08                    | 20.39                  |                        |  |  |
| 20              | 64QAM      | 50      | 50        | 20.02                 | 21.11                    | 20.24                  |                        |  |  |
| 20              | 64QAM      | 100     | 0         | 20.00                 | 20.03                    | 20.04                  | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 26115                 | 26340                    | 26615                  |                        |  |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1907.5                 |                        |  |  |
| 15              | QPSK       | 1       | 0         | 23.04                 | 23.11                    | 23.02                  | 25                     |  |  |
| 15              | QPSK       | 1       | 37        | 23.02                 | 23.10                    | 23.05                  |                        |  |  |
| 15              | QPSK       | 1       | 74        | 23.03                 | 23.08                    | 23.06                  |                        |  |  |
| 15              | QPSK       | 36      | 0         | 22.93                 | 23.08                    | 22.50                  | 24                     |  |  |
| 15              | QPSK       | 36      | 20        | 22.99                 | 23.22                    | 23.00                  |                        |  |  |
| 15              | QPSK       | 36      | 39        | 22.81                 | 23.15                    | 23.18                  |                        |  |  |
| 15              | QPSK       | 75      | 0         | 22.42                 | 23.24                    | 22.22                  | 24                     |  |  |
| 15              | 16QAM      | 1       | 0         | 23.08                 | 23.42                    | 22.52                  |                        |  |  |
| 15              | 16QAM      | 1       | 74        | 22.36                 | 23.40                    | 22.21                  |                        |  |  |
| 15              | 16QAM      | 36      | 0         | 22.47                 | 22.67                    | 21.74                  | 23                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.07                 | 22.76                    | 21.97                  |                        |  |  |
| 15              | 16QAM      | 36      | 39        | 21.64                 | 22.69                    | 21.85                  |                        |  |  |
| 15              | 16QAM      | 75      | 0         | 21.45                 | 21.98                    | 21.36                  | 23                     |  |  |
| 15              | 64QAM      | 1       | 0         | 21.17                 | 21.14                    | 21.18                  |                        |  |  |
| 15              | 64QAM      | 1       | 37        | 21.21                 | 21.64                    | 21.24                  |                        |  |  |
| 15              | 64QAM      | 1       | 74        | 21.16                 | 22.01                    | 21.15                  | 23                     |  |  |
| 15              | 64QAM      | 36      | 0         | 20.79                 | 20.98                    | 21.03                  |                        |  |  |
| 15              | 64QAM      | 36      | 20        | 20.07                 | 21.06                    | 20.38                  |                        |  |  |
| 15              | 64QAM      | 36      | 39        | 20.11                 | 21.04                    | 20.15                  | 22                     |  |  |
| 15              | 64QAM      | 75      | 0         | 20.15                 | 20.30                    | 20.12                  |                        |  |  |
| Channel         |            |         |           | 26090                 | 26340                    | 26640                  |                        |  |  |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1910                   |                        |  |  |
| 10              | QPSK       | 1       | 0         | 23.07                 | 23.07                    | 23.02                  | 25                     |  |  |
| 10              | QPSK       | 1       | 25        | 23.03                 | 23.02                    | 23.01                  |                        |  |  |
| 10              | QPSK       | 1       | 49        | 23.01                 | 23.00                    | 23.03                  |                        |  |  |
| 10              | QPSK       | 25      | 0         | 22.99                 | 23.10                    | 22.56                  | 24                     |  |  |
| 10              | QPSK       | 25      | 12        | 22.99                 | 23.21                    | 23.00                  |                        |  |  |
| 10              | QPSK       | 25      | 25        | 22.88                 | 23.24                    | 23.21                  |                        |  |  |
| 10              | QPSK       | 50      | 0         | 22.36                 | 23.15                    | 22.30                  | 24                     |  |  |
| 10              | 16QAM      | 1       | 0         | 23.01                 | 23.35                    | 22.50                  |                        |  |  |
| 10              | 16QAM      | 1       | 25        | 23.08                 | 23.34                    | 22.42                  |                        |  |  |
| 10              | 16QAM      | 1       | 49        | 22.36                 | 23.32                    | 22.13                  | 23                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.49                 | 22.71                    | 21.76                  |                        |  |  |
| 10              | 16QAM      | 25      | 12        | 22.02                 | 22.79                    | 22.06                  |                        |  |  |
| 10              | 16QAM      | 25      | 25        | 21.57                 | 22.70                    | 21.83                  | 23                     |  |  |
| 10              | 16QAM      | 50      | 0         | 21.37                 | 21.90                    | 21.43                  |                        |  |  |
| 10              | 64QAM      | 1       | 0         | 21.14                 | 21.11                    | 21.18                  |                        |  |  |
| 10              | 64QAM      | 1       | 25        | 21.17                 | 21.72                    | 21.17                  | 23                     |  |  |
| 10              | 64QAM      | 1       | 49        | 21.19                 | 21.99                    | 21.17                  |                        |  |  |
| 10              | 64QAM      | 25      | 0         | 20.88                 | 21.02                    | 20.98                  |                        |  |  |
| 10              | 64QAM      | 25      | 12        | 20.08                 | 20.98                    | 20.29                  | 22                     |  |  |
| 10              | 64QAM      | 25      | 25        | 20.03                 | 21.11                    | 20.21                  |                        |  |  |
| 10              | 64QAM      | 50      | 0         | 20.05                 | 20.10                    | 20.02                  |                        |  |  |
| Channel         |            |         |           | 26065                 | 26340                    | 26665                  |                        |  |  |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1912.5                 |                        |  |  |
| 5               | QPSK       | 1       | 0         | 23.06                 | 23.02                    | 23.01                  | 25                     |  |  |
| 5               | QPSK       | 1       | 12        | 23.04                 | 23.04                    | 23.00                  |                        |  |  |
| 5               | QPSK       | 1       | 24        | 23.05                 | 23.03                    | 23.02                  |                        |  |  |
| 5               | QPSK       | 12      | 0         | 22.95                 | 23.15                    | 22.51                  | 24                     |  |  |
| 5               | QPSK       | 12      | 7         | 22.93                 | 23.23                    | 23.01                  |                        |  |  |
| 5               | QPSK       | 12      | 13        | 22.78                 | 23.17                    | 23.26                  |                        |  |  |
| 5               | QPSK       | 25      | 0         | 22.34                 | 23.20                    | 22.27                  | 24                     |  |  |
| 5               | 16QAM      | 1       | 0         | 23.02                 | 23.35                    | 22.54                  |                        |  |  |
| 5               | 16QAM      | 1       | 12        | 23.07                 | 23.32                    | 22.43                  |                        |  |  |
| 5               | 16QAM      | 1       | 24        | 22.34                 | 23.37                    | 22.19                  | 23                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.47                 | 22.64                    | 21.75                  |                        |  |  |
| 5               | 16QAM      | 12      | 7         | 22.04                 | 22.76                    | 22.00                  |                        |  |  |
| 5               | 16QAM      | 12      | 13        | 21.59                 | 22.68                    | 21.92                  | 23                     |  |  |
| 5               | 16QAM      | 25      | 0         | 21.41                 | 21.91                    | 21.42                  |                        |  |  |
| 5               | 64QAM      | 1       | 0         | 21.13                 | 21.16                    | 21.14                  |                        |  |  |
| 5               | 64QAM      | 1       | 12        | 21.13                 | 21.73                    | 21.24                  | 23                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.12                 | 22.09                    | 21.14                  |                        |  |  |
| 5               | 64QAM      | 12      | 0         | 20.84                 | 20.99                    | 21.07                  |                        |  |  |
| 5               | 64QAM      | 12      | 7         | 20.17                 | 21.06                    | 20.36                  | 22                     |  |  |
| 5               | 64QAM      | 12      | 13        | 20.08                 | 21.10                    | 20.16                  |                        |  |  |
| 5               | 64QAM      | 25      | 0         | 20.02                 | 20.01                    | 20.00                  |                        |  |  |
| Channel         |            |         |           | 26055                 | 26340                    | 26675                  |                        |  |  |
| Frequency (MHz) |            |         |           | 1851.5                | 1880                     | 1913.5                 |                        |  |  |
| 3               | QPSK       | 1       | 0         | 23.03                 | 23.09                    | 23.04                  | 25                     |  |  |
| 3               | QPSK       | 1       | 8         | 23.01                 | 23.07                    | 23.02                  |                        |  |  |
| 3               | QPSK       | 1       | 14        | 23.05                 | 23.04                    | 23.00                  |                        |  |  |
| 3               | QPSK       | 8       | 0         | 22.94                 | 23.06                    | 22.47                  | 24                     |  |  |
| 3               | QPSK       | 8       | 4         | 22.95                 | 23.20                    | 22.98                  |                        |  |  |
| 3               | QPSK       | 8       | 7         | 22.85                 | 23.23                    | 23.22                  |                        |  |  |
| 3               | QPSK       | 15      | 0         | 22.36                 | 23.21                    | 22.24                  | 24                     |  |  |
| 3               | 16QAM      | 1       | 0         | 23.01                 | 23.40                    | 22.52                  |                        |  |  |
| 3               | 16QAM      | 1       | 8         | 23.04                 | 23.36                    | 22.46                  |                        |  |  |
| 3               | 16QAM      | 1       | 14        | 22.30                 | 23.32                    | 22.14                  | 24                     |  |  |
| 3               | 16QAM      | 8       | 0         | 22.51                 | 22.64                    | 21.71                  |                        |  |  |
| 3               | 16QAM      | 8       | 4         | 21.98                 | 22.79                    | 22.05                  |                        |  |  |
| 3               | 16QAM      | 8       | 7         | 21.62                 | 22.72                    | 21.91                  | 23                     |  |  |
| 3               | 16QAM      | 15      | 0         | 21.35                 | 21.94                    | 21.37                  |                        |  |  |
| 3               | 64QAM      | 1       | 0         | 21.11                 | 21.19                    | 21.18                  |                        |  |  |
| 3               | 64QAM      | 1       | 8         | 21.12                 | 21.68                    | 21.17                  | 23                     |  |  |
| 3               | 64QAM      | 1       | 14        | 21.17                 | 22.02                    | 21.15                  |                        |  |  |
| 3               | 64QAM      | 8       | 0         | 20.89                 | 21.03                    | 21.00                  |                        |  |  |
| 3               | 64QAM      | 8       | 4         | 20.13                 | 21.02                    | 20.31                  | 22                     |  |  |
| 3               | 64QAM      | 8       | 7         | 20.03                 | 21.02                    | 20.15                  |                        |  |  |
| 3               | 64QAM      | 15      | 0         | 20.05                 | 20.00                    | 20.05                  |                        |  |  |
| Channel         |            |         |           | 26047                 | 26340                    | 26683                  |                        |  |  |
| Frequency (MHz) |            |         |           | 1850.7                | 1880                     | 1914.3                 |                        |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.02                 | 23.03                    | 23.02                  | 25                     |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.05                 | 23.01                    | 23.00                  |                        |  |  |
| 1.4             | QPSK       | 1       | 5         | 23.04                 | 23.00                    | 23.06                  |                        |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.02                 | 23.16                    | 23.00                  | 24                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.01                 | 23.19                    | 23.03                  |                        |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.05                 | 23.15                    | 23.24                  |                        |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.34                 | 23.18                    | 22.26                  | 24                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.02                 | 23.35                    | 22.57                  |                        |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.08                 | 23.34                    | 22.44                  |                        |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.28                 | 23.33                    | 22.13                  | 24                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.44                 | 22.70                    | 22.01                  |                        |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.06                 | 22.70                    | 22.02                  |                        |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.00                 | 22.69                    | 22.03                  | 23                     |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.45                 | 21.88                    | 21.41                  |                        |  |  |
| 1.4             | 16QAM      | 6       | 1         | 21.19                 | 21.83                    | 21.19                  |                        |  |  |
| 1.4             | 16QAM      | 1       | 3         | 21.22                 | 21.88                    | 21.19                  | 23                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.20                 | 22.02                    | 21.18                  |                        |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.08                 | 21.95                    | 21.03                  |                        |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.10                 | 21.11                    | 21.10                  | 23                     |  |  |
| 1.4             | 64QAM      | 3       | 5         | 21.10                 | 21.11                    | 21.10                  |                        |  |  |
| 1.4             | 64QAM      | 3       | 7         | 21.10                 | 21.11                    | 21.10                  |                        |  |  |



| Band 26         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26745           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 831.5           | 831.5              | 841.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.78           | 24.52              | 24.57            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.46           | 24.51              | 24.50            |                     |
| 15              | QPSK       | 1       | 74        | 24.49           | 24.48              | 24.27            |                     |
| 15              | QPSK       | 36      | 0         | 23.67           | 23.65              | 23.65            |                     |
| 15              | QPSK       | 36      | 20        | 23.66           | 23.61              | 23.63            | 24.7                |
| 15              | QPSK       | 36      | 39        | 23.60           | 23.63              | 23.64            |                     |
| 15              | QPSK       | 75      | 0         | 23.68           | 23.60              | 23.62            |                     |
| 15              | 16QAM      | 1       | 0         | 23.93           | 23.86              | 23.88            |                     |
| 15              | 16QAM      | 1       | 37        | 23.82           | 23.86              | 23.85            | 24.7                |
| 15              | 16QAM      | 1       | 74        | 23.81           | 23.83              | 23.62            |                     |
| 15              | 16QAM      | 36      | 0         | 22.63           | 22.66              | 22.67            |                     |
| 15              | 16QAM      | 36      | 20        | 22.65           | 22.61              | 22.60            |                     |
| 15              | 16QAM      | 36      | 39        | 22.59           | 22.65              | 22.62            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.67           | 22.62              | 22.65            |                     |
| 15              | 64QAM      | 1       | 0         | 22.78           | 22.72              | 22.72            |                     |
| 15              | 64QAM      | 1       | 37        | 22.70           | 22.80              | 22.76            |                     |
| 15              | 64QAM      | 1       | 74        | 22.69           | 22.72              | 22.70            | 23.7                |
| 15              | 64QAM      | 36      | 0         | 21.68           | 21.69              | 21.72            |                     |
| 15              | 64QAM      | 36      | 20        | 21.69           | 21.63              | 21.65            |                     |
| 15              | 64QAM      | 36      | 39        | 21.65           | 21.71              | 21.58            |                     |
| 15              | 64QAM      | 75      | 0         | 21.69           | 21.63              | 21.63            | 22.7                |
| Channel         |            |         |           | 26740           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 819             | 831.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.72           | 24.59              | 24.60            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.57           | 24.55              | 24.59            |                     |
| 10              | QPSK       | 1       | 49        | 24.60           | 24.64              | 24.38            |                     |
| 10              | QPSK       | 25      | 0         | 23.74           | 23.66              | 23.68            |                     |
| 10              | QPSK       | 25      | 12        | 23.76           | 23.66              | 23.65            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.65           | 23.68              | 23.67            |                     |
| 10              | QPSK       | 50      | 0         | 23.70           | 23.65              | 23.66            |                     |
| 10              | 16QAM      | 1       | 0         | 24.07           | 23.96              | 23.96            |                     |
| 10              | 16QAM      | 1       | 25        | 23.94           | 24.01              | 23.97            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 23.97           | 24.02              | 23.73            |                     |
| 10              | 16QAM      | 25      | 0         | 22.74           | 22.69              | 22.66            |                     |
| 10              | 16QAM      | 25      | 12        | 22.76           | 22.71              | 22.67            |                     |
| 10              | 16QAM      | 25      | 25        | 22.64           | 22.63              | 22.63            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.72           | 22.66              | 22.63            |                     |
| 10              | 64QAM      | 1       | 0         | 22.84           | 22.78              | 22.88            |                     |
| 10              | 64QAM      | 1       | 25        | 22.90           | 22.93              | 22.93            |                     |
| 10              | 64QAM      | 1       | 49        | 22.89           | 22.91              | 21.83            | 22.7                |
| 10              | 64QAM      | 25      | 0         | 21.80           | 21.71              | 21.72            |                     |
| 10              | 64QAM      | 25      | 12        | 21.76           | 21.69              | 21.72            |                     |
| 10              | 64QAM      | 25      | 25        | 21.68           | 21.70              | 21.21            |                     |
| 10              | 64QAM      | 50      | 0         | 21.72           | 21.65              | 21.50            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26715           | 26865              | 27015            |                     |
| Frequency (MHz) |            |         |           | 816.5           | 831.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.75           | 24.61              | 24.68            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72           | 24.63              | 24.47            |                     |
| 5               | QPSK       | 1       | 24        | 24.56           | 24.64              | 24.43            |                     |
| 5               | QPSK       | 12      | 0         | 23.79           | 23.72              | 23.74            |                     |
| 5               | QPSK       | 12      | 7         | 23.60           | 23.72              | 23.57            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.71           | 23.67              | 23.31            |                     |
| 5               | QPSK       | 25      | 0         | 23.76           | 23.67              | 23.64            |                     |
| 5               | 16QAM      | 1       | 0         | 24.09           | 23.94              | 23.99            |                     |
| 5               | 16QAM      | 1       | 12        | 24.00           | 23.97              | 23.85            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.91           | 24.01              | 23.71            |                     |
| 5               | 16QAM      | 12      | 0         | 22.84           | 22.72              | 22.73            |                     |
| 5               | 16QAM      | 12      | 7         | 22.81           | 22.76              | 22.71            |                     |
| 5               | 16QAM      | 12      | 13        | 22.73           | 22.68              | 22.44            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.78           | 22.66              | 22.72            |                     |
| 5               | 64QAM      | 1       | 0         | 22.69           | 22.90              | 22.83            |                     |
| 5               | 64QAM      | 1       | 12        | 22.90           | 22.88              | 22.03            |                     |
| 5               | 64QAM      | 1       | 24        | 22.61           | 22.66              | 21.86            | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.63           | 21.78              | 21.45            |                     |
| 5               | 64QAM      | 12      | 7         | 21.84           | 21.81              | 21.00            |                     |
| 5               | 64QAM      | 12      | 13        | 21.74           | 21.78              | 20.80            |                     |
| 5               | 64QAM      | 25      | 0         | 21.77           | 21.68              | 20.99            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26705           | 26865              | 27025            |                     |
| Frequency (MHz) |            |         |           | 815.5           | 831.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.72           | 24.62              | 24.62            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.75           | 24.69              | 24.16            |                     |
| 3               | QPSK       | 1       | 14        | 24.63           | 24.66              | 24.26            |                     |
| 3               | QPSK       | 8       | 0         | 23.83           | 23.68              | 23.39            |                     |
| 3               | QPSK       | 8       | 4         | 23.77           | 23.72              | 23.28            | 24.7                |
| 3               | QPSK       | 8       | 7         | 23.74           | 23.70              | 23.29            |                     |
| 3               | QPSK       | 15      | 0         | 23.78           | 23.67              | 23.30            |                     |
| 3               | 16QAM      | 1       | 0         | 24.09           | 23.91              | 23.81            |                     |
| 3               | 16QAM      | 1       | 8         | 24.06           | 24.06              | 23.47            | 24.7                |
| 3               | 16QAM      | 1       | 14        | 23.95           | 23.95              | 23.55            |                     |
| 3               | 16QAM      | 8       | 0         | 22.86           | 22.77              | 22.54            |                     |
| 3               | 16QAM      | 8       | 4         | 22.88           | 22.77              | 22.42            |                     |
| 3               | 16QAM      | 8       | 7         | 22.78           | 22.76              | 22.45            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.78           | 22.70              | 22.47            |                     |
| 3               | 64QAM      | 1       | 0         | 22.72           | 22.63              | 22.00            |                     |
| 3               | 64QAM      | 1       | 8         | 23.03           | 22.95              | 21.88            |                     |
| 3               | 64QAM      | 1       | 14        | 22.86           | 22.90              | 21.83            | 22.7                |
| 3               | 64QAM      | 8       | 0         | 21.79           | 21.74              | 20.85            |                     |
| 3               | 64QAM      | 8       | 4         | 21.88           | 21.81              | 20.77            |                     |
| 3               | 64QAM      | 8       | 7         | 21.61           | 21.72              | 20.92            |                     |
| 3               | 64QAM      | 15      | 0         | 21.81           | 21.67              | 20.86            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26697           | 26865              | 27033            |                     |
| Frequency (MHz) |            |         |           | 814.7           | 831.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.68           | 24.52              | 24.13            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.71           | 24.63              | 24.26            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.61           | 24.55              | 24.29            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59           | 24.55              | 24.17            |                     |
| 1.4             | QPSK       | 3       | 1         | 24.74           | 24.58              | 24.22            | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.67           | 24.55              | 24.37            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.71           | 23.63              | 23.29            |                     |
| 1.4             | 16QAM      | 1       | 0         | 24.01           | 23.86              | 23.45            |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.04           | 23.98              | 23.59            | 24.7                |
| 1.4             | 16QAM      | 1       | 5         | 23.93           | 23.86              | 23.65            |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.75           | 23.65              | 23.27            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.79           | 23.65              | 23.32            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.71           | 23.67              | 23.46            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.82           | 22.75              | 22.46            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.74           | 22.76              | 21.86            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.88           | 22.88              | 21.90            |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.86           | 22.76              | 21.85            | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.76           | 22.73              | 21.85            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.82           | 22.82              | 21.93            |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.84           | 22.79              | 21.86            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.65           | 21.68              | 20.87            | 22.7                |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 2           |            |         |           |                |                   |                 |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dbm) |
| Channel         |            |         |           | 27710          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 2310           |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 23.02             |                 | 23.7                |
| 10              | QPSK       | 1       | 25        |                | 23.01             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 22.92             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 21.96             |                 | 22.7                |
| 10              | QPSK       | 25      | 12        |                | 22.00             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 22.11             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 22.00             |                 | 22.7                |
| 10              | 16QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 22.28             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 22.31             |                 | 21.7                |
| 10              | 16QAM      | 25      | 0         |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 21.11             |                 | 21.7                |
| 10              | 16QAM      | 50      | 0         |                | 20.98             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 21.18             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 21.21             |                 | 21.7                |
| 10              | 64QAM      | 1       | 49        |                | 21.22             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.98             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 20.04             |                 | 20.7                |
| 10              | 64QAM      | 25      | 25        |                | 20.13             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 20.02             |                 |                     |
| Channel         |            |         |           | 27885          | 27710             | 27735           | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 2307.5         | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 22.88          | 22.88             | 22.88           | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.99          | 23.01             | 22.99           |                     |
| 5               | QPSK       | 1       | 24        | 23.01          | 23.00             | 22.96           |                     |
| 5               | QPSK       | 12      | 0         | 22.02          | 21.96             | 21.97           | 22.7                |
| 5               | QPSK       | 12      | 7         | 22.08          | 22.07             | 22.05           |                     |
| 5               | QPSK       | 12      | 13        | 22.06          | 22.06             | 22.03           |                     |
| 5               | QPSK       | 25      | 0         | 22.04          | 21.99             | 22.00           | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.17          | 22.16             | 22.19           |                     |
| 5               | 16QAM      | 1       | 12        | 22.26          | 22.25             | 22.21           |                     |
| 5               | 16QAM      | 1       | 24        | 22.32          | 22.32             | 22.30           | 21.7                |
| 5               | 16QAM      | 12      | 0         | 21.06          | 21.01             | 21.03           |                     |
| 5               | 16QAM      | 12      | 7         | 21.09          | 21.09             | 21.09           |                     |
| 5               | 16QAM      | 12      | 13        | 21.07          | 21.10             | 21.05           | 21.7                |
| 5               | 16QAM      | 25      | 0         | 21.05          | 21.02             | 21.02           |                     |
| 5               | 64QAM      | 1       | 0         | 21.11          | 21.14             | 21.15           |                     |
| 5               | 64QAM      | 1       | 12        | 21.19          | 21.20             | 21.16           | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.25          | 21.22             | 21.22           |                     |
| 5               | 64QAM      | 12      | 0         | 20.09          | 20.02             | 20.07           |                     |
| 5               | 64QAM      | 12      | 7         | 20.15          | 20.15             | 20.10           | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.11          | 20.11             | 20.10           |                     |
| 5               | 64QAM      | 25      | 0         | 20.10          | 20.01             | 20.03           |                     |



| Band 66         |            |         |           |                 |                    |                  |                     |  |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|--|--|
| Ant 2           |            |         |           |                 |                    |                  |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 132072          | 132322             | 132572           |                     |  |  |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |  |  |
| 20              | QPSK       | 1       | 0         | 23.72           | 23.65              | 23.50            | 24.9                |  |  |
| 20              | QPSK       | 1       | 49        | 23.60           | 23.46              | 23.35            |                     |  |  |
| 20              | QPSK       | 1       | 99        | 23.63           | 23.41              | 23.28            |                     |  |  |
| 20              | QPSK       | 50      | 0         | 23.68           | 23.47              | 23.37            | 24.7                |  |  |
| 20              | QPSK       | 50      | 24        | 23.64           | 23.46              | 23.36            |                     |  |  |
| 20              | QPSK       | 50      | 50        | 23.59           | 23.39              | 23.35            |                     |  |  |
| 20              | QPSK       | 100     | 0         | 23.64           | 23.42              | 23.34            | 24.7                |  |  |
| 20              | 16QAM      | 1       | 0         | 23.90           | 23.75              | 23.69            |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 23.75           | 23.58              | 23.50            |                     |  |  |
| 20              | 16QAM      | 1       | 99        | 23.80           | 23.52              | 23.44            | 23.7                |  |  |
| 20              | 16QAM      | 50      | 0         | 22.86           | 22.44              | 22.42            |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.63           | 22.44              | 22.36            |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 22.80           | 22.40              | 22.37            | 23.7                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.62           | 22.46              | 22.38            |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 22.74           | 22.18              | 22.51            | 23.7                |  |  |
| 20              | 64QAM      | 1       | 49        | 22.61           | 22.47              | 22.38            |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 22.86           | 22.46              | 22.35            |                     |  |  |
| 20              | 64QAM      | 50      | 0         | 21.69           | 21.29              | 21.42            | 22.7                |  |  |
| 20              | 64QAM      | 50      | 24        | 21.67           | 21.47              | 21.37            |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 21.62           | 21.42              | 21.39            |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.66           | 21.47              | 21.34            |                     |  |  |
| Channel         |            |         |           | 132047          | 132322             | 132597           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1717.5          | 1745               | 1772.5           |                     |  |  |
| 15              | QPSK       | 1       | 0         | 23.71           | 23.61              | 23.48            | 24.9                |  |  |
| 15              | QPSK       | 1       | 37        | 23.64           | 23.41              | 23.38            |                     |  |  |
| 15              | QPSK       | 1       | 74        | 23.69           | 23.49              | 23.36            |                     |  |  |
| 15              | QPSK       | 36      | 0         | 23.58           | 23.43              | 23.38            | 24.7                |  |  |
| 15              | QPSK       | 36      | 20        | 23.65           | 23.40              | 23.39            |                     |  |  |
| 15              | QPSK       | 36      | 39        | 23.60           | 23.38              | 23.36            |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.62           | 23.43              | 23.34            | 24.7                |  |  |
| 15              | 16QAM      | 1       | 0         | 23.81           | 23.69              | 23.63            |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 23.77           | 23.59              | 23.53            |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 23.86           | 23.58              | 23.47            | 23.7                |  |  |
| 15              | 16QAM      | 36      | 0         | 22.57           | 22.42              | 22.36            |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.64           | 22.45              | 22.39            |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 22.62           | 22.42              | 22.37            | 23.7                |  |  |
| 15              | 16QAM      | 75      | 0         | 22.64           | 22.46              | 22.32            |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 22.72           | 22.26              | 22.50            |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 22.64           | 22.45              | 22.47            | 23.7                |  |  |
| 15              | 64QAM      | 1       | 74        | 22.72           | 22.48              | 22.41            |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 21.60           | 21.32              | 21.41            |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 21.63           | 21.46              | 21.40            | 22.7                |  |  |
| 15              | 64QAM      | 36      | 39        | 21.64           | 21.42              | 21.38            |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 21.63           | 21.46              | 21.33            |                     |  |  |
| Channel         |            |         |           | 132022          | 132322             | 132622           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1715            | 1745               | 1775             |                     |  |  |
| 10              | QPSK       | 1       | 0         | 23.61           | 23.51              | 23.44            | 24.9                |  |  |
| 10              | QPSK       | 1       | 25        | 23.63           | 23.31              | 23.32            |                     |  |  |
| 10              | QPSK       | 1       | 49        | 23.66           | 23.46              | 23.30            |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.52           | 23.34              | 23.28            | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.62           | 23.39              | 23.31            |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.53           | 23.33              | 23.36            |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.58           | 23.41              | 23.28            | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 23.75           | 23.59              | 23.63            |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 23.71           | 23.52              | 23.49            |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 23.79           | 23.56              | 23.47            | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.47           | 22.36              | 22.33            |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.54           | 22.41              | 22.35            |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.57           | 22.42              | 22.33            | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.54           | 22.46              | 22.25            |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.63           | 22.18              | 22.50            |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.58           | 22.41              | 22.42            | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.68           | 22.41              | 22.36            |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.53           | 21.30              | 21.33            |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.57           | 21.39              | 21.34            | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 21.56           | 21.37              | 21.36            |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.58           | 21.40              | 21.29            |                     |  |  |
| Channel         |            |         |           | 131997          | 132322             | 132647           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1712.5          | 1745               | 1777.5           |                     |  |  |
| 5               | QPSK       | 1       | 0         | 23.70           | 23.60              | 23.46            | 24.9                |  |  |
| 5               | QPSK       | 1       | 12        | 23.65           | 23.40              | 23.38            |                     |  |  |
| 5               | QPSK       | 1       | 24        | 23.62           | 23.43              | 23.30            |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.53           | 23.34              | 23.35            | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.58           | 23.40              | 23.30            |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.57           | 23.28              | 23.35            |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.55           | 23.35              | 23.28            | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 23.76           | 23.66              | 23.56            |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.69           | 23.59              | 23.45            |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 23.80           | 23.57              | 23.43            | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.54           | 22.38              | 22.31            |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.62           | 22.41              | 22.34            |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.61           | 22.37              | 22.33            | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.63           | 22.44              | 22.30            |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.63           | 22.25              | 22.46            |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.63           | 22.38              | 22.38            | 23.7                |  |  |
| 5               | 64QAM      | 1       | 24        | 22.65           | 22.44              | 22.41            |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.55           | 21.26              | 21.34            |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.53           | 21.46              | 21.38            | 22.7                |  |  |
| 5               | 64QAM      | 12      | 13        | 21.61           | 21.37              | 21.28            |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.62           | 21.42              | 21.28            |                     |  |  |
| Channel         |            |         |           | 131987          | 132322             | 132657           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1711.5          | 1745               | 1778.5           |                     |  |  |
| 3               | QPSK       | 1       | 0         | 23.62           | 23.54              | 23.44            | 24.9                |  |  |
| 3               | QPSK       | 1       | 8         | 23.62           | 23.32              | 23.37            |                     |  |  |
| 3               | QPSK       | 1       | 14        | 23.69           | 23.47              | 23.29            |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.51           | 23.37              | 23.34            | 24.7                |  |  |
| 3               | QPSK       | 8       | 4         | 23.63           | 23.39              | 23.30            |                     |  |  |
| 3               | QPSK       | 8       | 7         | 23.60           | 23.30              | 23.36            |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.62           | 23.41              | 23.33            | 24.7                |  |  |
| 3               | 16QAM      | 1       | 0         | 23.77           | 23.65              | 23.60            |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 23.67           | 23.59              | 23.52            |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 23.86           | 23.54              | 23.47            | 23.7                |  |  |
| 3               | 16QAM      | 8       | 0         | 22.50           | 22.34              | 22.29            |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.56           | 22.40              | 22.29            |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.60           | 22.38              | 22.33            | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.63           | 22.37              | 22.22            |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.66           | 22.24              | 22.43            |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.61           | 22.37              | 22.46            | 23.7                |  |  |
| 3               | 64QAM      | 1       | 14        | 22.69           | 22.43              | 22.31            |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 21.50           | 21.32              | 21.34            |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.63           | 21.44              | 21.33            | 22.7                |  |  |
| 3               | 64QAM      | 8       | 7         | 21.54           | 21.34              | 21.32            |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.53           | 21.42              | 21.24            |                     |  |  |
| Channel         |            |         |           | 131979          | 132322             | 132665           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1710.7          | 1745               | 1779.3           |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.62           | 23.59              | 23.46            | 24.9                |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.69           | 23.51              | 23.53            |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 23.81           | 23.49              | 23.46            |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.71           | 23.52              | 23.49            | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.71           | 23.57              | 23.52            |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.66           | 23.49              | 23.46            |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.58           | 23.35              | 23.34            | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.82           | 23.60              | 23.60            |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.86           | 23.69              | 23.65            |                     |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.95           | 23.64              | 23.61            | 24.7                |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.59           | 23.41              | 23.38            |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.68           | 23.47              | 23.44            |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.56           | 23.40              | 23.38            | 24.7                |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.74           | 22.45              | 22.40            |                     |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.75           | 22.57              | 22.55            |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.82           | 22.52              | 22.58            | 23.7                |  |  |
| 1.4             | 16QAM      | 1       | 5         | 22.72           | 22.55              | 22.51            |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.70           | 22.52              | 22.48            |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.74           | 22.59              | 22.52            | 23.7                |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.72           | 22.49              | 22.46            |                     |  |  |



| Band 71         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222          | 133332             | 133392           |                     |
| Frequency (MHz) |            |         |           | 673             | 683                | 688              |                     |
| 20              | QPSK       | 1       | 0         | 24.77           | 24.67              | 24.68            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.65           | 24.65              | 24.65            |                     |
| 20              | QPSK       | 1       | 99        | 24.68           | 24.66              | 24.61            |                     |
| 20              | QPSK       | 50      | 0         | 23.76           | 23.76              | 23.72            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.80           | 23.74              | 23.75            |                     |
| 20              | QPSK       | 50      | 50        | 23.84           | 23.78              | 23.75            |                     |
| 20              | QPSK       | 100     | 0         | 23.79           | 23.71              | 23.77            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.06           | 23.96              | 24.00            |                     |
| 20              | 16QAM      | 1       | 49        | 24.01           | 24.03              | 24.04            |                     |
| 20              | 16QAM      | 1       | 99        | 24.03           | 24.01              | 23.95            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.77           | 22.75              | 22.75            |                     |
| 20              | 16QAM      | 50      | 24        | 22.82           | 22.77              | 22.73            |                     |
| 20              | 16QAM      | 50      | 50        | 22.82           | 22.77              | 22.78            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.79           | 22.73              | 22.78            |                     |
| 20              | 64QAM      | 1       | 0         | 22.04           | 22.83              | 22.82            | 23.7                |
| 20              | 64QAM      | 1       | 49        | 22.63           | 22.90              | 22.29            |                     |
| 20              | 64QAM      | 1       | 99        | 22.04           | 22.89              | 22.87            |                     |
| 20              | 64QAM      | 50      | 0         | 21.00           | 21.70              | 21.40            | 22.7                |
| 20              | 64QAM      | 50      | 24        | 21.30           | 21.64              | 21.57            |                     |
| 20              | 64QAM      | 50      | 50        | 21.84           | 21.60              | 21.74            |                     |
| 20              | 64QAM      | 100     | 0         | 21.53           | 21.76              | 21.80            | Tune-up limit (dBm) |
| Channel         |            |         |           | 133197          | 133297             | 133397           |                     |
| Frequency (MHz) |            |         |           | 670.5           | 680.5              | 690.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.74           | 24.65              | 24.63            |                     |
| 15              | QPSK       | 1       | 37        | 24.02           | 24.66              | 24.61            | 25.7                |
| 15              | QPSK       | 1       | 74        | 24.05           | 24.68              | 24.64            |                     |
| 15              | QPSK       | 36      | 0         | 23.73           | 23.71              | 23.69            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.80           | 23.73              | 23.78            |                     |
| 15              | QPSK       | 36      | 39        | 23.73           | 23.76              | 23.74            |                     |
| 15              | QPSK       | 75      | 0         | 23.81           | 23.74              | 23.68            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.05           | 24.01              | 23.98            |                     |
| 15              | 16QAM      | 1       | 37        | 23.95           | 24.02              | 24.00            |                     |
| 15              | 16QAM      | 1       | 74        | 23.97           | 24.00              | 23.98            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.76           | 22.75              | 22.71            |                     |
| 15              | 16QAM      | 36      | 20        | 22.79           | 22.74              | 22.79            |                     |
| 15              | 16QAM      | 36      | 39        | 22.77           | 22.79              | 22.75            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.63           | 22.73              | 22.70            |                     |
| 15              | 64QAM      | 1       | 0         | 22.02           | 22.43              | 22.76            |                     |
| 15              | 64QAM      | 1       | 37        | 21.86           | 22.94              | 22.88            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.88           | 22.60              | 22.84            |                     |
| 15              | 64QAM      | 36      | 0         | 20.97           | 21.77              | 21.44            |                     |
| 15              | 64QAM      | 36      | 20        | 20.94           | 21.78              | 21.81            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.48           | 21.56              | 21.78            |                     |
| 15              | 64QAM      | 75      | 0         | 21.29           | 21.75              | 21.67            |                     |
| Channel         |            |         |           | 133172          | 133272             | 133422           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668             | 678                | 693              |                     |
| 10              | QPSK       | 1       | 0         | 24.76           | 24.64              | 24.66            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.61           | 24.62              | 24.63            |                     |
| 10              | QPSK       | 1       | 49        | 24.66           | 24.71              | 24.62            |                     |
| 10              | QPSK       | 25      | 0         | 23.78           | 23.71              | 23.69            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.79           | 23.82              | 23.70            |                     |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.78              | 23.74            |                     |
| 10              | QPSK       | 50      | 0         | 23.80           | 23.81              | 23.71            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.10           | 24.02              | 24.04            |                     |
| 10              | 16QAM      | 1       | 25        | 23.98           | 24.06              | 24.00            |                     |
| 10              | 16QAM      | 1       | 49        | 23.98           | 24.07              | 23.96            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.76           | 22.70              | 22.68            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.81              | 22.68            |                     |
| 10              | 16QAM      | 25      | 25        | 22.65           | 22.77              | 22.73            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.79           | 22.80              | 22.69            |                     |
| 10              | 64QAM      | 1       | 0         | 21.80           | 22.30              | 22.77            |                     |
| 10              | 64QAM      | 1       | 25        | 22.01           | 22.95              | 22.95            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.14           | 22.96              | 22.45            |                     |
| 10              | 64QAM      | 25      | 0         | 20.82           | 21.71              | 21.71            |                     |
| 10              | 64QAM      | 25      | 12        | 20.84           | 21.84              | 21.76            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.71           | 21.81              | 21.64            |                     |
| 10              | 64QAM      | 50      | 0         | 20.83           | 21.77              | 21.69            |                     |
| Channel         |            |         |           | 133147          | 133247             | 133447           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5           | 675.5              | 695.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.57           | 24.69              | 24.72            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.71           | 24.65              | 24.70            |                     |
| 5               | QPSK       | 1       | 24        | 24.70           | 24.68              | 24.63            |                     |
| 5               | QPSK       | 12      | 0         | 23.73           | 23.76              | 23.74            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.84           | 23.79              | 23.76            |                     |
| 5               | QPSK       | 12      | 13        | 23.76           | 23.76              | 23.70            |                     |
| 5               | QPSK       | 25      | 0         | 23.76           | 23.76              | 23.68            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.75           | 24.01              | 24.02            |                     |
| 5               | 16QAM      | 1       | 12        | 23.97           | 24.03              | 23.97            |                     |
| 5               | 16QAM      | 1       | 24        | 23.95           | 24.02              | 23.93            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64           | 22.80              | 22.78            |                     |
| 5               | 16QAM      | 12      | 7         | 22.86           | 22.80              | 22.78            |                     |
| 5               | 16QAM      | 12      | 13        | 22.77           | 22.77              | 22.70            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.69           | 22.81              | 22.70            |                     |
| 5               | 64QAM      | 1       | 0         | 21.74           | 22.06              | 22.91            |                     |
| 5               | 64QAM      | 1       | 12        | 21.79           | 22.94              | 22.70            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.96           | 22.96              | 22.25            |                     |
| 5               | 64QAM      | 12      | 0         | 20.82           | 21.49              | 21.68            |                     |
| 5               | 64QAM      | 12      | 7         | 21.00           | 21.86              | 21.73            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.99           | 21.81              | 21.61            |                     |
| 5               | 64QAM      | 25      | 0         | 20.76           | 21.59              | 21.48            |                     |



| Band 2          |            |         |           |                |                   |                 |                     |      |  |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|------|--|
| Ant 0           |            |         |           |                |                   |                 |                     |      |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |      |  |
| Channel         |            |         |           | 18700          | 18800             | 18900           |                     |      |  |
| Frequency (MHz) |            |         |           | 18680          | 1880              | 1900            |                     |      |  |
| 20              | QPSK       | 1       | 0         | 18.28          | 18.29             | 18.26           | 20.2                |      |  |
| 20              | QPSK       | 1       | 49        | 18.22          | 18.24             | 18.20           |                     |      |  |
| 20              | QPSK       | 1       | 99        | 18.20          | 18.23             | 18.22           |                     |      |  |
| 20              | QPSK       | 50      | 0         | 18.33          | 18.31             | 18.26           | 20.2                |      |  |
| 20              | QPSK       | 50      | 24        | 18.40          | 18.33             | 18.34           |                     |      |  |
| 20              | QPSK       | 50      | 50        | 18.35          | 18.40             | 18.35           |                     |      |  |
| 20              | QPSK       | 100     | 0         | 18.41          | 18.32             | 18.37           | 20.2                |      |  |
| 20              | 16QAM      | 1       | 0         | 18.58          | 18.62             | 18.55           |                     |      |  |
| 20              | 16QAM      | 1       | 49        | 18.55          | 18.53             | 18.47           |                     |      |  |
| 20              | 16QAM      | 1       | 99        | 18.45          | 18.50             | 18.46           | 20.2                |      |  |
| 20              | 16QAM      | 50      | 0         | 18.32          | 18.30             | 18.28           |                     |      |  |
| 20              | 16QAM      | 50      | 24        | 18.39          | 18.33             | 18.36           |                     |      |  |
| 20              | 16QAM      | 50      | 50        | 18.38          | 18.37             | 18.35           | 20.2                |      |  |
| 20              | 16QAM      | 100     | 0         | 18.38          | 18.29             | 18.35           |                     |      |  |
| 20              | 64QAM      | 1       | 0         | 18.51          | 18.48             | 18.46           |                     | 20.2 |  |
| 20              | 64QAM      | 1       | 49        | 18.46          | 18.45             | 18.44           |                     |      |  |
| 20              | 64QAM      | 1       | 99        | 18.39          | 18.46             | 18.42           |                     |      |  |
| 20              | 64QAM      | 50      | 0         | 18.35          | 18.35             | 18.30           | 20.2                |      |  |
| 20              | 64QAM      | 50      | 24        | 18.43          | 18.37             | 18.40           |                     |      |  |
| 20              | 64QAM      | 50      | 50        | 18.39          | 18.41             | 18.38           |                     |      |  |
| 20              | 64QAM      | 100     | 0         | 18.40          | 18.32             | 18.38           | Tune-up limit (dBm) |      |  |
| Channel         |            |         |           | 18675          | 18900             | 19125           |                     |      |  |
| Frequency (MHz) |            |         |           | 1857.5         | 1880              | 1902.5          |                     |      |  |
| 15              | QPSK       | 1       | 0         | 18.21          | 18.22             | 18.21           | 20.2                |      |  |
| 15              | QPSK       | 1       | 37        | 18.20          | 18.24             | 18.24           |                     |      |  |
| 15              | QPSK       | 1       | 74        | 18.23          | 18.22             | 18.22           |                     |      |  |
| 15              | QPSK       | 36      | 0         | 18.26          | 18.25             | 18.20           | 20.2                |      |  |
| 15              | QPSK       | 36      | 20        | 18.36          | 18.24             | 18.30           |                     |      |  |
| 15              | QPSK       | 36      | 39        | 18.33          | 18.40             | 18.34           |                     |      |  |
| 15              | QPSK       | 75      | 0         | 18.36          | 18.28             | 18.37           | 20.2                |      |  |
| 15              | 16QAM      | 1       | 0         | 18.50          | 18.60             | 18.49           |                     |      |  |
| 15              | 16QAM      | 1       | 37        | 18.52          | 18.49             | 18.43           |                     |      |  |
| 15              | 16QAM      | 1       | 74        | 18.39          | 18.40             | 18.42           | 20.2                |      |  |
| 15              | 16QAM      | 36      | 0         | 18.28          | 18.29             | 18.22           |                     |      |  |
| 15              | 16QAM      | 36      | 20        | 18.29          | 18.24             | 18.27           |                     |      |  |
| 15              | 16QAM      | 36      | 39        | 18.35          | 18.34             | 18.28           | 20.2                |      |  |
| 15              | 16QAM      | 75      | 0         | 18.31          | 18.32             | 18.34           |                     |      |  |
| 15              | 64QAM      | 1       | 0         | 18.43          | 18.38             | 18.41           |                     |      |  |
| 15              | 64QAM      | 1       | 37        | 18.44          | 18.38             | 18.36           | 20.2                |      |  |
| 15              | 64QAM      | 1       | 74        | 18.30          | 18.42             | 18.38           |                     |      |  |
| 15              | 64QAM      | 36      | 0         | 18.31          | 18.32             | 18.25           |                     |      |  |
| 15              | 64QAM      | 36      | 20        | 18.33          | 18.29             | 18.39           | 20.2                |      |  |
| 15              | 64QAM      | 36      | 39        | 18.31          | 18.36             | 18.32           |                     |      |  |
| 15              | 64QAM      | 75      | 0         | 18.39          | 18.28             | 18.34           |                     |      |  |
| Channel         |            |         |           | 18650          | 18900             | 19150           |                     |      |  |
| Frequency (MHz) |            |         |           | 1855           | 1880              | 1905            |                     |      |  |
| 10              | QPSK       | 1       | 0         | 18.20          | 18.20             | 18.24           | 20.2                |      |  |
| 10              | QPSK       | 1       | 25        | 18.20          | 18.22             | 18.22           |                     |      |  |
| 10              | QPSK       | 1       | 49        | 18.21          | 18.22             | 18.24           |                     |      |  |
| 10              | QPSK       | 25      | 0         | 18.31          | 18.24             | 18.20           | 20.2                |      |  |
| 10              | QPSK       | 25      | 12        | 18.33          | 18.32             | 18.34           |                     |      |  |
| 10              | QPSK       | 25      | 25        | 18.29          | 18.36             | 18.34           |                     |      |  |
| 10              | QPSK       | 50      | 0         | 18.36          | 18.31             | 18.33           | 20.2                |      |  |
| 10              | 16QAM      | 1       | 0         | 18.55          | 18.56             | 18.49           |                     |      |  |
| 10              | 16QAM      | 1       | 25        | 18.48          | 18.43             | 18.45           |                     |      |  |
| 10              | 16QAM      | 1       | 49        | 18.42          | 18.47             | 18.43           | 20.2                |      |  |
| 10              | 16QAM      | 25      | 0         | 18.32          | 18.25             | 18.20           |                     |      |  |
| 10              | 16QAM      | 25      | 12        | 18.39          | 18.23             | 18.32           |                     |      |  |
| 10              | 16QAM      | 25      | 25        | 18.38          | 18.30             | 18.28           | 20.2                |      |  |
| 10              | 16QAM      | 50      | 0         | 18.33          | 18.25             | 18.25           |                     |      |  |
| 10              | 64QAM      | 1       | 0         | 18.42          | 18.43             | 18.43           |                     |      |  |
| 10              | 64QAM      | 1       | 25        | 18.40          | 18.43             | 18.38           | 20.2                |      |  |
| 10              | 64QAM      | 1       | 49        | 18.30          | 18.40             | 18.36           |                     |      |  |
| 10              | 64QAM      | 25      | 0         | 18.32          | 18.28             | 18.21           |                     |      |  |
| 10              | 64QAM      | 25      | 12        | 18.43          | 18.37             | 18.34           | 20.2                |      |  |
| 10              | 64QAM      | 25      | 25        | 18.38          | 18.38             | 18.36           |                     |      |  |
| 10              | 64QAM      | 50      | 0         | 18.39          | 18.23             | 18.34           |                     |      |  |
| Channel         |            |         |           | 18625          | 18900             | 19175           |                     |      |  |
| Frequency (MHz) |            |         |           | 1852.5         | 1880              | 1907.5          |                     |      |  |
| 5               | QPSK       | 1       | 0         | 18.27          | 18.22             | 18.23           | 20.2                |      |  |
| 5               | QPSK       | 1       | 12        | 18.21          | 18.22             | 18.22           |                     |      |  |
| 5               | QPSK       | 1       | 24        | 18.21          | 18.23             | 18.21           |                     |      |  |
| 5               | QPSK       | 12      | 0         | 18.26          | 18.22             | 18.20           | 20.2                |      |  |
| 5               | QPSK       | 12      | 7         | 18.32          | 18.26             | 18.25           |                     |      |  |
| 5               | QPSK       | 12      | 13        | 18.26          | 18.37             | 18.30           |                     |      |  |
| 5               | QPSK       | 25      | 0         | 18.40          | 18.26             | 18.29           | 20.2                |      |  |
| 5               | 16QAM      | 1       | 0         | 18.48          | 18.61             | 18.53           |                     |      |  |
| 5               | 16QAM      | 1       | 12        | 18.55          | 18.52             | 18.37           |                     |      |  |
| 5               | 16QAM      | 1       | 24        | 18.44          | 18.48             | 18.46           | 20.2                |      |  |
| 5               | 16QAM      | 12      | 0         | 18.25          | 18.21             | 18.24           |                     |      |  |
| 5               | 16QAM      | 12      | 7         | 18.33          | 18.31             | 18.32           |                     |      |  |
| 5               | 16QAM      | 12      | 13        | 18.33          | 18.32             | 18.28           | 20.2                |      |  |
| 5               | 16QAM      | 25      | 0         | 18.30          | 18.27             | 18.33           |                     |      |  |
| 5               | 64QAM      | 1       | 0         | 18.43          | 18.45             | 18.40           |                     |      |  |
| 5               | 64QAM      | 1       | 12        | 18.41          | 18.45             | 18.40           | 20.2                |      |  |
| 5               | 64QAM      | 1       | 24        | 18.29          | 18.44             | 18.32           |                     |      |  |
| 5               | 64QAM      | 12      | 0         | 18.34          | 18.27             | 18.26           |                     |      |  |
| 5               | 64QAM      | 12      | 7         | 18.40          | 18.36             | 18.33           | 20.2                |      |  |
| 5               | 64QAM      | 12      | 13        | 18.35          | 18.34             | 18.34           |                     |      |  |
| 5               | 64QAM      | 25      | 0         | 18.35          | 18.28             | 18.37           |                     |      |  |
| Channel         |            |         |           | 18615          | 18900             | 19185           |                     |      |  |
| Frequency (MHz) |            |         |           | 1851.5         | 1880              | 1908.5          |                     |      |  |
| 3               | QPSK       | 1       | 0         | 18.23          | 18.23             | 18.22           | 20.2                |      |  |
| 3               | QPSK       | 1       | 8         | 18.20          | 18.21             | 18.23           |                     |      |  |
| 3               | QPSK       | 1       | 14        | 18.21          | 18.22             | 18.22           |                     |      |  |
| 3               | QPSK       | 8       | 0         | 18.31          | 18.28             | 18.24           | 20.2                |      |  |
| 3               | QPSK       | 8       | 4         | 18.39          | 18.32             | 18.27           |                     |      |  |
| 3               | QPSK       | 8       | 7         | 18.30          | 18.37             | 18.29           |                     |      |  |
| 3               | QPSK       | 15      | 0         | 18.39          | 18.28             | 18.27           | 20.2                |      |  |
| 3               | 16QAM      | 1       | 0         | 18.55          | 18.53             | 18.50           |                     |      |  |
| 3               | 16QAM      | 1       | 8         | 18.50          | 18.48             | 18.41           |                     |      |  |
| 3               | 16QAM      | 1       | 14        | 18.40          | 18.46             | 18.38           | 20.2                |      |  |
| 3               | 16QAM      | 8       | 0         | 18.28          | 18.21             | 18.22           |                     |      |  |
| 3               | 16QAM      | 8       | 4         | 18.39          | 18.25             | 18.29           |                     |      |  |
| 3               | 16QAM      | 8       | 7         | 18.28          | 18.37             | 18.34           | 20.2                |      |  |
| 3               | 16QAM      | 15      | 0         | 18.35          | 18.20             | 18.32           |                     |      |  |
| 3               | 64QAM      | 1       | 0         | 18.50          | 18.42             | 18.44           | 20.2                |      |  |
| 3               | 64QAM      | 1       | 8         | 18.44          | 18.38             | 18.38           |                     |      |  |
| 3               | 64QAM      | 1       | 14        | 18.39          | 18.45             | 18.33           |                     |      |  |
| 3               | 64QAM      | 8       | 0         | 18.31          | 18.35             | 18.23           | 20.2                |      |  |
| 3               | 64QAM      | 8       | 4         | 18.38          | 18.33             | 18.32           |                     |      |  |
| 3               | 64QAM      | 8       | 7         | 18.35          | 18.31             | 18.31           |                     |      |  |
| 3               | 64QAM      | 15      | 0         | 18.33          | 18.26             | 18.32           | Tune-up limit (dBm) |      |  |
| Channel         |            |         |           | 18607          | 18900             | 19193           |                     |      |  |
| Frequency (MHz) |            |         |           | 1850.7         | 1880              | 1909.3          |                     |      |  |
| 1.4             | QPSK       | 1       | 0         | 18.21          | 18.20             | 18.21           | 20.2                |      |  |
| 1.4             | QPSK       | 1       | 3         | 18.21          | 18.22             | 18.22           |                     |      |  |
| 1.4             | QPSK       | 1       | 5         | 18.23          | 18.20             | 18.22           |                     |      |  |
| 1.4             | QPSK       | 3       | 0         | 18.24          | 18.25             | 18.24           | 20.2                |      |  |
| 1.4             | QPSK       | 3       | 1         | 18.33          | 18.29             | 18.31           |                     |      |  |
| 1.4             | QPSK       | 3       | 3         | 18.31          | 18.35             | 18.30           |                     |      |  |
| 1.4             | QPSK       | 6       | 0         | 18.35          | 18.30             | 18.37           | 20.2                |      |  |
| 1.4             | QPSK       | 6       | 1         | 18.48          | 18.44             | 18.45           |                     |      |  |
| 1.4             | QPSK       | 6       | 3         | 18.46          | 18.50             | 18.44           |                     |      |  |
| 1.4             | QPSK       | 1       | 5         | 18.42          | 18.49             | 18.45           | 20.2                |      |  |
| 1.4             | QPSK       | 3       | 1         | 18.31          | 18.23             | 18.23           |                     |      |  |
| 1.4             | QPSK       | 3       | 3         | 18.31          | 18.34             | 18.26           |                     |      |  |
| 1.4             | QPSK       | 1       | 3         | 18.31          | 18.30             | 18.31           | 20.2                |      |  |
| 1.4             | QPSK       | 1       | 5         | 18.40          | 18.44             | 18.40           |                     |      |  |
| 1.4             | QPSK       | 1       | 3         | 18.40          | 18.44             | 18.40           |                     |      |  |
| 1.4             | QPSK       | 1       | 5         | 18.39          | 18.40             | 18.32           | 20.2                |      |  |
| 1.4             | QPSK       | 3       | 1         | 18.33          | 18.36             | 18.38           |                     |      |  |
| 1.4             | QPSK       | 3       | 3         | 18.37          | 18.40             | 18.36           |                     |      |  |



| Band 4          |            |         |           |                           |                           |                           |                   |                           |  |
|-----------------|------------|---------|-----------|---------------------------|---------------------------|---------------------------|-------------------|---------------------------|--|
| Art 0           |            |         |           |                           |                           |                           |                   |                           |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Mod Ch.<br>20050 | Power<br>Mod Ch.<br>20175 | Power<br>Mod Ch.<br>20300 | High Ch.<br>20300 | Tune-up<br>limit<br>(dBm) |  |
| Channel         |            |         |           | 20050                     | 20175                     | 20300                     |                   |                           |  |
| Frequency (MHz) |            |         |           | 1720                      | 1732.5                    | 1745                      |                   |                           |  |
| 20              | QPSK       | 1       | 0         | 18.94                     | 18.90                     | 18.88                     |                   | 20.8                      |  |
| 20              | QPSK       | 1       | 49        | 18.89                     | 18.84                     | 18.86                     |                   |                           |  |
| 20              | QPSK       | 1       | 99        | 18.89                     | 18.89                     | 18.90                     |                   |                           |  |
| 20              | QPSK       | 50      | 0         | 19.01                     | 18.96                     | 18.98                     |                   |                           |  |
| 20              | QPSK       | 50      | 24        | 19.02                     | 19.03                     | 19.02                     |                   | 20.8                      |  |
| 20              | QPSK       | 50      | 50        | 18.95                     | 18.89                     | 18.92                     |                   |                           |  |
| 20              | QPSK       | 100     | 0         | 18.99                     | 18.99                     | 18.88                     |                   |                           |  |
| 20              | 16QAM      | 1       | 0         | 19.31                     | 19.23                     | 19.21                     |                   | 20.8                      |  |
| 20              | 16QAM      | 1       | 49        | 19.13                     | 19.10                     | 19.13                     |                   |                           |  |
| 20              | 16QAM      | 1       | 99        | 19.19                     | 19.12                     | 19.07                     |                   |                           |  |
| 20              | 16QAM      | 50      | 0         | 18.99                     | 18.97                     | 19.00                     |                   |                           |  |
| 20              | 16QAM      | 50      | 24        | 19.02                     | 19.00                     | 19.02                     |                   | 20.8                      |  |
| 20              | 16QAM      | 50      | 50        | 18.95                     | 18.91                     | 18.95                     |                   |                           |  |
| 20              | 16QAM      | 100     | 0         | 18.97                     | 18.99                     | 18.90                     |                   |                           |  |
| 20              | 64QAM      | 1       | 0         | 19.11                     | 19.09                     | 19.10                     |                   | 20.8                      |  |
| 20              | 64QAM      | 1       | 49        | 19.00                     | 18.93                     | 18.95                     |                   |                           |  |
| 20              | 64QAM      | 1       | 99        | 19.02                     | 19.04                     | 19.03                     |                   |                           |  |
| 20              | 64QAM      | 50      | 0         | 19.00                     | 18.96                     | 18.97                     |                   | 20.8                      |  |
| 20              | 64QAM      | 50      | 24        | 19.02                     | 18.99                     | 19.00                     |                   |                           |  |
| 20              | 64QAM      | 50      | 50        | 18.96                     | 18.92                     | 18.93                     |                   | 20.8                      |  |
| 20              | 64QAM      | 100     | 0         | 19.01                     | 18.96                     | 18.93                     |                   |                           |  |
| Channel         |            |         |           | 20025                     | 20175                     | 20325                     |                   | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 1717.5                    | 1732.5                    | 1747.5                    |                   |                           |  |
| 15              | QPSK       | 1       | 0         | 18.84                     | 18.92                     | 18.94                     |                   | 20.8                      |  |
| 15              | QPSK       | 1       | 37        | 18.80                     | 18.80                     | 18.80                     |                   |                           |  |
| 15              | QPSK       | 1       | 74        | 18.81                     | 18.80                     | 18.80                     |                   |                           |  |
| 15              | QPSK       | 36      | 0         | 19.01                     | 18.95                     | 18.97                     |                   | 20.8                      |  |
| 15              | QPSK       | 36      | 20        | 18.93                     | 18.93                     | 18.95                     |                   |                           |  |
| 15              | QPSK       | 36      | 39        | 18.91                     | 18.90                     | 18.93                     |                   |                           |  |
| 15              | QPSK       | 75      | 0         | 18.97                     | 18.97                     | 18.88                     |                   | 20.8                      |  |
| 15              | 16QAM      | 1       | 0         | 19.26                     | 19.24                     | 19.27                     |                   |                           |  |
| 15              | 16QAM      | 1       | 37        | 19.10                     | 19.07                     | 19.12                     |                   | 20.8                      |  |
| 15              | 16QAM      | 1       | 74        | 19.13                     | 19.05                     | 19.10                     |                   |                           |  |
| 15              | 16QAM      | 36      | 0         | 19.05                     | 18.94                     | 18.97                     |                   |                           |  |
| 15              | 16QAM      | 36      | 20        | 18.98                     | 18.93                     | 18.99                     |                   | 20.8                      |  |
| 15              | 16QAM      | 36      | 39        | 18.96                     | 18.88                     | 18.96                     |                   |                           |  |
| 15              | 16QAM      | 75      | 0         | 18.99                     | 18.95                     | 18.91                     |                   |                           |  |
| 15              | 64QAM      | 1       | 0         | 19.04                     | 19.00                     | 19.05                     |                   | 20.8                      |  |
| 15              | 64QAM      | 36      | 0         | 19.06                     | 18.99                     | 18.97                     |                   |                           |  |
| 15              | 64QAM      | 36      | 20        | 18.99                     | 18.96                     | 18.97                     |                   | 20.8                      |  |
| 15              | 64QAM      | 36      | 39        | 18.96                     | 18.92                     | 18.97                     |                   |                           |  |
| 15              | 64QAM      | 75      | 0         | 18.98                     | 18.97                     | 18.91                     |                   |                           |  |
| Channel         |            |         |           | 20000                     | 20175                     | 20350                     |                   | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 1715                      | 1732.5                    | 1750                      |                   |                           |  |
| 10              | QPSK       | 1       | 0         | 18.85                     | 18.82                     | 18.85                     |                   | 20.8                      |  |
| 10              | QPSK       | 1       | 25        | 18.80                     | 18.80                     | 18.85                     |                   |                           |  |
| 10              | QPSK       | 1       | 49        | 18.80                     | 18.81                     | 18.86                     |                   |                           |  |
| 10              | QPSK       | 25      | 0         | 18.95                     | 18.88                     | 18.88                     |                   | 20.8                      |  |
| 10              | QPSK       | 25      | 12        | 18.99                     | 18.96                     | 18.92                     |                   |                           |  |
| 10              | QPSK       | 25      | 25        | 18.98                     | 18.97                     | 19.00                     |                   | 20.8                      |  |
| 10              | QPSK       | 50      | 0         | 18.99                     | 18.97                     | 18.95                     |                   |                           |  |
| 10              | 16QAM      | 1       | 0         | 19.24                     | 19.20                     | 19.23                     |                   | 20.8                      |  |
| 10              | 16QAM      | 1       | 25        | 19.19                     | 19.17                     | 19.24                     |                   |                           |  |
| 10              | 16QAM      | 1       | 49        | 19.20                     | 19.16                     | 19.23                     |                   |                           |  |
| 10              | 16QAM      | 25      | 0         | 18.96                     | 18.93                     | 18.92                     |                   | 20.8                      |  |
| 10              | 16QAM      | 25      | 12        | 18.99                     | 18.97                     | 18.94                     |                   |                           |  |
| 10              | 16QAM      | 25      | 25        | 18.98                     | 18.93                     | 18.99                     |                   | 20.8                      |  |
| 10              | 16QAM      | 50      | 0         | 18.99                     | 18.95                     | 18.93                     |                   |                           |  |
| 10              | 64QAM      | 1       | 0         | 19.17                     | 19.03                     | 19.09                     |                   | 20.8                      |  |
| 10              | 64QAM      | 1       | 25        | 19.15                     | 19.13                     | 19.15                     |                   |                           |  |
| 10              | 64QAM      | 1       | 49        | 19.12                     | 19.11                     | 19.11                     |                   |                           |  |
| 10              | 64QAM      | 25      | 0         | 18.99                     | 18.92                     | 18.93                     |                   | 20.8                      |  |
| 10              | 64QAM      | 25      | 12        | 19.03                     | 19.00                     | 18.98                     |                   |                           |  |
| 10              | 64QAM      | 25      | 25        | 19.02                     | 19.00                     | 19.06                     |                   | 20.8                      |  |
| 10              | 64QAM      | 50      | 0         | 19.02                     | 18.99                     | 18.97                     |                   |                           |  |
| Channel         |            |         |           | 19975                     | 20175                     | 20375                     |                   | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 1712.5                    | 1732.5                    | 1752.5                    |                   |                           |  |
| 5               | QPSK       | 1       | 0         | 18.88                     | 18.80                     | 18.89                     |                   | 20.8                      |  |
| 5               | QPSK       | 1       | 12        | 18.91                     | 18.84                     | 18.92                     |                   |                           |  |
| 5               | QPSK       | 1       | 24        | 18.90                     | 18.85                     | 18.91                     |                   |                           |  |
| 5               | QPSK       | 12      | 0         | 18.99                     | 18.88                     | 18.94                     |                   | 20.8                      |  |
| 5               | QPSK       | 12      | 7         | 19.02                     | 18.95                     | 19.02                     |                   |                           |  |
| 5               | QPSK       | 12      | 13        | 19.01                     | 18.95                     | 18.99                     |                   |                           |  |
| 5               | QPSK       | 25      | 0         | 18.98                     | 18.94                     | 18.94                     |                   | 20.8                      |  |
| 5               | 16QAM      | 1       | 0         | 19.22                     | 19.10                     | 19.18                     |                   |                           |  |
| 5               | 16QAM      | 1       | 12        | 19.26                     | 19.15                     | 19.08                     |                   | 20.8                      |  |
| 5               | 16QAM      | 1       | 24        | 19.26                     | 19.21                     | 19.20                     |                   |                           |  |
| 5               | 16QAM      | 12      | 0         | 19.00                     | 18.87                     | 18.98                     |                   | 20.8                      |  |
| 5               | 16QAM      | 12      | 7         | 19.02                     | 18.97                     | 19.02                     |                   |                           |  |
| 5               | 16QAM      | 12      | 13        | 19.02                     | 18.93                     | 18.99                     |                   | 20.8                      |  |
| 5               | 16QAM      | 25      | 0         | 18.98                     | 18.97                     | 18.98                     |                   |                           |  |
| 5               | 64QAM      | 1       | 0         | 19.19                     | 19.08                     | 19.14                     |                   | 20.8                      |  |
| 5               | 64QAM      | 1       | 12        | 19.18                     | 19.10                     | 19.04                     |                   |                           |  |
| 5               | 64QAM      | 1       | 24        | 19.22                     | 19.14                     | 19.07                     |                   |                           |  |
| 5               | 64QAM      | 12      | 0         | 19.06                     | 18.91                     | 19.06                     |                   | 20.8                      |  |
| 5               | 64QAM      | 12      | 7         | 19.09                     | 19.00                     | 19.09                     |                   |                           |  |
| 5               | 64QAM      | 12      | 13        | 19.07                     | 19.01                     | 19.05                     |                   |                           |  |
| 5               | 64QAM      | 25      | 0         | 19.06                     | 18.98                     | 18.99                     |                   | 20.8                      |  |
| Channel         |            |         |           | 19965                     | 20175                     | 20385                     |                   | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 1711.5                    | 1732.5                    | 1753.5                    |                   |                           |  |
| 3               | QPSK       | 1       | 0         | 18.92                     | 18.80                     | 18.92                     |                   | 20.8                      |  |
| 3               | QPSK       | 1       | 8         | 18.95                     | 18.91                     | 18.94                     |                   |                           |  |
| 3               | QPSK       | 1       | 14        | 18.90                     | 18.87                     | 18.93                     |                   |                           |  |
| 3               | QPSK       | 8       | 0         | 18.96                     | 18.89                     | 18.96                     |                   | 20.8                      |  |
| 3               | QPSK       | 8       | 4         | 19.03                     | 18.96                     | 19.03                     |                   |                           |  |
| 3               | QPSK       | 8       | 7         | 19.01                     | 18.93                     | 18.99                     |                   |                           |  |
| 3               | QPSK       | 15      | 0         | 18.98                     | 18.95                     | 19.00                     |                   | 20.8                      |  |
| 3               | 16QAM      | 1       | 0         | 19.19                     | 19.09                     | 19.20                     |                   |                           |  |
| 3               | 16QAM      | 1       | 8         | 19.30                     | 19.23                     | 19.22                     |                   |                           |  |
| 3               | 16QAM      | 1       | 14        | 19.24                     | 19.17                     | 19.23                     |                   | 20.8                      |  |
| 3               | 16QAM      | 8       | 0         | 19.03                     | 18.94                     | 18.99                     |                   |                           |  |
| 3               | 16QAM      | 8       | 4         | 19.08                     | 19.02                     | 19.04                     |                   | 20.8                      |  |
| 3               | 16QAM      | 8       | 7         | 19.05                     | 19.01                     | 18.99                     |                   |                           |  |
| 3               | 16QAM      | 15      | 0         | 18.99                     | 18.96                     | 19.00                     |                   |                           |  |
| 3               | 64QAM      | 1       | 0         | 19.18                     | 19.07                     | 19.10                     |                   | 20.8                      |  |
| 3               | 64QAM      | 1       | 8         | 19.26                     | 19.19                     | 19.15                     |                   |                           |  |
| 3               | 64QAM      | 1       | 14        | 19.21                     | 19.13                     | 19.06                     |                   |                           |  |
| 3               | 64QAM      | 8       | 0         | 19.05                     | 18.91                     | 19.05                     |                   | 20.8                      |  |
| 3               | 64QAM      | 8       | 4         | 19.12                     | 19.01                     | 19.08                     |                   |                           |  |
| 3               | 64QAM      | 8       | 7         | 19.07                     | 18.99                     | 19.07                     |                   | 20.8                      |  |
| 3               | 64QAM      | 15      | 0         | 19.03                     | 19.00                     | 19.03                     |                   |                           |  |
| Channel         |            |         |           | 19957                     | 20175                     | 20393                     |                   | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 1710.7                    | 1732.5                    | 1754.3                    |                   |                           |  |
| 1.4             | QPSK       | 1       | 0         | 18.80                     | 18.80                     | 18.80                     |                   | 20.8                      |  |
| 1.4             | QPSK       | 1       | 3         | 18.87                     | 18.84                     | 18.87                     |                   |                           |  |
| 1.4             | QPSK       | 1       | 5         | 18.82                     | 18.80                     | 18.80                     |                   |                           |  |
| 1.4             | QPSK       | 3       | 0         | 18.86                     | 18.80                     | 18.81                     |                   | 20.8                      |  |
| 1.4             | QPSK       | 3       | 1         | 18.89                     | 18.83                     | 18.85                     |                   |                           |  |
| 1.4             | QPSK       | 3       | 3         | 18.82                     | 18.80                     | 18.84                     |                   |                           |  |
| 1.4             | QPSK       | 6       | 0         | 18.91                     | 18.86                     | 18.88                     |                   | 20.8                      |  |
| 1.4             | 16QAM      | 1       | 0         | 19.15                     | 19.10                     | 19.13                     |                   |                           |  |
| 1.4             | 16QAM      | 1       | 3         | 19.12                     | 19.15                     | 19.12                     |                   | 20.8                      |  |
| 1.4             | 16QAM      | 1       | 5         | 19.15                     | 19.11                     | 19.12                     |                   |                           |  |
| 1.4             | 16QAM      | 3       | 0         | 19.04                     | 18.88                     | 18.88                     |                   |                           |  |
| 1.4             | 16QAM      | 3       | 1         | 19.00                     | 18.91                     | 18.90                     |                   | 20.8                      |  |
| 1.4             | 16QAM      | 3       | 3         | 19.03                     | 18.87                     | 18.85                     |                   |                           |  |
| 1.4             | 16QAM      | 6       | 0         | 18.97                     | 18.91                     | 18.99                     |                   | 20.8                      |  |
| 1.4             | 16QAM      | 6       | 1         | 19.00                     | 18.96                     | 19.00                     |                   |                           |  |
| 1.4             | 16QAM      | 1       | 3         | 19.16                     | 19.07                     | 19.07                     |                   |                           |  |
| 1.4             | 64QAM      | 1       | 5         | 19.11                     | 19.04                     | 19.04                     |                   | 20.8                      |  |
| 1.4             | 64QAM      | 3       | 0         | 19.05                     | 19.01                     | 19.02                     |                   |                           |  |
| 1.4             | 64QAM      | 3       | 1         | 19.13                     | 19.03                     | 19.07                     |                   |                           |  |
| 1.4             | 64QAM      | 3       | 3         | 19.07                     | 19.00                     | 19.03                     |                   | 20.8                      |  |



| Band 5          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20450           | 20525              | 20600            |                     |
| Frequency (MHz) |            |         |           | 825             | 835.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.43           | 24.46              | 24.43            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.39           | 24.46              | 24.45            |                     |
| 10              | QPSK       | 1       | 49        | 24.42           | 24.47              | 24.40            |                     |
| 10              | QPSK       | 25      | 0         | 23.49           | 23.55              | 23.56            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.56           | 23.57              | 23.57            |                     |
| 10              | QPSK       | 25      | 25        | 23.54           | 23.57              | 23.47            |                     |
| 10              | QPSK       | 50      | 0         | 23.57           | 23.55              | 23.56            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.84           | 23.81              | 23.88            |                     |
| 10              | 16QAM      | 1       | 25        | 23.77           | 23.82              | 23.84            |                     |
| 10              | 16QAM      | 1       | 49        | 23.63           | 23.86              | 23.78            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.49           | 22.55              | 22.53            |                     |
| 10              | 16QAM      | 25      | 12        | 22.59           | 22.57              | 22.65            |                     |
| 10              | 16QAM      | 25      | 25        | 22.54           | 22.60              | 22.57            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.56           | 22.55              | 22.55            |                     |
| 10              | 64QAM      | 1       | 0         | 22.71           | 22.68              | 22.74            |                     |
| 10              | 64QAM      | 1       | 25        | 22.73           | 22.49              | 22.51            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.73           | 22.35              | 21.70            |                     |
| 10              | 64QAM      | 25      | 0         | 21.54           | 21.60              | 21.58            |                     |
| 10              | 64QAM      | 25      | 12        | 21.63           | 21.53              | 21.47            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.58           | 21.61              | 20.76            |                     |
| 10              | 64QAM      | 50      | 0         | 21.59           | 21.57              | 21.25            |                     |
| Channel         |            |         |           | 20425           | 20525              | 20625            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.5           | 836.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.46           | 24.46              | 24.45            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.44           | 24.46              | 24.19            |                     |
| 5               | QPSK       | 1       | 24        | 24.46           | 24.45              | 24.23            |                     |
| 5               | QPSK       | 12      | 0         | 23.59           | 23.59              | 23.58            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.54           | 23.61              | 23.25            |                     |
| 5               | QPSK       | 12      | 13        | 23.52           | 23.56              | 23.24            |                     |
| 5               | QPSK       | 25      | 0         | 23.54           | 23.52              | 23.37            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.91           | 23.90              | 23.87            |                     |
| 5               | 16QAM      | 1       | 12        | 23.78           | 23.86              | 23.43            |                     |
| 5               | 16QAM      | 1       | 24        | 23.79           | 23.83              | 23.43            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.65           | 22.62              | 22.60            |                     |
| 5               | 16QAM      | 12      | 7         | 22.57           | 22.64              | 22.38            |                     |
| 5               | 16QAM      | 12      | 13        | 22.52           | 22.59              | 22.35            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.57           | 22.59              | 22.51            |                     |
| 5               | 64QAM      | 1       | 0         | 22.87           | 22.79              | 22.18            |                     |
| 5               | 64QAM      | 1       | 12        | 22.72           | 22.71              | 21.72            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.72           | 22.73              | 21.73            |                     |
| 5               | 64QAM      | 12      | 0         | 21.69           | 21.69              | 20.87            |                     |
| 5               | 64QAM      | 12      | 7         | 21.63           | 21.56              | 21.85            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.60           | 21.61              | 20.71            |                     |
| 5               | 64QAM      | 25      | 0         | 21.57           | 21.61              | 20.73            |                     |
| Channel         |            |         |           | 20415           | 20525              | 20635            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 825.5           | 836.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.43           | 24.43              | 24.20            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.43           | 24.45              | 24.13            |                     |
| 3               | QPSK       | 1       | 14        | 24.39           | 24.42              | 24.17            |                     |
| 3               | QPSK       | 8       | 0         | 23.60           | 23.60              | 23.07            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.55           | 23.62              | 23.16            |                     |
| 3               | QPSK       | 8       | 7         | 23.52           | 23.58              | 23.25            |                     |
| 3               | QPSK       | 15      | 0         | 23.57           | 23.58              | 23.17            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.87           | 23.84              | 23.44            |                     |
| 3               | 16QAM      | 1       | 8         | 23.89           | 23.89              | 23.38            |                     |
| 3               | 16QAM      | 1       | 14        | 23.74           | 23.82              | 23.44            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.66           | 22.61              | 22.26            |                     |
| 3               | 16QAM      | 8       | 4         | 22.66           | 22.71              | 22.30            |                     |
| 3               | 16QAM      | 8       | 7         | 22.60           | 22.65              | 22.40            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.60           | 22.54              | 22.27            |                     |
| 3               | 64QAM      | 1       | 0         | 22.81           | 22.74              | 21.74            |                     |
| 3               | 64QAM      | 1       | 8         | 22.63           | 22.74              | 21.72            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.70           | 22.64              | 21.71            |                     |
| 3               | 64QAM      | 8       | 0         | 21.69           | 21.58              | 20.75            |                     |
| 3               | 64QAM      | 8       | 4         | 21.66           | 21.56              | 20.73            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.62           | 21.61              | 20.80            |                     |
| 3               | 64QAM      | 15      | 0         | 21.63           | 21.60              | 20.71            |                     |
| Channel         |            |         |           | 20407           | 20525              | 20643            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 824.7           | 836.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.42           | 24.41              | 24.09            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.46           | 24.45              | 24.26            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.38           | 24.39              | 24.21            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.41           | 24.41              | 24.22            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.46           | 24.46              | 24.30            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.41           | 24.45              | 24.42            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.50           | 23.51              | 23.36            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.75           | 23.73              | 23.46            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.79           | 23.84              | 23.67            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.68           | 23.74              | 23.60            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.56           | 23.51              | 23.29            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.60           | 23.58              | 23.35            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.51           | 23.53              | 23.45            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.58           | 22.61              | 22.49            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.69           | 22.61              | 21.73            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.75           | 22.64              | 21.71            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.64           | 22.61              | 21.72            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.66           | 22.60              | 21.73            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.69           | 22.63              | 21.74            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.63           | 22.60              | 21.75            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.54           | 21.47              | 20.72            |                     |





| Band 7          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Art 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850           | 21100              | 21350            |                     |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |
| 20              | QPSK       | 1       | 0         | 20.81           | 20.82              | 20.83            | 22.8                |
| 20              | QPSK       | 1       | 49        | 20.80           | 20.86              | 20.81            |                     |
| 20              | QPSK       | 1       | 99        | 20.83           | 20.92              | 20.89            |                     |
| 20              | QPSK       | 50      | 0         | 20.82           | 20.91              | 20.93            | 22.8                |
| 20              | QPSK       | 50      | 24        | 20.84           | 20.92              | 20.96            |                     |
| 20              | QPSK       | 50      | 50        | 20.95           | 21.03              | 21.02            |                     |
| 20              | QPSK       | 100     | 0         | 20.92           | 20.94              | 20.93            | 22.8                |
| 20              | 16QAM      | 1       | 0         | 21.06           | 21.11              | 21.16            |                     |
| 20              | 16QAM      | 1       | 49        | 21.13           | 21.18              | 21.17            |                     |
| 20              | 16QAM      | 1       | 99        | 21.14           | 21.27              | 21.23            | 22.8                |
| 20              | 16QAM      | 50      | 0         | 20.81           | 20.99              | 20.94            |                     |
| 20              | 16QAM      | 50      | 24        | 20.93           | 20.97              | 20.96            |                     |
| 20              | 16QAM      | 50      | 50        | 20.95           | 21.05              | 21.03            | 22.8                |
| 20              | 16QAM      | 100     | 0         | 20.92           | 20.90              | 20.93            |                     |
| 20              | 64QAM      | 1       | 0         | 20.87           | 20.98              | 20.99            |                     |
| 20              | 64QAM      | 1       | 49        | 20.96           | 21.06              | 20.98            | 22.8                |
| 20              | 64QAM      | 1       | 99        | 21.02           | 21.14              | 21.12            |                     |
| 20              | 64QAM      | 50      | 0         | 20.83           | 20.91              | 20.93            |                     |
| 20              | 64QAM      | 50      | 24        | 20.94           | 20.96              | 20.96            | 22.8                |
| 20              | 64QAM      | 50      | 50        | 20.95           | 21.03              | 21.05            |                     |
| 20              | 64QAM      | 100     | 0         | 20.92           | 20.94              | 20.94            |                     |
| Channel         |            |         |           | 20825           | 21100              | 21375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5          | 2535               | 2562.5           |                     |
| 15              | QPSK       | 1       | 0         | 20.81           | 20.82              | 20.81            | 22.8                |
| 15              | QPSK       | 1       | 37        | 20.81           | 20.83              | 20.81            |                     |
| 15              | QPSK       | 1       | 74        | 20.80           | 20.83              | 20.85            |                     |
| 15              | QPSK       | 36      | 0         | 20.82           | 20.86              | 20.91            | 22.8                |
| 15              | QPSK       | 36      | 20        | 20.92           | 20.82              | 20.89            |                     |
| 15              | QPSK       | 36      | 39        | 20.95           | 20.95              | 21.00            |                     |
| 15              | QPSK       | 75      | 0         | 20.85           | 20.90              | 20.91            | 22.8                |
| 15              | 16QAM      | 1       | 0         | 20.99           | 21.11              | 21.14            |                     |
| 15              | 16QAM      | 1       | 37        | 21.07           | 21.14              | 21.11            |                     |
| 15              | 16QAM      | 1       | 74        | 21.05           | 21.21              | 21.18            | 22.8                |
| 15              | 16QAM      | 36      | 0         | 20.81           | 20.86              | 20.92            |                     |
| 15              | 16QAM      | 36      | 20        | 20.86           | 20.91              | 20.94            |                     |
| 15              | 16QAM      | 36      | 39        | 20.95           | 21.04              | 20.93            | 22.8                |
| 15              | 16QAM      | 75      | 0         | 20.83           | 20.87              | 20.93            |                     |
| 15              | 64QAM      | 1       | 0         | 20.80           | 20.95              | 20.89            |                     |
| 15              | 64QAM      | 1       | 37        | 20.91           | 20.98              | 20.95            | 22.8                |
| 15              | 64QAM      | 1       | 74        | 21.00           | 21.07              | 21.12            |                     |
| 15              | 64QAM      | 36      | 0         | 20.80           | 20.89              | 20.85            |                     |
| 15              | 64QAM      | 36      | 20        | 20.93           | 20.96              | 20.95            | 22.8                |
| 15              | 64QAM      | 36      | 39        | 20.88           | 21.02              | 20.96            |                     |
| 15              | 64QAM      | 75      | 0         | 20.85           | 20.94              | 20.86            |                     |
| Channel         |            |         |           | 20800           | 21100              | 21400            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505            | 2535               | 2565             |                     |
| 10              | QPSK       | 1       | 0         | 20.80           | 20.82              | 20.80            | 22.8                |
| 10              | QPSK       | 1       | 25        | 20.83           | 20.83              | 20.81            |                     |
| 10              | QPSK       | 1       | 49        | 20.81           | 20.83              | 20.84            |                     |
| 10              | QPSK       | 25      | 0         | 20.82           | 20.85              | 20.93            | 22.8                |
| 10              | QPSK       | 25      | 12        | 20.84           | 20.83              | 20.85            |                     |
| 10              | QPSK       | 25      | 25        | 20.85           | 21.00              | 20.98            |                     |
| 10              | QPSK       | 50      | 0         | 20.83           | 20.94              | 20.87            | 22.8                |
| 10              | 16QAM      | 1       | 0         | 21.04           | 21.10              | 21.13            |                     |
| 10              | 16QAM      | 1       | 25        | 21.13           | 21.11              | 21.12            |                     |
| 10              | 16QAM      | 1       | 49        | 21.06           | 21.26              | 21.16            | 22.8                |
| 10              | 16QAM      | 25      | 0         | 20.81           | 20.82              | 20.91            |                     |
| 10              | 16QAM      | 25      | 12        | 20.93           | 20.93              | 20.86            |                     |
| 10              | 16QAM      | 25      | 25        | 20.95           | 21.02              | 20.98            | 22.8                |
| 10              | 16QAM      | 50      | 0         | 20.90           | 20.85              | 20.91            |                     |
| 10              | 64QAM      | 1       | 0         | 20.83           | 20.92              | 20.98            |                     |
| 10              | 64QAM      | 1       | 25        | 20.96           | 20.96              | 20.88            | 22.8                |
| 10              | 64QAM      | 1       | 49        | 20.95           | 21.06              | 21.03            |                     |
| 10              | 64QAM      | 25      | 0         | 20.88           | 20.89              | 20.93            |                     |
| 10              | 64QAM      | 25      | 12        | 20.87           | 20.95              | 20.96            | 22.8                |
| 10              | 64QAM      | 25      | 25        | 20.95           | 20.94              | 20.95            |                     |
| 10              | 64QAM      | 50      | 0         | 20.87           | 20.89              | 20.92            |                     |
| Channel         |            |         |           | 20775           | 21100              | 21425            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5          | 2535               | 2567.5           |                     |
| 5               | QPSK       | 1       | 0         | 20.83           | 20.80              | 20.82            | 22.8                |
| 5               | QPSK       | 1       | 12        | 20.82           | 20.84              | 20.85            |                     |
| 5               | QPSK       | 1       | 24        | 20.83           | 20.83              | 20.86            |                     |
| 5               | QPSK       | 12      | 0         | 20.85           | 20.86              | 20.91            | 22.8                |
| 5               | QPSK       | 12      | 7         | 20.88           | 20.87              | 20.89            |                     |
| 5               | QPSK       | 12      | 13        | 20.88           | 20.94              | 20.95            |                     |
| 5               | QPSK       | 25      | 0         | 20.87           | 20.87              | 20.93            | 22.8                |
| 5               | 16QAM      | 1       | 0         | 20.96           | 21.06              | 21.12            |                     |
| 5               | 16QAM      | 1       | 12        | 21.07           | 21.18              | 21.14            |                     |
| 5               | 16QAM      | 1       | 24        | 21.14           | 21.25              | 21.23            | 22.8                |
| 5               | 16QAM      | 12      | 0         | 20.83           | 20.87              | 20.92            |                     |
| 5               | 16QAM      | 12      | 7         | 20.93           | 20.86              | 20.91            |                     |
| 5               | 16QAM      | 12      | 13        | 20.90           | 20.96              | 20.95            | 22.8                |
| 5               | 16QAM      | 25      | 0         | 20.82           | 20.82              | 20.89            |                     |
| 5               | 64QAM      | 1       | 0         | 20.81           | 20.96              | 20.93            |                     |
| 5               | 64QAM      | 1       | 12        | 20.90           | 20.98              | 20.97            | 22.8                |
| 5               | 64QAM      | 1       | 24        | 20.97           | 21.08              | 21.10            |                     |
| 5               | 64QAM      | 12      | 0         | 20.87           | 20.89              | 20.90            |                     |
| 5               | 64QAM      | 12      | 7         | 20.93           | 20.89              | 20.87            | 22.8                |
| 5               | 64QAM      | 12      | 13        | 20.91           | 20.96              | 21.05            |                     |
| 5               | 64QAM      | 25      | 0         | 20.86           | 20.87              | 20.90            |                     |



| Band 12         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23060           | 23095              | 23150            |                     |
| Frequency (MHz) |            |         |           | 704             | 707.5              | 711              |                     |
| 10              | QPSK       | 1       | 0         | 24.57           | 24.53              | 24.51            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58           | 24.57              | 24.54            |                     |
| 10              | QPSK       | 1       | 49        | 24.63           | 24.62              | 24.58            |                     |
| 10              | QPSK       | 25      | 0         | 23.64           | 23.68              | 23.68            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.74           | 23.70              | 23.69            |                     |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.75              | 23.74            |                     |
| 10              | QPSK       | 50      | 0         | 23.73           | 23.67              | 23.68            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.94           | 23.91              | 23.89            |                     |
| 10              | 16QAM      | 1       | 25        | 23.94           | 23.99              | 23.95            |                     |
| 10              | 16QAM      | 1       | 49        | 24.00           | 24.00              | 23.96            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.96           | 22.71              | 22.88            |                     |
| 10              | 16QAM      | 25      | 12        | 22.75           | 22.69              | 22.68            |                     |
| 10              | 16QAM      | 25      | 25        | 22.70           | 22.75              | 22.71            | 22.7                |
| 10              | 16QAM      | 50      | 0         | 22.72           | 22.69              | 22.64            |                     |
| 10              | 64QAM      | 1       | 0         | 22.60           | 22.76              | 22.82            |                     |
| 10              | 64QAM      | 1       | 25        | 22.56           | 22.89              | 22.57            | 22.7                |
| 10              | 64QAM      | 1       | 49        | 22.58           | 22.88              | 22.83            |                     |
| 10              | 64QAM      | 25      | 0         | 21.48           | 21.60              | 21.64            |                     |
| 10              | 64QAM      | 25      | 12        | 21.63           | 21.71              | 21.72            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.72           | 21.77              | 21.76            |                     |
| 10              | 64QAM      | 50      | 0         | 21.55           | 21.68              | 21.70            |                     |
| Channel         |            |         |           | 23035           | 23095              | 23155            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 701.5           | 707.5              | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.62           | 24.59              | 24.56            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.60           | 24.62              | 24.60            |                     |
| 5               | QPSK       | 1       | 24        | 24.62           | 24.61              | 24.61            |                     |
| 5               | QPSK       | 12      | 0         | 23.73           | 23.71              | 23.68            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.69           | 23.69              | 23.74            |                     |
| 5               | QPSK       | 12      | 13        | 23.71           | 23.71              | 23.67            |                     |
| 5               | QPSK       | 25      | 0         | 23.70           | 23.67              | 23.66            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.96           | 23.92              | 23.87            |                     |
| 5               | 16QAM      | 1       | 12        | 23.98           | 23.95              | 23.93            |                     |
| 5               | 16QAM      | 1       | 24        | 23.95           | 23.93              | 23.93            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.77           | 22.73              | 22.70            |                     |
| 5               | 16QAM      | 12      | 7         | 22.74           | 22.70              | 22.79            |                     |
| 5               | 16QAM      | 12      | 13        | 22.69           | 22.76              | 22.68            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.73           | 22.71              | 22.70            |                     |
| 5               | 64QAM      | 1       | 0         | 22.46           | 22.42              | 22.84            |                     |
| 5               | 64QAM      | 1       | 12        | 22.83           | 22.87              | 22.86            | 22.7                |
| 5               | 64QAM      | 1       | 24        | 22.48           | 22.86              | 22.85            |                     |
| 5               | 64QAM      | 12      | 0         | 21.51           | 21.79              | 21.76            |                     |
| 5               | 64QAM      | 12      | 7         | 21.65           | 21.76              | 21.81            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.71           | 21.79              | 21.76            |                     |
| 5               | 64QAM      | 25      | 0         | 21.60           | 21.70              | 21.70            |                     |
| Channel         |            |         |           | 23025           | 23095              | 23165            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 700.5           | 707.5              | 714.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.62           | 24.60              | 24.61            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.62           | 24.62              | 24.60            |                     |
| 3               | QPSK       | 1       | 14        | 24.57           | 24.60              | 24.58            |                     |
| 3               | QPSK       | 8       | 0         | 23.69           | 23.70              | 22.70            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.69           | 23.94              | 22.71            |                     |
| 3               | QPSK       | 8       | 7         | 23.62           | 23.70              | 22.70            |                     |
| 3               | QPSK       | 15      | 0         | 23.70           | 23.66              | 22.70            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.00           | 24.02              | 23.95            |                     |
| 3               | 16QAM      | 1       | 8         | 23.96           | 23.98              | 23.98            |                     |
| 3               | 16QAM      | 1       | 14        | 23.91           | 23.96              | 23.91            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.75           | 22.71              | 22.71            |                     |
| 3               | 16QAM      | 8       | 4         | 22.78           | 22.75              | 22.82            |                     |
| 3               | 16QAM      | 8       | 7         | 22.71           | 22.77              | 22.71            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.73           | 22.69              | 22.68            |                     |
| 3               | 64QAM      | 1       | 0         | 22.46           | 22.70              | 22.87            |                     |
| 3               | 64QAM      | 1       | 8         | 22.67           | 22.88              | 22.90            | 22.7                |
| 3               | 64QAM      | 1       | 14        | 22.66           | 22.94              | 22.81            |                     |
| 3               | 64QAM      | 8       | 0         | 21.50           | 21.75              | 21.71            |                     |
| 3               | 64QAM      | 8       | 4         | 21.58           | 21.74              | 21.79            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.58           | 21.79              | 21.71            |                     |
| 3               | 64QAM      | 15      | 0         | 21.55           | 21.68              | 21.69            |                     |
| Channel         |            |         |           | 23017           | 23095              | 23173            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 699.7           | 707.5              | 715.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.54           | 24.50              | 24.53            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.60           | 24.61              | 24.57            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.52           | 24.51              | 24.01            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59           | 24.54              | 24.52            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.64           | 24.56              | 24.58            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.57           | 24.60              | 24.52            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.62           | 23.64              | 23.59            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.87           | 23.93              | 23.87            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.89           | 23.96              | 23.88            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.84           | 23.87              | 23.87            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.64           | 23.58              | 23.62            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.73           | 23.66              | 23.65            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.61           | 23.65              | 23.59            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71           | 22.71              | 22.67            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.59           | 22.76              | 22.76            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.76           | 22.85              | 22.77            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.74           | 22.78              | 22.68            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.55           | 22.72              | 22.74            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.59           | 22.77              | 22.79            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.60           | 22.77              | 22.77            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.44           | 21.65              | 21.61            | 22.7                |

| Band 13         |            |         |           |               |                  |                |                     |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|
| Ant 1           |            |         |           |               |                  |                |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. | Power Middle Ch. | Power High Ch. | Tune-up limit (dbm) |
| Channel         |            |         |           | 23230         |                  |                | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 782           |                  |                |                     |
| 10              | QPSK       | 1       | 0         |               | 24.17            |                | 25.2                |
| 10              | QPSK       | 1       | 25        |               | 24.10            |                |                     |
| 10              | QPSK       | 1       | 49        |               | 24.14            |                |                     |
| 10              | QPSK       | 25      | 0         |               | 23.17            |                | 24.2                |
| 10              | QPSK       | 25      | 12        |               | 23.21            |                |                     |
| 10              | QPSK       | 25      | 25        |               | 23.21            |                |                     |
| 10              | QPSK       | 50      | 0         |               | 23.20            |                | 24.2                |
| 10              | 16QAM      | 1       | 0         |               | 23.42            |                |                     |
| 10              | 16QAM      | 1       | 25        |               | 23.45            |                |                     |
| 10              | 16QAM      | 1       | 49        |               | 23.42            |                | 23.2                |
| 10              | 16QAM      | 25      | 0         |               | 22.20            |                |                     |
| 10              | 16QAM      | 25      | 12        |               | 22.23            |                |                     |
| 10              | 16QAM      | 25      | 25        |               | 22.20            |                | 23.2                |
| 10              | 16QAM      | 50      | 0         |               | 22.23            |                |                     |
| 10              | 64QAM      | 1       | 0         |               | 22.30            |                |                     |
| 10              | 64QAM      | 1       | 25        |               | 22.40            |                | 23.2                |
| 10              | 64QAM      | 1       | 49        |               | 22.34            |                |                     |
| 10              | 64QAM      | 25      | 0         |               | 21.24            |                |                     |
| 10              | 64QAM      | 25      | 12        |               | 21.23            |                | 22.2                |
| 10              | 64QAM      | 25      | 25        |               | 21.25            |                |                     |
| 10              | 64QAM      | 50      | 0         |               | 21.26            |                |                     |
| Channel         |            |         |           | 23205         | 23230            | 23255          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 779.5         | 782              | 784.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.15         | 24.11            | 24.16          | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.16         | 24.14            | 24.11          |                     |
| 5               | QPSK       | 1       | 24        | 24.15         | 24.12            | 24.14          |                     |
| 5               | QPSK       | 12      | 0         | 23.22         | 23.22            | 23.17          | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.28         | 23.20            | 23.19          |                     |
| 5               | QPSK       | 12      | 13        | 23.27         | 23.23            | 23.16          |                     |
| 5               | QPSK       | 25      | 0         | 23.28         | 23.18            | 23.17          | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.38         | 23.42            | 23.37          |                     |
| 5               | 16QAM      | 1       | 12        | 23.39         | 23.40            | 23.32          |                     |
| 5               | 16QAM      | 1       | 24        | 23.46         | 23.41            | 23.37          | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.29         | 22.25            | 22.23          |                     |
| 5               | 16QAM      | 12      | 7         | 22.31         | 22.23            | 22.24          |                     |
| 5               | 16QAM      | 12      | 13        | 22.29         | 22.26            | 22.24          | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.31         | 22.21            | 22.23          |                     |
| 5               | 64QAM      | 1       | 0         | 21.89         | 22.34            | 22.30          |                     |
| 5               | 64QAM      | 1       | 12        | 22.40         | 22.32            | 22.33          | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.38         | 22.38            | 22.32          |                     |
| 5               | 64QAM      | 12      | 0         | 21.34         | 21.30            | 21.26          |                     |
| 5               | 64QAM      | 12      | 7         | 21.32         | 21.26            | 21.25          | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.25         | 21.28            | 21.25          |                     |
| 5               | 64QAM      | 25      | 0         | 20.96         | 21.26            | 21.23          |                     |

| Band 14         |            |         |           |               |                  |                |                     |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|
| Ann 1           |            |         |           |               |                  |                |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. | Power Middle Ch. | Power High Ch. | Tune-up limit (dbm) |
| Channel         |            |         |           | 23330         |                  |                |                     |
| Frequency (MHz) |            |         |           | 793           |                  |                |                     |
| 10              | QPSK       | 1       | 0         |               | 24.59            |                | 25.7                |
| 10              | QPSK       | 1       | 25        |               | 24.53            |                |                     |
| 10              | QPSK       | 1       | 49        |               | 24.43            |                |                     |
| 10              | QPSK       | 25      | 0         |               | 23.56            |                | 24.7                |
| 10              | QPSK       | 25      | 12        |               | 23.56            |                |                     |
| 10              | QPSK       | 25      | 25        |               | 23.59            |                |                     |
| 10              | QPSK       | 50      | 0         |               | 23.53            |                | 24.7                |
| 10              | 16QAM      | 1       | 0         |               | 23.94            |                |                     |
| 10              | 16QAM      | 1       | 25        |               | 23.92            |                |                     |
| 10              | 16QAM      | 1       | 49        |               | 23.83            |                | 23.7                |
| 10              | 16QAM      | 25      | 0         |               | 22.95            |                |                     |
| 10              | 16QAM      | 25      | 12        |               | 22.53            |                |                     |
| 10              | 16QAM      | 25      | 25        |               | 22.58            |                | 23.7                |
| 10              | 16QAM      | 50      | 0         |               | 22.53            |                |                     |
| 10              | 64QAM      | 1       | 0         |               | 22.62            |                |                     |
| 10              | 64QAM      | 1       | 25        |               | 22.64            |                | 23.7                |
| 10              | 64QAM      | 1       | 49        |               | 22.72            |                |                     |
| 10              | 64QAM      | 25      | 0         |               | 21.39            |                |                     |
| 10              | 64QAM      | 25      | 12        |               | 21.38            |                | 22.7                |
| 10              | 64QAM      | 25      | 25        |               | 21.58            |                |                     |
| 10              | 64QAM      | 50      | 0         |               | 21.44            |                |                     |
| Channel         |            |         |           | 23305         | 23330            | 23355          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 790.5         | 793              | 795.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.51         | 24.49            | 24.44          | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.58         | 24.56            | 24.56          |                     |
| 5               | QPSK       | 1       | 24        | 24.54         | 24.49            | 24.43          |                     |
| 5               | QPSK       | 12      | 0         | 23.59         | 23.56            | 23.51          | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.66         | 23.57            | 23.53          |                     |
| 5               | QPSK       | 12      | 13        | 23.59         | 23.56            | 23.55          |                     |
| 5               | QPSK       | 25      | 0         | 23.58         | 23.53            | 23.50          | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.63         | 23.60            | 23.62          |                     |
| 5               | 16QAM      | 1       | 12        | 23.68         | 23.66            | 23.67          |                     |
| 5               | 16QAM      | 1       | 24        | 23.87         | 23.80            | 23.78          | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64         | 22.57            | 22.55          |                     |
| 5               | 16QAM      | 12      | 7         | 22.64         | 22.64            | 22.58          |                     |
| 5               | 16QAM      | 12      | 13        | 22.61         | 22.59            | 22.58          | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.66         | 22.54            | 22.52          |                     |
| 5               | 64QAM      | 1       | 0         | 22.60         | 22.51            | 22.49          |                     |
| 5               | 64QAM      | 1       | 12        | 22.57         | 22.35            | 22.58          | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.32         | 22.41            | 22.77          |                     |
| 5               | 64QAM      | 12      | 0         | 21.50         | 21.32            | 21.31          |                     |
| 5               | 64QAM      | 12      | 7         | 21.44         | 21.28            | 21.63          | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.31         | 21.27            | 21.61          |                     |
| 5               | 64QAM      | 25      | 0         | 21.34         | 21.26            | 21.51          |                     |

| Band 17         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |
| 10              | QPSK       | 1       | 0         | 24.60           | 24.58              | 24.55            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.61           | 24.62              | 24.59            |                     |
| 10              | QPSK       | 1       | 49        | 24.64           | 24.67              | 24.63            |                     |
| 10              | QPSK       | 25      | 0         | 23.65           | 23.68              | 23.66            |                     |
| 10              | QPSK       | 25      | 12        | 23.79           | 23.75              | 23.70            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.81           | 23.82              | 23.80            |                     |
| 10              | QPSK       | 50      | 0         | 23.69           | 23.72              | 23.69            |                     |
| 10              | 16QAM      | 1       | 0         | 23.93           | 23.95              | 23.94            |                     |
| 10              | 16QAM      | 1       | 25        | 24.03           | 24.06              | 24.01            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 24.01           | 24.02              | 23.98            |                     |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.85              | 22.85            |                     |
| 10              | 16QAM      | 25      | 12        | 22.79           | 22.75              | 22.73            |                     |
| 10              | 16QAM      | 25      | 25        | 22.78           | 22.77              | 22.78            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.69           | 22.69              | 22.67            |                     |
| 10              | 64QAM      | 1       | 0         | 22.64           | 22.70              | 22.79            |                     |
| 10              | 64QAM      | 1       | 25        | 22.72           | 22.67              | 22.63            |                     |
| 10              | 64QAM      | 1       | 49        | 22.84           | 22.76              | 22.59            | 23.7                |
| 10              | 64QAM      | 25      | 0         | 21.42           | 21.42              | 21.41            |                     |
| 10              | 64QAM      | 25      | 12        | 21.51           | 21.48              | 21.48            |                     |
| 10              | 64QAM      | 25      | 25        | 21.61           | 21.67              | 21.66            |                     |
| 10              | 64QAM      | 50      | 0         | 21.53           | 21.64              | 21.57            | 22.7                |
| Channel         |            |         |           | 23785           | 23790              | 23825            |                     |
| Frequency (MHz) |            |         |           | 706.5           | 710                | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.57           | 24.58              | 24.58            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.66           | 24.65              | 24.63            |                     |
| 5               | QPSK       | 1       | 24        | 24.65           | 24.66              | 24.64            |                     |
| 5               | QPSK       | 12      | 0         | 23.66           | 23.69              | 23.67            |                     |
| 5               | QPSK       | 12      | 7         | 23.76           | 23.76              | 23.78            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.74           | 23.77              | 23.73            |                     |
| 5               | QPSK       | 25      | 0         | 23.74           | 23.71              | 23.75            |                     |
| 5               | 16QAM      | 1       | 0         | 23.91           | 23.93              | 23.91            |                     |
| 5               | 16QAM      | 1       | 12        | 23.95           | 23.97              | 23.96            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 24.00           | 24.05              | 23.99            |                     |
| 5               | 16QAM      | 12      | 0         | 22.73           | 22.71              | 22.74            |                     |
| 5               | 16QAM      | 12      | 7         | 22.79           | 22.77              | 22.79            |                     |
| 5               | 16QAM      | 12      | 13        | 22.77           | 22.80              | 22.77            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.74           | 22.76              | 22.77            |                     |
| 5               | 64QAM      | 1       | 0         | 22.26           | 22.42              | 22.71            |                     |
| 5               | 64QAM      | 1       | 12        | 22.62           | 22.61              | 22.61            |                     |
| 5               | 64QAM      | 1       | 24        | 22.53           | 22.52              | 22.48            | 23.7                |
| 5               | 64QAM      | 12      | 0         | 21.55           | 21.47              | 21.65            |                     |
| 5               | 64QAM      | 12      | 7         | 21.69           | 21.47              | 21.76            |                     |
| 5               | 64QAM      | 12      | 13        | 21.66           | 21.50              | 21.70            |                     |
| 5               | 64QAM      | 25      | 0         | 21.52           | 21.44              | 21.59            | 22.7                |



| Band 25         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26140           | 26340              | 26590            |                     |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |
| 20              | QPSK       | 1       | 0         | 18.30           | 18.31              | 18.23            | 20.2                |
| 20              | QPSK       | 1       | 49        | 18.21           | 18.26              | 18.23            |                     |
| 20              | QPSK       | 1       | 99        | 18.24           | 18.20              | 18.21            |                     |
| 20              | QPSK       | 50      | 0         | 18.35           | 18.32              | 18.28            | 20.2                |
| 20              | QPSK       | 50      | 24        | 18.40           | 18.43              | 18.35            |                     |
| 20              | QPSK       | 50      | 50        | 18.33           | 18.37              | 18.33            |                     |
| 20              | QPSK       | 100     | 0         | 18.40           | 18.42              | 18.29            | 20.2                |
| 20              | 16QAM      | 1       | 0         | 18.65           | 18.63              | 18.61            |                     |
| 20              | 16QAM      | 1       | 49        | 18.57           | 18.61              | 18.55            |                     |
| 20              | 16QAM      | 1       | 99        | 18.46           | 18.55              | 18.48            | 20.2                |
| 20              | 16QAM      | 50      | 0         | 18.36           | 18.39              | 18.33            |                     |
| 20              | 16QAM      | 50      | 24        | 18.40           | 18.45              | 18.31            |                     |
| 20              | 16QAM      | 50      | 50        | 18.36           | 18.41              | 18.36            | 20.2                |
| 20              | 16QAM      | 100     | 0         | 18.39           | 18.40              | 18.32            |                     |
| 20              | 64QAM      | 1       | 0         | 18.55           | 18.49              | 18.48            |                     |
| 20              | 64QAM      | 1       | 49        | 18.49           | 18.51              | 18.43            | 20.2                |
| 20              | 64QAM      | 1       | 99        | 18.44           | 18.43              | 18.47            |                     |
| 20              | 64QAM      | 50      | 0         | 18.38           | 18.38              | 18.32            |                     |
| 20              | 64QAM      | 50      | 24        | 18.42           | 18.46              | 18.33            | 20.2                |
| 20              | 64QAM      | 50      | 50        | 18.36           | 18.39              | 18.37            |                     |
| 20              | 64QAM      | 100     | 0         | 18.39           | 18.44              | 18.31            |                     |
| Channel         |            |         |           | 26115           | 26340              | 26615            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5          | 1880               | 1907.5           |                     |
| 15              | QPSK       | 1       | 0         | 18.30           | 18.22              | 18.20            | 20.2                |
| 15              | QPSK       | 1       | 37        | 18.24           | 18.25              | 18.21            |                     |
| 15              | QPSK       | 1       | 74        | 18.22           | 18.23              | 18.21            |                     |
| 15              | QPSK       | 36      | 0         | 18.29           | 18.25              | 18.25            | 20.2                |
| 15              | QPSK       | 36      | 20        | 18.30           | 18.39              | 18.28            |                     |
| 15              | QPSK       | 36      | 39        | 18.28           | 18.33              | 18.28            |                     |
| 15              | QPSK       | 75      | 0         | 18.31           | 18.36              | 18.28            | 20.2                |
| 15              | 16QAM      | 1       | 0         | 18.64           | 18.63              | 18.55            |                     |
| 15              | 16QAM      | 1       | 37        | 18.57           | 18.58              | 18.52            |                     |
| 15              | 16QAM      | 1       | 74        | 18.37           | 18.45              | 18.43            | 20.2                |
| 15              | 16QAM      | 36      | 0         | 18.32           | 18.31              | 18.27            |                     |
| 15              | 16QAM      | 36      | 20        | 18.34           | 18.43              | 18.31            |                     |
| 15              | 16QAM      | 36      | 39        | 18.32           | 18.41              | 18.29            | 20.2                |
| 15              | 16QAM      | 75      | 0         | 18.39           | 18.31              | 18.32            |                     |
| 15              | 64QAM      | 1       | 0         | 18.50           | 18.44              | 18.45            |                     |
| 15              | 64QAM      | 1       | 37        | 18.39           | 18.50              | 18.34            | 20.2                |
| 15              | 64QAM      | 1       | 74        | 18.42           | 18.40              | 18.44            |                     |
| 15              | 64QAM      | 36      | 0         | 18.31           | 18.29              | 18.22            |                     |
| 15              | 64QAM      | 36      | 20        | 18.33           | 18.45              | 18.24            | 20.2                |
| 15              | 64QAM      | 36      | 39        | 18.33           | 18.37              | 18.37            |                     |
| 15              | 64QAM      | 75      | 0         | 18.30           | 18.43              | 18.25            |                     |
| Channel         |            |         |           | 26090           | 26340              | 26640            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1885            | 1880               | 1910             |                     |
| 10              | QPSK       | 1       | 0         | 18.23           | 18.27              | 18.22            | 20.2                |
| 10              | QPSK       | 1       | 25        | 18.21           | 18.25              | 18.21            |                     |
| 10              | QPSK       | 1       | 49        | 18.24           | 18.23              | 18.23            |                     |
| 10              | QPSK       | 25      | 0         | 18.31           | 18.27              | 18.24            | 20.2                |
| 10              | QPSK       | 25      | 12        | 18.30           | 18.36              | 18.26            |                     |
| 10              | QPSK       | 25      | 25        | 18.23           | 18.37              | 18.27            |                     |
| 10              | QPSK       | 50      | 0         | 18.34           | 18.37              | 18.26            | 20.2                |
| 10              | 16QAM      | 1       | 0         | 18.63           | 18.53              | 18.52            |                     |
| 10              | 16QAM      | 1       | 25        | 18.50           | 18.52              | 18.52            |                     |
| 10              | 16QAM      | 1       | 49        | 18.36           | 18.50              | 18.43            | 20.2                |
| 10              | 16QAM      | 25      | 0         | 18.33           | 18.35              | 18.27            |                     |
| 10              | 16QAM      | 25      | 12        | 18.40           | 18.44              | 18.21            |                     |
| 10              | 16QAM      | 25      | 25        | 18.34           | 18.34              | 18.34            | 20.2                |
| 10              | 16QAM      | 50      | 0         | 18.29           | 18.31              | 18.26            |                     |
| 10              | 64QAM      | 1       | 0         | 18.53           | 18.40              | 18.45            |                     |
| 10              | 64QAM      | 1       | 25        | 18.48           | 18.41              | 18.41            | 20.2                |
| 10              | 64QAM      | 1       | 49        | 18.34           | 18.33              | 18.36            |                     |
| 10              | 64QAM      | 25      | 0         | 18.31           | 18.34              | 18.24            |                     |
| 10              | 64QAM      | 25      | 12        | 18.40           | 18.45              | 18.32            | 20.2                |
| 10              | 64QAM      | 25      | 25        | 18.28           | 18.32              | 18.28            |                     |
| 10              | 64QAM      | 50      | 0         | 18.34           | 18.42              | 18.27            |                     |
| Channel         |            |         |           | 26065           | 26340              | 26665            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5          | 1880               | 1912.5           |                     |
| 5               | QPSK       | 1       | 0         | 18.29           | 18.31              | 18.22            | 20.2                |
| 5               | QPSK       | 1       | 12        | 18.25           | 18.20              | 18.23            |                     |
| 5               | QPSK       | 1       | 24        | 18.24           | 18.22              | 18.24            |                     |
| 5               | QPSK       | 12      | 0         | 18.32           | 18.25              | 18.23            | 20.2                |
| 5               | QPSK       | 12      | 7         | 18.30           | 18.37              | 18.25            |                     |
| 5               | QPSK       | 12      | 13        | 18.24           | 18.29              | 18.23            |                     |
| 5               | QPSK       | 25      | 0         | 18.39           | 18.36              | 18.21            | 20.2                |
| 5               | 16QAM      | 1       | 0         | 18.57           | 18.56              | 18.51            |                     |
| 5               | 16QAM      | 1       | 12        | 18.48           | 18.58              | 18.45            |                     |
| 5               | 16QAM      | 1       | 24        | 18.37           | 18.55              | 18.44            | 20.2                |
| 5               | 16QAM      | 12      | 0         | 18.30           | 18.39              | 18.26            |                     |
| 5               | 16QAM      | 12      | 7         | 18.32           | 18.43              | 18.24            |                     |
| 5               | 16QAM      | 12      | 13        | 18.29           | 18.34              | 18.28            | 20.2                |
| 5               | 16QAM      | 25      | 0         | 18.36           | 18.33              | 18.24            |                     |
| 5               | 64QAM      | 1       | 0         | 18.55           | 18.47              | 18.45            |                     |
| 5               | 64QAM      | 1       | 12        | 18.42           | 18.42              | 18.38            | 20.2                |
| 5               | 64QAM      | 1       | 24        | 18.41           | 18.40              | 18.43            |                     |
| 5               | 64QAM      | 12      | 0         | 18.30           | 18.33              | 18.28            |                     |
| 5               | 64QAM      | 12      | 7         | 18.41           | 18.39              | 18.26            | 20.2                |
| 5               | 64QAM      | 12      | 13        | 18.34           | 18.36              | 18.31            |                     |
| 5               | 64QAM      | 25      | 0         | 18.38           | 18.43              | 18.25            |                     |
| Channel         |            |         |           | 26055           | 26340              | 26675            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1851.5          | 1880               | 1913.5           |                     |
| 3               | QPSK       | 1       | 0         | 18.22           | 18.24              | 18.24            | 20.2                |
| 3               | QPSK       | 1       | 8         | 18.23           | 18.21              | 18.20            |                     |
| 3               | QPSK       | 1       | 14        | 18.21           | 18.22              | 18.21            |                     |
| 3               | QPSK       | 8       | 0         | 18.35           | 18.28              | 18.28            | 20.2                |
| 3               | QPSK       | 8       | 4         | 18.30           | 18.36              | 18.33            |                     |
| 3               | QPSK       | 8       | 7         | 18.29           | 18.35              | 18.33            |                     |
| 3               | QPSK       | 15      | 0         | 18.35           | 18.40              | 18.26            | 20.2                |
| 3               | 16QAM      | 1       | 0         | 18.59           | 18.53              | 18.61            |                     |
| 3               | 16QAM      | 1       | 8         | 18.52           | 18.53              | 18.50            |                     |
| 3               | 16QAM      | 1       | 14        | 18.36           | 18.51              | 18.39            | 20.2                |
| 3               | 16QAM      | 8       | 0         | 18.32           | 18.34              | 18.32            |                     |
| 3               | 16QAM      | 8       | 4         | 18.31           | 18.43              | 18.29            |                     |
| 3               | 16QAM      | 8       | 7         | 18.31           | 18.32              | 18.28            | 20.2                |
| 3               | 16QAM      | 15      | 0         | 18.34           | 18.35              | 18.31            |                     |
| 3               | 64QAM      | 1       | 0         | 18.52           | 18.44              | 18.45            |                     |
| 3               | 64QAM      | 1       | 8         | 18.45           | 18.50              | 18.33            | 20.2                |
| 3               | 64QAM      | 1       | 14        | 18.41           | 18.37              | 18.47            |                     |
| 3               | 64QAM      | 8       | 0         | 18.36           | 18.30              | 18.31            |                     |
| 3               | 64QAM      | 8       | 4         | 18.34           | 18.42              | 18.32            | 20.2                |
| 3               | 64QAM      | 8       | 7         | 18.32           | 18.35              | 18.37            |                     |
| 3               | 64QAM      | 15      | 0         | 18.33           | 18.41              | 18.27            |                     |
| Channel         |            |         |           | 26047           | 26340              | 26683            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1850.7          | 1880               | 1914.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 18.30           | 18.26              | 18.24            | 20.2                |
| 1.4             | QPSK       | 1       | 3         | 18.23           | 18.25              | 18.21            |                     |
| 1.4             | QPSK       | 1       | 5         | 18.24           | 18.25              | 18.22            |                     |
| 1.4             | QPSK       | 3       | 0         | 18.25           | 18.32              | 18.23            | 20.2                |
| 1.4             | QPSK       | 3       | 1         | 18.38           | 18.33              | 18.35            |                     |
| 1.4             | QPSK       | 3       | 3         | 18.32           | 18.28              | 18.33            |                     |
| 1.4             | QPSK       | 6       | 0         | 18.37           | 18.42              | 18.24            | 20.2                |
| 1.4             | 16QAM      | 1       | 0         | 18.55           | 18.55              | 18.56            |                     |
| 1.4             | 16QAM      | 1       | 3         | 18.49           | 18.57              | 18.55            |                     |
| 1.4             | 16QAM      | 1       | 5         | 18.44           | 18.48              | 18.42            | 20.2                |
| 1.4             | 16QAM      | 3       | 0         | 18.28           | 18.30              | 18.28            |                     |
| 1.4             | 16QAM      | 3       | 1         | 18.35           | 18.45              | 18.28            |                     |
| 1.4             | 16QAM      | 3       | 3         | 18.34           | 18.36              | 18.29            | 20.2                |
| 1.4             | 16QAM      | 6       | 0         | 18.39           | 18.34              | 18.22            |                     |
| 1.4             | 64QAM      | 1       | 0         | 18.54           | 18.41              | 18.40            |                     |
| 1.4             | 64QAM      | 1       | 3         | 18.45           | 18.46              | 18.40            | 20.2                |
| 1.4             | 64QAM      | 1       | 5         | 18.42           | 18.38              | 18.45            |                     |
| 1.4             | 64QAM      | 3       | 0         | 18.37           | 18.28              | 18.30            |                     |
| 1.4             | 64QAM      | 3       | 1         | 18.33           | 18.36              | 18.33            | 20.2                |
| 1.4             | 64QAM      | 3       | 3         | 18.29           | 18.35              | 18.34            |                     |
| 1.4             | 64QAM      | 6       | 0         | 18.30           | 18.40              | 18.21            |                     |



| Band 26         |            |         |           |                 |                    |                  |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|--|--|--|--|
| Ant 1           |            |         |           |                 |                    |                  |                     |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 26765           | 26865              | 26965            |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 821.5           | 831.5              | 841.5            |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 24.45           | 24.40              | 24.62            | 25.7                |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 24.34           | 24.39              | 24.39            |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 24.35           | 24.39              | 24.31            |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.51           | 23.51              | 23.54            | 24.7                |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.52           | 23.49              | 23.50            |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.50           | 23.51              | 23.49            |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.54           | 23.48              | 23.52            | 24.7                |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.79           | 23.73              | 23.79            |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.67           | 23.73              | 23.74            |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.64           | 23.68              | 23.59            | 23.7                |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.51           | 22.54              | 22.56            |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.53           | 22.51              | 22.50            |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.50           | 22.53              | 22.54            | 23.7                |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.54           | 22.51              | 22.55            |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.48           | 22.58              | 22.61            | 23.7                |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.43           | 22.68              | 22.68            |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.57           | 22.61              | 21.80            |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.21           | 21.58              | 21.60            | 22.7                |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.40           | 21.53              | 21.54            |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.54           | 21.58              | 21.28            |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.75           | 21.51              | 21.47            | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 26740           | 26865              | 26990            |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 819             | 831.5              | 844              |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 24.56           | 24.50              | 24.50            | 25.7                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 24.44           | 24.47              | 24.45            |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 24.46           | 24.49              | 24.37            |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.64           | 23.56              | 23.57            | 24.7                |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.58           | 23.54              | 23.57            |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.53           | 23.57              | 23.49            |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.57           | 23.53              | 23.49            | 24.7                |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.92           | 23.87              | 23.87            |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.85           | 23.87              | 23.86            |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.86           | 23.90              | 23.75            | 23.7                |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.62           | 22.57              | 22.57            |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.60           | 22.55              | 22.57            |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.53           | 22.58              | 22.53            | 23.7                |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.58           | 22.54              | 22.54            |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.49           | 22.73              | 22.76            |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.33           | 22.80              | 22.64            | 23.7                |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.74           | 22.81              | 21.98            |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.24           | 21.61              | 21.61            |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.16           | 21.61              | 21.57            | 22.7                |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.31           | 21.58              | 20.89            |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.26           | 21.57              | 21.38            |                     |  |  |  |  |
| Channel         |            |         |           | 26715           | 26865              | 27015            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 816.5           | 831.5              | 846.5            |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 24.61           | 24.51              | 24.54            | 25.7                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 24.56           | 24.55              | 24.17            |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 24.46           | 24.53              | 24.41            |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.64           | 23.59              | 23.60            | 24.7                |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.63           | 23.63              | 23.33            |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.58           | 23.56              | 23.38            |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.64           | 23.54              | 23.39            | 24.7                |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.95           | 23.85              | 23.86            |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.84           | 23.87              | 23.49            |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.77           | 23.88              | 23.69            | 23.7                |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.71           | 22.83              | 22.61            |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.67           | 22.64              | 22.48            |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.55           | 22.59              | 22.45            | 23.7                |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.61           | 22.56              | 22.57            |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.36           | 22.77              | 22.28            |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.31           | 22.76              | 21.70            | 23.7                |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.14           | 22.79              | 21.71            |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.36           | 21.70              | 20.92            |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.29           | 21.69              | 20.95            | 22.7                |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.16           | 21.65              | 20.83            |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.20           | 21.58              | 20.73            |                     |  |  |  |  |
| Channel         |            |         |           | 26705           | 26865              | 27025            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 815.5           | 831.5              | 847.5            |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 24.59           | 24.50              | 24.25            | 25.7                |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 24.60           | 24.57              | 24.26            |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 24.46           | 24.50              | 24.37            |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.89           | 23.57              | 23.20            | 24.7                |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.68           | 23.63              | 23.32            |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.61           | 23.55              | 23.49            |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.66           | 23.58              | 23.29            | 24.7                |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.93           | 23.83              | 23.53            |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 23.92           | 23.91              | 23.53            |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.81           | 23.90              | 23.67            | 23.7                |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.74           | 22.63              | 22.36            |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.75           | 22.67              | 22.45            |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.65           | 22.66              | 22.54            | 23.7                |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.64           | 22.59              | 22.44            |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.41           | 22.74              | 21.71            |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.49           | 22.84              | 21.84            | 23.7                |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.30           | 22.80              | 21.76            |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.40           | 21.65              | 20.75            |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.44           | 21.72              | 20.79            | 22.7                |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.37           | 21.63              | 20.72            |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.36           | 21.60              | 20.82            |                     |  |  |  |  |
| Channel         |            |         |           | 26697           | 26865              | 27033            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 814.7           | 831.5              | 848.3            |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.54           | 24.43              | 24.20            | 25.7                |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.56           | 24.54              | 24.39            |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.45           | 24.41              | 24.28            |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.56           | 24.43              | 24.39            | 24.7                |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.58           | 24.46              | 24.40            |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.53           | 24.46              | 24.36            |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.80           | 23.53              | 23.42            | 24.7                |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.86           | 23.73              | 23.57            |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.90           | 23.90              | 23.76            |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.79           | 23.75              | 23.66            | 24.7                |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.62           | 23.52              | 23.44            |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.67           | 23.57              | 23.51            |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.58           | 23.54              | 23.43            | 23.7                |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.66           | 22.58              | 22.52            |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.39           | 22.67              | 21.78            |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.45           | 22.75              | 21.75            | 23.7                |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.41           | 22.65              | 21.74            |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.39           | 22.66              | 21.80            |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.46           | 22.69              | 21.71            | 22.7                |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.43           | 22.64              | 21.82            |                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.34           | 21.56              | 20.84            |                     |  |  |  |  |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ann 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 2771.0         |                   |                 |                     |
| Frequency (MHz) |            |         |           | 2310           |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 20.72             |                 | 22.3                |
| 10              | QPSK       | 1       | 25        |                | 20.49             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 20.50             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 20.56             |                 | 22.3                |
| 10              | QPSK       | 25      | 12        |                | 20.61             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 20.70             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 20.59             |                 | 22.3                |
| 10              | 16QAM      | 1       | 0         |                | 20.87             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 20.86             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 20.88             |                 | 22.3                |
| 10              | 16QAM      | 25      | 0         |                | 20.53             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.56             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 20.68             |                 | 22.3                |
| 10              | 16QAM      | 50      | 0         |                | 20.56             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 20.74             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 20.80             |                 | 22.3                |
| 10              | 64QAM      | 1       | 49        |                | 20.77             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.75             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 19.81             |                 | 21.3                |
| 10              | 64QAM      | 25      | 25        |                | 19.89             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 19.78             |                 |                     |
| Channel         |            |         |           | 2788.5         | 2771.0            | 2773.5          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5         | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 20.44          | 20.48             | 20.45           | 22.3                |
| 5               | QPSK       | 1       | 12        | 20.53          | 20.62             | 20.56           |                     |
| 5               | QPSK       | 1       | 24        | 20.60          | 20.60             | 20.52           |                     |
| 5               | QPSK       | 12      | 0         | 20.63          | 20.55             | 20.59           | 22.3                |
| 5               | QPSK       | 12      | 7         | 20.66          | 20.67             | 20.62           |                     |
| 5               | QPSK       | 12      | 13        | 20.65          | 20.66             | 20.59           |                     |
| 5               | QPSK       | 25      | 0         | 20.66          | 20.54             | 20.55           | 22.3                |
| 5               | 16QAM      | 1       | 0         | 20.77          | 20.76             | 20.76           |                     |
| 5               | 16QAM      | 1       | 12        | 20.87          | 20.85             | 20.86           |                     |
| 5               | 16QAM      | 1       | 24        | 20.81          | 20.82             | 20.85           | 22.3                |
| 5               | 16QAM      | 12      | 0         | 20.60          | 20.53             | 20.59           |                     |
| 5               | 16QAM      | 12      | 7         | 20.64          | 20.65             | 20.65           |                     |
| 5               | 16QAM      | 12      | 13        | 20.65          | 20.64             | 20.64           | 22.3                |
| 5               | 16QAM      | 25      | 0         | 20.64          | 20.57             | 20.63           |                     |
| 5               | 64QAM      | 1       | 0         | 20.70          | 20.71             | 20.72           |                     |
| 5               | 64QAM      | 1       | 12        | 20.73          | 20.75             | 20.74           | 22.3                |
| 5               | 64QAM      | 1       | 24        | 20.82          | 20.83             | 20.84           |                     |
| 5               | 64QAM      | 12      | 0         | 19.84          | 19.80             | 19.83           |                     |
| 5               | 64QAM      | 12      | 7         | 19.89          | 19.89             | 19.87           | 21.3                |
| 5               | 64QAM      | 12      | 13        | 19.90          | 19.89             | 19.87           |                     |
| 5               | 64QAM      | 25      | 0         | 19.84          | 19.77             | 19.81           |                     |





| Band 66         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 132072          | 132322             | 132592           |                     |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |
| 20              | QPSK       | 1       | 0         | 18.83           | 18.90              | 18.88            | 20.8                |
| 20              | QPSK       | 1       | 49        | 18.80           | 18.82              | 18.86            |                     |
| 20              | QPSK       | 1       | 99        | 18.82           | 18.88              | 18.82            |                     |
| 20              | QPSK       | 50      | 0         | 18.80           | 18.81              | 18.80            | 20.8                |
| 20              | QPSK       | 50      | 24        | 18.80           | 18.82              | 18.81            |                     |
| 20              | QPSK       | 50      | 50        | 18.81           | 18.83              | 18.81            |                     |
| 20              | QPSK       | 100     | 0         | 18.86           | 18.84              | 18.94            | 20.8                |
| 20              | 16QAM      | 1       | 0         | 19.13           | 19.15              | 19.23            |                     |
| 20              | 16QAM      | 1       | 49        | 19.04           | 19.08              | 19.11            |                     |
| 20              | 16QAM      | 1       | 99        | 19.19           | 19.09              | 19.08            | 20.8                |
| 20              | 16QAM      | 50      | 0         | 18.87           | 18.91              | 18.98            |                     |
| 20              | 16QAM      | 50      | 24        | 18.94           | 18.90              | 18.93            |                     |
| 20              | 16QAM      | 50      | 50        | 18.91           | 18.94              | 19.00            | 20.8                |
| 20              | 16QAM      | 100     | 0         | 18.90           | 18.88              | 18.96            |                     |
| 20              | 64QAM      | 1       | 0         | 19.04           | 19.05              | 19.03            | 20.8                |
| 20              | 64QAM      | 1       | 49        | 18.92           | 18.91              | 18.87            |                     |
| 20              | 64QAM      | 1       | 99        | 19.06           | 19.05              | 18.97            |                     |
| 20              | 64QAM      | 50      | 0         | 18.89           | 18.93              | 19.01            | 20.8                |
| 20              | 64QAM      | 50      | 24        | 18.95           | 18.90              | 18.94            |                     |
| 20              | 64QAM      | 50      | 50        | 18.92           | 18.95              | 18.98            |                     |
| 20              | 64QAM      | 100     | 0         | 18.93           | 18.88              | 18.95            |                     |
| Channel         |            |         |           | 132047          | 132322             | 132597           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5          | 1745               | 1772.5           |                     |
| 15              | QPSK       | 1       | 0         | 18.80           | 18.83              | 18.88            | 20.8                |
| 15              | QPSK       | 1       | 37        | 18.80           | 18.80              | 18.80            |                     |
| 15              | QPSK       | 1       | 74        | 18.80           | 18.82              | 18.80            |                     |
| 15              | QPSK       | 36      | 0         | 18.81           | 18.90              | 18.94            | 20.8                |
| 15              | QPSK       | 36      | 20        | 18.88           | 18.83              | 18.93            |                     |
| 15              | QPSK       | 36      | 39        | 18.88           | 18.91              | 18.99            |                     |
| 15              | QPSK       | 75      | 0         | 18.89           | 18.86              | 18.94            | 20.8                |
| 15              | 16QAM      | 1       | 0         | 19.12           | 19.15              | 19.17            |                     |
| 15              | 16QAM      | 1       | 37        | 19.03           | 19.06              | 19.12            |                     |
| 15              | 16QAM      | 1       | 74        | 19.12           | 19.13              | 19.10            | 20.8                |
| 15              | 16QAM      | 36      | 0         | 18.86           | 18.90              | 18.95            |                     |
| 15              | 16QAM      | 36      | 20        | 18.92           | 18.86              | 18.90            |                     |
| 15              | 16QAM      | 36      | 39        | 18.90           | 18.95              | 18.98            | 20.8                |
| 15              | 16QAM      | 75      | 0         | 18.94           | 18.87              | 18.94            |                     |
| 15              | 64QAM      | 1       | 0         | 19.04           | 18.96              | 19.04            |                     |
| 15              | 64QAM      | 1       | 37        | 18.96           | 19.00              | 19.04            | 20.8                |
| 15              | 64QAM      | 1       | 74        | 19.02           | 19.04              | 19.02            |                     |
| 15              | 64QAM      | 36      | 0         | 18.87           | 18.94              | 18.97            |                     |
| 15              | 64QAM      | 36      | 20        | 18.91           | 18.89              | 18.93            | 20.8                |
| 15              | 64QAM      | 36      | 39        | 18.91           | 18.97              | 19.00            |                     |
| 15              | 64QAM      | 75      | 0         | 18.92           | 18.89              | 18.93            |                     |
| Channel         |            |         |           | 132022          | 132322             | 132622           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715            | 1745               | 1775             |                     |
| 10              | QPSK       | 1       | 0         | 18.81           | 18.83              | 18.89            | 20.8                |
| 10              | QPSK       | 1       | 25        | 18.80           | 18.83              | 18.88            |                     |
| 10              | QPSK       | 1       | 49        | 18.80           | 18.82              | 18.88            |                     |
| 10              | QPSK       | 25      | 0         | 18.82           | 18.86              | 18.92            | 20.8                |
| 10              | QPSK       | 25      | 12        | 18.90           | 18.89              | 18.94            |                     |
| 10              | QPSK       | 25      | 25        | 18.86           | 18.95              | 18.98            |                     |
| 10              | QPSK       | 50      | 0         | 18.89           | 18.90              | 18.96            | 20.8                |
| 10              | 16QAM      | 1       | 0         | 19.21           | 19.22              | 19.17            |                     |
| 10              | 16QAM      | 1       | 25        | 19.12           | 19.20              | 19.14            |                     |
| 10              | 16QAM      | 1       | 49        | 19.12           | 19.17              | 19.15            | 20.8                |
| 10              | 16QAM      | 25      | 0         | 18.91           | 18.99              | 18.96            |                     |
| 10              | 16QAM      | 25      | 12        | 18.94           | 18.91              | 18.99            |                     |
| 10              | 16QAM      | 25      | 25        | 18.89           | 18.96              | 19.00            | 20.8                |
| 10              | 16QAM      | 50      | 0         | 18.92           | 18.89              | 18.95            |                     |
| 10              | 64QAM      | 1       | 0         | 19.04           | 19.07              | 19.11            |                     |
| 10              | 64QAM      | 1       | 25        | 19.05           | 19.11              | 19.18            | 20.8                |
| 10              | 64QAM      | 1       | 49        | 18.99           | 18.99              | 19.20            |                     |
| 10              | 64QAM      | 25      | 0         | 18.92           | 18.92              | 19.00            |                     |
| 10              | 64QAM      | 25      | 12        | 18.95           | 18.93              | 19.03            | 20.8                |
| 10              | 64QAM      | 25      | 25        | 18.90           | 18.96              | 19.08            |                     |
| 10              | 64QAM      | 50      | 0         | 18.94           | 18.92              | 19.02            |                     |
| Channel         |            |         |           | 131997          | 132322             | 132647           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5          | 1745               | 1777.5           |                     |
| 5               | QPSK       | 1       | 0         | 18.80           | 18.80              | 18.87            | 20.8                |
| 5               | QPSK       | 1       | 12        | 18.87           | 18.80              | 18.95            |                     |
| 5               | QPSK       | 1       | 24        | 18.80           | 18.84              | 18.91            |                     |
| 5               | QPSK       | 12      | 0         | 18.92           | 18.88              | 19.00            | 20.8                |
| 5               | QPSK       | 12      | 7         | 18.93           | 18.96              | 19.06            |                     |
| 5               | QPSK       | 12      | 13        | 18.92           | 18.95              | 19.02            |                     |
| 5               | QPSK       | 25      | 0         | 18.91           | 18.87              | 18.99            | 20.8                |
| 5               | 16QAM      | 1       | 0         | 19.14           | 19.11              | 19.16            |                     |
| 5               | 16QAM      | 1       | 12        | 19.18           | 19.14              | 19.19            |                     |
| 5               | 16QAM      | 1       | 24        | 19.10           | 19.19              | 19.20            | 20.8                |
| 5               | 16QAM      | 12      | 0         | 18.93           | 18.93              | 19.06            |                     |
| 5               | 16QAM      | 12      | 7         | 18.96           | 19.02              | 19.08            |                     |
| 5               | 16QAM      | 12      | 13        | 18.95           | 18.99              | 19.02            | 20.8                |
| 5               | 16QAM      | 25      | 0         | 18.92           | 18.92              | 19.03            |                     |
| 5               | 64QAM      | 1       | 0         | 19.10           | 19.04              | 19.14            |                     |
| 5               | 64QAM      | 1       | 12        | 19.11           | 19.11              | 19.12            | 20.8                |
| 5               | 64QAM      | 1       | 24        | 19.07           | 19.09              | 19.09            |                     |
| 5               | 64QAM      | 12      | 0         | 18.96           | 18.97              | 19.12            |                     |
| 5               | 64QAM      | 12      | 7         | 18.97           | 19.02              | 19.11            | 20.8                |
| 5               | 64QAM      | 12      | 13        | 18.96           | 19.00              | 19.10            |                     |
| 5               | 64QAM      | 25      | 0         | 18.91           | 18.89              | 19.05            |                     |
| Channel         |            |         |           | 131987          | 132322             | 132657           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5          | 1745               | 1778.5           |                     |
| 3               | QPSK       | 1       | 0         | 18.82           | 18.80              | 18.82            | 20.8                |
| 3               | QPSK       | 1       | 8         | 18.91           | 18.86              | 18.86            |                     |
| 3               | QPSK       | 1       | 14        | 18.86           | 18.80              | 18.84            |                     |
| 3               | QPSK       | 8       | 0         | 18.89           | 18.83              | 18.82            | 20.8                |
| 3               | QPSK       | 8       | 4         | 18.86           | 18.90              | 18.93            |                     |
| 3               | QPSK       | 8       | 7         | 18.93           | 18.89              | 18.90            |                     |
| 3               | QPSK       | 15      | 0         | 18.91           | 18.81              | 18.91            | 20.8                |
| 3               | 16QAM      | 1       | 0         | 19.07           | 19.06              | 19.16            |                     |
| 3               | 16QAM      | 1       | 8         | 19.15           | 19.11              | 19.16            |                     |
| 3               | 16QAM      | 1       | 14        | 19.15           | 19.09              | 19.13            | 20.8                |
| 3               | 16QAM      | 8       | 0         | 18.90           | 18.85              | 18.96            |                     |
| 3               | 16QAM      | 8       | 4         | 18.99           | 18.94              | 18.98            |                     |
| 3               | 16QAM      | 8       | 7         | 18.99           | 18.92              | 18.93            | 20.8                |
| 3               | 16QAM      | 15      | 0         | 18.96           | 18.83              | 18.93            |                     |
| 3               | 64QAM      | 1       | 0         | 19.05           | 18.97              | 19.08            |                     |
| 3               | 64QAM      | 1       | 8         | 19.15           | 19.13              | 19.09            | 20.8                |
| 3               | 64QAM      | 1       | 14        | 19.07           | 19.06              | 19.00            |                     |
| 3               | 64QAM      | 8       | 0         | 18.97           | 18.89              | 18.96            |                     |
| 3               | 64QAM      | 8       | 4         | 19.04           | 18.99              | 19.01            | 20.8                |
| 3               | 64QAM      | 8       | 7         | 19.00           | 18.95              | 18.97            |                     |
| 3               | 64QAM      | 15      | 0         | 18.97           | 18.86              | 18.95            |                     |
| Channel         |            |         |           | 131979          | 132322             | 132655           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7          | 1745               | 1779.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 18.81           | 18.87              | 18.91            | 20.8                |
| 1.4             | QPSK       | 1       | 3         | 18.85           | 18.91              | 18.96            |                     |
| 1.4             | QPSK       | 1       | 5         | 18.80           | 18.83              | 18.89            |                     |
| 1.4             | QPSK       | 3       | 0         | 18.84           | 18.90              | 18.92            | 20.8                |
| 1.4             | QPSK       | 3       | 1         | 18.89           | 18.94              | 18.96            |                     |
| 1.4             | QPSK       | 3       | 3         | 18.85           | 18.90              | 18.93            |                     |
| 1.4             | QPSK       | 6       | 0         | 18.91           | 18.96              | 19.00            | 20.8                |
| 1.4             | 16QAM      | 1       | 0         | 19.16           | 19.20              | 19.22            |                     |
| 1.4             | 16QAM      | 1       | 3         | 19.22           | 19.08              | 19.11            |                     |
| 1.4             | 16QAM      | 1       | 5         | 19.15           | 19.17              | 19.22            | 20.8                |
| 1.4             | 16QAM      | 3       | 0         | 18.94           | 18.97              | 18.99            |                     |
| 1.4             | 16QAM      | 3       | 1         | 19.02           | 19.01              | 19.06            |                     |
| 1.4             | 16QAM      | 3       | 3         | 18.92           | 18.97              | 19.01            | 20.8                |
| 1.4             | 16QAM      | 6       | 0         | 18.96           | 19.04              | 19.10            |                     |
| 1.4             | 64QAM      | 1       | 0         | 19.11           | 19.09              | 19.17            |                     |
| 1.4             | 64QAM      | 1       | 3         | 19.14           | 19.15              | 19.22            | 20.8                |
| 1.4             | 64QAM      | 1       | 5         | 19.06           | 19.10              | 19.16            |                     |
| 1.4             | 64QAM      | 3       | 0         | 19.03           | 19.06              | 19.15            |                     |
| 1.4             | 64QAM      | 3       | 1         | 19.06           | 19.13              | 19.20            | 20.8                |
| 1.4             | 64QAM      | 3       | 3         | 19.02           | 19.07              | 19.14            |                     |
| 1.4             | 64QAM      | 6       | 0         | 18.91           | 18.97              | 19.06            |                     |



| Band 71         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222          | 133332             | 133372           |                     |
| Frequency (MHz) |            |         |           | 673             | 683                | 688              |                     |
| 20              | QPSK       | 1       | 0         | 24.67           | 24.60              | 24.58            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.58           | 24.59              | 24.56            |                     |
| 20              | QPSK       | 1       | 99        | 24.61           | 24.56              | 24.53            |                     |
| 20              | QPSK       | 50      | 0         | 23.69           | 23.68              | 23.64            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.74           | 23.67              | 23.63            |                     |
| 20              | QPSK       | 50      | 50        | 23.75           | 23.69              | 23.68            |                     |
| 20              | QPSK       | 100     | 0         | 23.72           | 23.66              | 23.71            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.99           | 23.90              | 23.92            |                     |
| 20              | 16QAM      | 1       | 49        | 23.94           | 23.93              | 23.91            |                     |
| 20              | 16QAM      | 1       | 99        | 23.97           | 23.91              | 23.93            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.69           | 22.68              | 22.67            |                     |
| 20              | 16QAM      | 50      | 24        | 22.75           | 22.68              | 22.66            |                     |
| 20              | 16QAM      | 50      | 50        | 22.75           | 22.73              | 22.68            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.72           | 22.65              | 22.70            |                     |
| 20              | 64QAM      | 1       | 0         | 21.88           | 22.69              | 22.77            |                     |
| 20              | 64QAM      | 1       | 49        | 22.51           | 22.82              | 22.02            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.87           | 22.68              | 22.85            |                     |
| 20              | 64QAM      | 50      | 0         | 20.78           | 21.69              | 21.35            |                     |
| 20              | 64QAM      | 50      | 24        | 21.19           | 21.42              | 21.50            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.70           | 21.49              | 21.63            |                     |
| 20              | 64QAM      | 100     | 0         | 21.39           | 21.66              | 21.66            |                     |
| Channel         |            |         |           | 133197          | 133297             | 133397           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 670.5           | 680.5              | 690.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.65           | 24.60              | 24.56            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.65           | 24.58              | 24.52            |                     |
| 15              | QPSK       | 1       | 74        | 24.58           | 24.62              | 24.55            |                     |
| 15              | QPSK       | 36      | 0         | 23.67           | 23.69              | 23.61            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.75           | 23.67              | 23.71            |                     |
| 15              | QPSK       | 36      | 39        | 23.65           | 23.71              | 23.65            |                     |
| 15              | QPSK       | 75      | 0         | 23.73           | 23.65              | 23.60            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.04           | 23.93              | 23.89            |                     |
| 15              | 16QAM      | 1       | 37        | 23.69           | 23.98              | 23.91            |                     |
| 15              | 16QAM      | 1       | 74        | 23.91           | 23.91              | 23.90            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.63           | 22.67              | 22.63            |                     |
| 15              | 16QAM      | 36      | 20        | 22.72           | 22.69              | 22.71            |                     |
| 15              | 16QAM      | 36      | 39        | 22.69           | 22.71              | 22.68            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.75           | 22.67              | 22.62            |                     |
| 15              | 64QAM      | 1       | 0         | 21.76           | 22.28              | 22.61            |                     |
| 15              | 64QAM      | 1       | 37        | 21.70           | 22.27              | 22.80            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.85           | 22.43              | 22.62            |                     |
| 15              | 64QAM      | 36      | 0         | 20.76           | 21.71              | 21.42            |                     |
| 15              | 64QAM      | 36      | 20        | 20.88           | 21.68              | 21.75            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.38           | 21.40              | 21.71            |                     |
| 15              | 64QAM      | 75      | 0         | 21.18           | 21.65              | 21.52            |                     |
| Channel         |            |         |           | 133172          | 133272             | 133422           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668             | 678                | 693              |                     |
| 10              | QPSK       | 1       | 0         | 24.57           | 24.56              | 24.57            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.53           | 24.56              | 24.57            |                     |
| 10              | QPSK       | 1       | 49        | 24.62           | 24.64              | 24.53            |                     |
| 10              | QPSK       | 25      | 0         | 23.73           | 23.62              | 23.60            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.69           | 23.75              | 23.62            |                     |
| 10              | QPSK       | 25      | 25        | 23.63           | 23.70              | 23.65            |                     |
| 10              | QPSK       | 50      | 0         | 23.73           | 23.74              | 23.61            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.03           | 23.97              | 23.96            |                     |
| 10              | 16QAM      | 1       | 25        | 23.89           | 23.97              | 23.94            |                     |
| 10              | 16QAM      | 1       | 49        | 23.96           | 24.00              | 23.86            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.59           | 22.65              | 22.60            |                     |
| 10              | 16QAM      | 25      | 12        | 22.52           | 22.74              | 22.63            |                     |
| 10              | 16QAM      | 25      | 25        | 22.54           | 22.71              | 22.65            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.73           | 22.73              | 22.59            |                     |
| 10              | 64QAM      | 1       | 0         | 21.71           | 22.19              | 22.73            |                     |
| 10              | 64QAM      | 1       | 25        | 21.61           | 22.89              | 22.80            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.02           | 22.82              | 22.25            |                     |
| 10              | 64QAM      | 25      | 0         | 20.70           | 21.54              | 21.83            |                     |
| 10              | 64QAM      | 25      | 12        | 20.65           | 21.76              | 21.61            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.65           | 21.68              | 21.37            |                     |
| 10              | 64QAM      | 50      | 0         | 20.70           | 21.56              | 21.58            |                     |
| Channel         |            |         |           | 133147          | 133247             | 133447           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5           | 675.5              | 695.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.33           | 24.63              | 24.62            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.62           | 24.59              | 24.59            |                     |
| 5               | QPSK       | 1       | 24        | 24.67           | 24.62              | 24.51            |                     |
| 5               | QPSK       | 12      | 0         | 23.49           | 23.69              | 23.64            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.63           | 23.70              | 23.68            |                     |
| 5               | QPSK       | 12      | 13        | 23.60           | 23.68              | 23.61            |                     |
| 5               | QPSK       | 25      | 0         | 23.60           | 23.69              | 23.59            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.66           | 23.99              | 23.92            |                     |
| 5               | 16QAM      | 1       | 12        | 23.86           | 23.94              | 23.87            |                     |
| 5               | 16QAM      | 1       | 24        | 23.80           | 23.94              | 23.83            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.42           | 22.74              | 22.69            |                     |
| 5               | 16QAM      | 12      | 7         | 22.60           | 22.75              | 22.70            |                     |
| 5               | 16QAM      | 12      | 13        | 22.61           | 22.70              | 22.63            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.52           | 22.72              | 22.63            |                     |
| 5               | 64QAM      | 1       | 0         | 21.83           | 21.95              | 22.65            |                     |
| 5               | 64QAM      | 1       | 12        | 21.71           | 22.83              | 22.44            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.72           | 22.88              | 21.98            |                     |
| 5               | 64QAM      | 12      | 0         | 20.70           | 21.46              | 21.42            |                     |
| 5               | 64QAM      | 12      | 7         | 20.79           | 21.76              | 21.57            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.60           | 21.72              | 21.36            |                     |
| 5               | 64QAM      | 25      | 0         | 20.77           | 21.50              | 21.21            |                     |



| Band 2          |            |         |           |                                                                              |                                          |                 |                     |  |  |  |  |
|-----------------|------------|---------|-----------|------------------------------------------------------------------------------|------------------------------------------|-----------------|---------------------|--|--|--|--|
| Ant 2           |            |         |           |                                                                              |                                          |                 |                     |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./                                                               | Power Middle Ch./                        | Power High Ch./ | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18700                                                                        | 18800                                    | 18900           |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 18700                                                                        | 18800                                    | 19000           |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 23.08                                                                        | 23.12                                    | 23.11           | 24.2                |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 23.06                                                                        | 23.06                                    | 23.06           |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 23.01                                                                        | 23.05                                    | 23.07           |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.15                                                                        | 23.17                                    | 23.09           | 24                  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.22                                                                        | 23.21                                    | 23.20           |                     |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.20                                                                        | 23.25                                    | 23.21           |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.23                                                                        | 23.15                                    | 22.99           | 24                  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.39                                                                        | 23.43                                    | 23.41           |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.39                                                                        | 23.45                                    | 22.85           |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.31                                                                        | 23.41                                    | 23.33           | 23                  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.63                                                                        | 22.67                                    | 22.33           |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.74                                                                        | 22.71                                    | 22.35           |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.71                                                                        | 22.75                                    | 22.69           | 23                  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.72                                                                        | 22.64                                    | 22.52           |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.67                                                                        | 22.33                                    | 22.32           |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.24                                                                        | 22.76                                    | 21.22           | 23                  |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 21.79                                                                        | 22.77                                    | 21.95           |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 20.33                                                                        | 20.32                                    | 20.32           |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 20.31                                                                        | 20.30                                    | 20.35           | 22                  |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 20.79                                                                        | 20.33                                    | 20.85           |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.17                                                                        | 20.35                                    | 20.60           |                     |  |  |  |  |
| Channel         |            |         |           | 18675                                                                        | 18900                                    | 19125           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 18675                                                                        | 18800                                    | 19025           |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 23.06                                                                        | 23.07                                    | 23.06           | 24.2                |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 23.06                                                                        | 23.03                                    | 23.06           |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 23.01                                                                        | 23.03                                    | 23.00           |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.10                                                                        | 23.11                                    | 22.99           | 24                  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.13                                                                        | 23.14                                    | 23.14           |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.13                                                                        | 23.19                                    | 23.16           |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.20                                                                        | 23.10                                    | 22.93           | 24                  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.33                                                                        | 23.39                                    | 23.35           |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.30                                                                        | 23.43                                    | 22.94           |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.29                                                                        | 23.39                                    | 23.25           | 23                  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.53                                                                        | 22.64                                    | 22.33           |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.69                                                                        | 22.69                                    | 22.27           |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.69                                                                        | 22.67                                    | 22.85           | 23                  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.72                                                                        | 22.54                                    | 22.47           |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.58                                                                        | 22.25                                    | 22.23           |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.24                                                                        | 22.73                                    | 21.21           | 23                  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 21.73                                                                        | 22.76                                    | 21.93           |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.61                                                                        | 21.57                                    | 20.29           |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.23                                                                        | 21.63                                    | 20.34           | 22                  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 20.73                                                                        | 21.70                                    | 20.85           |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.14                                                                        | 21.30                                    | 20.51           |                     |  |  |  |  |
| Channel         |            |         |           | 18950 <th>18900</th> <th>19150</th> <th colspan="3">Tune-up limit (dBm)</th> | 18900                                    | 19150           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1855 <th>1880<th>1905</th><th colspan="3"></th></th>                         | 1880 <th>1905</th> <th colspan="3"></th> | 1905            |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 23.08                                                                        | 23.04                                    | 23.01           | 24.2                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 23.06                                                                        | 23.02                                    | 23.01           |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 23.00                                                                        | 23.04                                    | 23.01           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.08                                                                        | 23.14                                    | 23.04           | 24                  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.19                                                                        | 23.17                                    | 23.18           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.18                                                                        | 23.20                                    | 23.14           |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.19                                                                        | 23.14                                    | 22.92           | 24                  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.37                                                                        | 23.42                                    | 23.33           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.37                                                                        | 23.45                                    | 22.80           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.28                                                                        | 23.41                                    | 23.32           | 23                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.59                                                                        | 22.63                                    | 22.25           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.73                                                                        | 22.68                                    | 22.26           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.62                                                                        | 22.65                                    | 22.63           | 23                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.62                                                                        | 22.55                                    | 22.50           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.60                                                                        | 22.32                                    | 22.32           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.18                                                                        | 22.66                                    | 21.21           | 23                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.72                                                                        | 22.72                                    | 21.90           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.60                                                                        | 21.58                                    | 20.23           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.20                                                                        | 21.64                                    | 20.27           | 22                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 20.72                                                                        | 21.68                                    | 20.81           |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.16                                                                        | 21.36                                    | 20.50           |                     |  |  |  |  |
| Channel         |            |         |           | 18525                                                                        | 18900                                    | 19175           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1822.5                                                                       | 18800                                    | 1907.5          |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 23.05                                                                        | 23.07                                    | 23.09           | 24.2                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 23.03                                                                        | 23.00                                    | 23.02           |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 23.01                                                                        | 23.00                                    | 23.03           |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.13                                                                        | 23.07                                    | 23.07           | 24                  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.18                                                                        | 23.12                                    | 23.14           |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.14                                                                        | 23.19                                    | 23.15           |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.17                                                                        | 23.13                                    | 22.92           | 24                  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.29                                                                        | 23.36                                    | 23.35           |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.33                                                                        | 23.38                                    | 22.85           |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.30                                                                        | 23.32                                    | 23.26           | 23                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.62                                                                        | 22.60                                    | 22.32           |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.73                                                                        | 22.62                                    | 22.25           |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.64                                                                        | 22.73                                    | 22.68           | 23                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.70                                                                        | 22.59                                    | 22.49           |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.57                                                                        | 22.24                                    | 22.29           |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.24                                                                        | 22.68                                    | 21.20           | 23                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.72                                                                        | 22.67                                    | 21.91           |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.53                                                                        | 21.54                                    | 20.30           |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.16                                                                        | 21.69                                    | 20.35           | 22                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 20.70                                                                        | 21.67                                    | 20.76           |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.17                                                                        | 21.36                                    | 20.55           |                     |  |  |  |  |
| Channel         |            |         |           | 18615                                                                        | 18900                                    | 19165           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1851.5                                                                       | 18800                                    | 1908.5          |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 23.07                                                                        | 23.07                                    | 23.09           | 24.2                |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 23.05                                                                        | 23.06                                    | 23.00           |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 23.02                                                                        | 23.00                                    | 23.02           |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.09                                                                        | 23.11                                    | 22.99           | 24                  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.16                                                                        | 23.12                                    | 23.10           |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.15                                                                        | 23.15                                    | 23.12           |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.13                                                                        | 23.09                                    | 22.98           | 24                  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.29                                                                        | 23.45                                    | 23.33           |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 23.30                                                                        | 23.35                                    | 22.76           |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.31                                                                        | 23.34                                    | 23.26           | 23                  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.58                                                                        | 22.67                                    | 22.31           |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.67                                                                        | 22.69                                    | 22.27           |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.70                                                                        | 22.73                                    | 22.65           | 23                  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.62                                                                        | 22.59                                    | 22.47           |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.66                                                                        | 22.31                                    | 22.30           |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 22.22                                                                        | 22.68                                    | 21.22           | 23                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.70                                                                        | 22.75                                    | 21.89           |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.54                                                                        | 21.56                                    | 20.25           |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.16                                                                        | 21.70                                    | 20.30           | 22                  |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 20.69                                                                        | 21.67                                    | 20.81           |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.12                                                                        | 21.37                                    | 20.55           |                     |  |  |  |  |
| Channel         |            |         |           | 18607                                                                        | 18900                                    | 19193           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 18507                                                                        | 18800                                    | 19093           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.06                                                                        | 23.09                                    | 23.06           | 24.2                |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.00                                                                        | 23.01                                    | 23.05           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 23.00                                                                        | 23.04                                    | 23.02           |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.06                                                                        | 23.10                                    | 23.07           | 24                  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.20                                                                        | 23.13                                    | 23.17           |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.12                                                                        | 23.23                                    | 23.11           |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.17                                                                        | 23.11                                    | 22.91           | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.35                                                                        | 23.44                                    | 23.39           |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.35                                                                        | 23.41                                    | 22.82           |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.35                                                                        | 23.43                                    | 22.84           | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.63                                                                        | 22.62                                    | 22.25           |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.72                                                                        | 22.67                                    | 22.30           |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.61                                                                        | 22.69                                    | 22.62           | 23                  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.66                                                                        | 22.55                                    | 22.51           |                     |  |  |  |  |
| 1.4             | 16QAM      | 6       | 1         | 22.67                                                                        | 22.28                                    | 20.30           |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.22                                                                        | 22.77                                    | 21.21           | 23                  |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.71                                                                        | 22.67                                    | 21.92           |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.62                                                                        | 21.69                                    | 21.68           |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.66                                                                        | 21.68                                    | 21.65           |                     |  |  |  |  |



| Band 4          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 2           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20050           | 20175              | 20350            |                     |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |
| 20              | QPSK       | 1       | 0         | 22.95           | 23.01              | 22.99            | 24.1                |
| 20              | QPSK       | 1       | 49        | 22.92           | 22.95              | 22.90            |                     |
| 20              | QPSK       | 1       | 99        | 22.93           | 22.96              | 22.92            |                     |
| 20              | QPSK       | 50      | 0         | 23.02           | 23.03              | 22.99            | 24.1                |
| 20              | QPSK       | 50      | 24        | 23.06           | 22.94              | 22.91            |                     |
| 20              | QPSK       | 50      | 50        | 22.97           | 22.95              | 22.92            |                     |
| 20              | QPSK       | 100     | 0         | 23.01           | 23.01              | 22.87            | 24.1                |
| 20              | 16QAM      | 1       | 0         | 23.29           | 23.36              | 23.31            |                     |
| 20              | 16QAM      | 1       | 49        | 23.19           | 23.16              | 23.14            |                     |
| 20              | 16QAM      | 1       | 99        | 23.20           | 23.08              | 23.03            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.61           | 22.67              | 22.60            |                     |
| 20              | 16QAM      | 50      | 24        | 22.66           | 22.58              | 22.52            |                     |
| 20              | 16QAM      | 50      | 50        | 22.59           | 22.58              | 22.53            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.62           | 22.63              | 22.48            |                     |
| 20              | 64QAM      | 1       | 0         | 22.74           | 22.83              | 22.06            |                     |
| 20              | 64QAM      | 1       | 49        | 22.64           | 22.14              | 22.62            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.67           | 21.78              | 22.63            |                     |
| 20              | 64QAM      | 50      | 0         | 21.65           | 21.60              | 21.22            |                     |
| 20              | 64QAM      | 50      | 24        | 21.68           | 21.24              | 21.56            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.62           | 21.03              | 21.54            |                     |
| 20              | 64QAM      | 100     | 0         | 21.69           | 21.60              | 21.54            |                     |
| Channel         |            |         |           | 20025           | 20175              | 20325            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5          | 1732.5             | 1747.5           |                     |
| 15              | QPSK       | 1       | 0         | 22.92           | 22.99              | 22.98            | 24.1                |
| 15              | QPSK       | 1       | 37        | 22.92           | 22.96              | 22.91            |                     |
| 15              | QPSK       | 1       | 74        | 22.96           | 22.92              | 22.93            |                     |
| 15              | QPSK       | 36      | 0         | 23.00           | 23.03              | 22.95            | 24.1                |
| 15              | QPSK       | 36      | 20        | 23.02           | 22.93              | 22.90            |                     |
| 15              | QPSK       | 36      | 39        | 22.87           | 22.87              | 22.91            |                     |
| 15              | QPSK       | 75      | 0         | 22.98           | 22.93              | 22.87            | 24.1                |
| 15              | 16QAM      | 1       | 0         | 23.26           | 23.34              | 23.27            |                     |
| 15              | 16QAM      | 1       | 37        | 23.10           | 23.09              | 23.11            |                     |
| 15              | 16QAM      | 1       | 74        | 23.19           | 23.02              | 23.02            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.52           | 22.58              | 22.54            |                     |
| 15              | 16QAM      | 36      | 20        | 22.61           | 22.53              | 22.50            |                     |
| 15              | 16QAM      | 36      | 39        | 22.58           | 22.58              | 22.49            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.60           | 22.60              | 22.45            |                     |
| 15              | 64QAM      | 1       | 0         | 22.67           | 22.81              | 22.00            |                     |
| 15              | 64QAM      | 1       | 37        | 22.57           | 22.05              | 22.55            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.65           | 21.73              | 22.56            |                     |
| 15              | 64QAM      | 36      | 0         | 21.56           | 21.63              | 21.16            |                     |
| 15              | 64QAM      | 36      | 20        | 21.66           | 21.21              | 21.50            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.61           | 21.02              | 21.47            |                     |
| 15              | 64QAM      | 75      | 0         | 21.60           | 21.55              | 21.45            |                     |
| Channel         |            |         |           | 20000           | 20175              | 20350            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715            | 1732.5             | 1750             |                     |
| 10              | QPSK       | 1       | 0         | 22.93           | 22.91              | 22.94            | 24.1                |
| 10              | QPSK       | 1       | 25        | 22.92           | 22.90              | 22.93            |                     |
| 10              | QPSK       | 1       | 49        | 22.94           | 22.92              | 22.91            |                     |
| 10              | QPSK       | 25      | 0         | 22.97           | 23.03              | 22.93            | 24.1                |
| 10              | QPSK       | 25      | 12        | 23.01           | 22.94              | 22.87            |                     |
| 10              | QPSK       | 25      | 25        | 22.93           | 22.88              | 22.84            |                     |
| 10              | QPSK       | 50      | 0         | 22.93           | 22.93              | 22.78            | 24.1                |
| 10              | 16QAM      | 1       | 0         | 23.26           | 23.34              | 23.22            |                     |
| 10              | 16QAM      | 1       | 25        | 23.17           | 23.07              | 23.07            |                     |
| 10              | 16QAM      | 1       | 49        | 23.17           | 23.01              | 22.96            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.55           | 22.65              | 22.59            |                     |
| 10              | 16QAM      | 25      | 12        | 22.61           | 22.49              | 22.49            |                     |
| 10              | 16QAM      | 25      | 25        | 22.49           | 22.56              | 22.53            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.57           | 22.56              | 22.43            |                     |
| 10              | 64QAM      | 1       | 0         | 22.73           | 22.78              | 22.04            |                     |
| 10              | 64QAM      | 1       | 25        | 22.55           | 22.06              | 22.62            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.68           | 21.76              | 22.55            |                     |
| 10              | 64QAM      | 25      | 0         | 21.63           | 21.68              | 21.13            |                     |
| 10              | 64QAM      | 25      | 12        | 21.67           | 21.15              | 21.52            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.54           | 21.00              | 21.46            |                     |
| 10              | 64QAM      | 50      | 0         | 21.69           | 21.53              | 21.53            |                     |
| Channel         |            |         |           | 19975           | 20175              | 20375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5          | 1732.5             | 1752.5           |                     |
| 5               | QPSK       | 1       | 0         | 22.97           | 22.98              | 22.96            | 24.1                |
| 5               | QPSK       | 1       | 12        | 22.95           | 22.96              | 22.92            |                     |
| 5               | QPSK       | 1       | 24        | 22.93           | 22.97              | 22.96            |                     |
| 5               | QPSK       | 12      | 0         | 22.97           | 22.95              | 22.98            | 24.1                |
| 5               | QPSK       | 12      | 7         | 22.97           | 22.91              | 22.83            |                     |
| 5               | QPSK       | 12      | 13        | 22.97           | 22.92              | 22.91            |                     |
| 5               | QPSK       | 25      | 0         | 22.91           | 22.94              | 22.80            | 24.1                |
| 5               | 16QAM      | 1       | 0         | 23.21           | 23.35              | 23.31            |                     |
| 5               | 16QAM      | 1       | 12        | 23.10           | 23.13              | 23.08            |                     |
| 5               | 16QAM      | 1       | 24        | 23.18           | 23.07              | 23.02            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.51           | 22.63              | 22.60            |                     |
| 5               | 16QAM      | 12      | 7         | 22.60           | 22.55              | 22.44            |                     |
| 5               | 16QAM      | 12      | 13        | 22.54           | 22.52              | 22.46            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.60           | 22.57              | 22.45            |                     |
| 5               | 64QAM      | 1       | 0         | 22.71           | 22.77              | 22.02            |                     |
| 5               | 64QAM      | 1       | 12        | 22.58           | 22.10              | 22.61            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.57           | 21.75              | 22.58            |                     |
| 5               | 64QAM      | 12      | 0         | 21.61           | 21.65              | 21.17            |                     |
| 5               | 64QAM      | 12      | 7         | 21.61           | 21.24              | 21.56            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.58           | 20.95              | 21.46            |                     |
| 5               | 64QAM      | 25      | 0         | 21.68           | 21.58              | 21.49            |                     |
| Channel         |            |         |           | 19965           | 20175              | 20385            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5          | 1732.5             | 1753.5           |                     |
| 3               | QPSK       | 1       | 0         | 22.92           | 22.92              | 22.98            | 24.1                |
| 3               | QPSK       | 1       | 8         | 22.90           | 22.91              | 22.94            |                     |
| 3               | QPSK       | 1       | 14        | 22.93           | 22.95              | 22.96            |                     |
| 3               | QPSK       | 8       | 0         | 22.93           | 23.00              | 22.92            | 24.1                |
| 3               | QPSK       | 8       | 4         | 23.00           | 22.86              | 22.86            |                     |
| 3               | QPSK       | 8       | 7         | 22.96           | 22.93              | 22.88            |                     |
| 3               | QPSK       | 15      | 0         | 23.01           | 22.99              | 22.78            | 24.1                |
| 3               | 16QAM      | 1       | 0         | 23.29           | 23.33              | 23.30            |                     |
| 3               | 16QAM      | 1       | 8         | 23.16           | 23.14              | 23.11            |                     |
| 3               | 16QAM      | 1       | 14        | 23.14           | 23.01              | 22.94            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.54           | 22.61              | 22.59            |                     |
| 3               | 16QAM      | 8       | 4         | 22.59           | 22.57              | 22.50            |                     |
| 3               | 16QAM      | 8       | 7         | 22.58           | 22.56              | 22.49            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.60           | 22.55              | 22.43            |                     |
| 3               | 64QAM      | 1       | 0         | 22.64           | 22.76              | 21.96            |                     |
| 3               | 64QAM      | 1       | 8         | 22.60           | 22.07              | 22.57            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.65           | 21.73              | 22.61            |                     |
| 3               | 64QAM      | 8       | 0         | 21.62           | 21.67              | 21.12            |                     |
| 3               | 64QAM      | 8       | 4         | 21.66           | 21.18              | 21.53            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.52           | 20.94              | 21.51            |                     |
| 3               | 64QAM      | 15      | 0         | 21.59           | 21.52              | 21.54            |                     |
| Channel         |            |         |           | 19957           | 20175              | 20393            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7          | 1732.5             | 1754.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 22.92           | 22.94              | 22.95            | 24.1                |
| 1.4             | QPSK       | 1       | 3         | 22.96           | 22.95              | 22.94            |                     |
| 1.4             | QPSK       | 1       | 5         | 22.93           | 22.94              | 22.95            |                     |
| 1.4             | QPSK       | 3       | 0         | 23.01           | 22.98              | 22.98            | 24.1                |
| 1.4             | QPSK       | 3       | 1         | 22.99           | 22.91              | 22.90            |                     |
| 1.4             | QPSK       | 3       | 3         | 22.94           | 22.93              | 22.95            |                     |
| 1.4             | QPSK       | 6       | 0         | 22.92           | 22.94              | 22.87            | 24.1                |
| 1.4             | 16QAM      | 1       | 0         | 23.27           | 23.35              | 23.29            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.17           | 23.14              | 23.13            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.10           | 23.08              | 22.97            | 24.1                |
| 1.4             | 16QAM      | 3       | 0         | 22.75           | 22.73              | 22.76            |                     |
| 1.4             | 16QAM      | 3       | 1         | 22.73           | 22.72              | 22.70            |                     |
| 1.4             | 16QAM      | 3       | 3         | 22.74           | 22.73              | 22.74            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.55           | 22.61              | 22.48            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.64           | 22.81              | 21.99            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.54           | 22.04              | 22.59            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.59           | 21.75              | 22.60            |                     |
| 1.4             | 64QAM      | 3       | 0         | 21.72           | 21.77              | 21.75            |                     |
| 1.4             | 64QAM      | 3       | 1         | 21.77           | 21.76              | 21.76            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 21.74           | 21.70              | 21.76            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.60           | 21.56              | 21.46            |                     |



| Band 5          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20450           | 20555              | 20650            |                     |
| Frequency (MHz) |            |         |           | 829             | 836.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.78           | 24.62              | 24.62            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58           | 24.62              | 24.62            |                     |
| 10              | QPSK       | 1       | 49        | 24.58           | 24.62              | 24.26            |                     |
| 10              | QPSK       | 25      | 0         | 23.68           | 23.73              | 23.72            |                     |
| 10              | QPSK       | 25      | 12        | 23.75           | 23.74              | 23.72            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.78              | 23.73            |                     |
| 10              | QPSK       | 50      | 0         | 23.75           | 23.70              | 23.73            |                     |
| 10              | 16QAM      | 1       | 0         | 24.01           | 24.01              | 23.99            |                     |
| 10              | 16QAM      | 1       | 25        | 23.98           | 24.05              | 24.00            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 24.00           | 24.04              | 23.60            |                     |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.74              | 22.71            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.72              | 22.75            |                     |
| 10              | 16QAM      | 25      | 25        | 22.72           | 22.78              | 22.79            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.77           | 22.74              | 22.75            |                     |
| 10              | 64QAM      | 1       | 0         | 22.88           | 22.88              | 22.87            |                     |
| 10              | 64QAM      | 1       | 25        | 22.92           | 22.85              | 22.85            |                     |
| 10              | 64QAM      | 1       | 49        | 22.89           | 22.48              | 21.77            | 23.7                |
| 10              | 64QAM      | 25      | 0         | 21.67           | 21.78              | 21.76            |                     |
| 10              | 64QAM      | 25      | 12        | 21.80           | 21.77              | 21.68            |                     |
| 10              | 64QAM      | 25      | 25        | 21.76           | 21.64              | 21.09            |                     |
| 10              | 64QAM      | 50      | 0         | 21.79           | 21.74              | 21.27            | 22.7                |
| Channel         |            |         |           | 20425           | 20525              | 20625            |                     |
| Frequency (MHz) |            |         |           | 826.5           | 836.5              | 846.5            | Tune-up limit (dBm) |
| 5               | QPSK       | 1       | 0         | 24.75           | 24.69              | 24.67            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.65           | 24.72              | 24.40            |                     |
| 5               | QPSK       | 1       | 24        | 24.61           | 24.65              | 24.19            |                     |
| 5               | QPSK       | 12      | 0         | 23.77           | 23.72              | 23.75            |                     |
| 5               | QPSK       | 12      | 7         | 23.73           | 23.78              | 23.42            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.70           | 23.74              | 23.13            |                     |
| 5               | QPSK       | 25      | 0         | 23.74           | 23.70              | 23.60            |                     |
| 5               | 16QAM      | 1       | 0         | 24.08           | 24.03              | 24.01            |                     |
| 5               | 16QAM      | 1       | 12        | 23.99           | 24.03              | 23.67            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.96           | 23.99              | 23.34            |                     |
| 5               | 16QAM      | 12      | 0         | 22.81           | 22.77              | 22.75            |                     |
| 5               | 16QAM      | 12      | 7         | 22.78           | 22.81              | 22.61            |                     |
| 5               | 16QAM      | 12      | 13        | 22.74           | 22.75              | 22.31            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75           | 22.72              | 22.69            |                     |
| 5               | 64QAM      | 1       | 0         | 22.75           | 22.84              | 22.82            |                     |
| 5               | 64QAM      | 1       | 12        | 22.90           | 22.85              | 21.90            |                     |
| 5               | 64QAM      | 1       | 24        | 22.89           | 22.62              | 21.71            | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.73           | 21.80              | 21.31            |                     |
| 5               | 64QAM      | 12      | 7         | 21.80           | 21.79              | 20.75            |                     |
| 5               | 64QAM      | 12      | 13        | 21.75           | 21.66              | 20.71            |                     |
| 5               | 64QAM      | 25      | 0         | 21.73           | 21.75              | 20.81            | 22.7                |
| Channel         |            |         |           | 20415           | 20525              | 20635            |                     |
| Frequency (MHz) |            |         |           | 825.5           | 836.5              | 847.5            | Tune-up limit (dBm) |
| 3               | QPSK       | 1       | 0         | 24.70           | 24.66              | 24.52            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.67           | 24.70              | 24.11            |                     |
| 3               | QPSK       | 1       | 14        | 24.54           | 24.62              | 24.05            |                     |
| 3               | QPSK       | 8       | 0         | 23.76           | 23.73              | 23.36            |                     |
| 3               | QPSK       | 8       | 4         | 23.68           | 23.74              | 23.21            | 24.7                |
| 3               | QPSK       | 8       | 7         | 23.67           | 23.72              | 23.15            |                     |
| 3               | QPSK       | 15      | 0         | 23.72           | 23.67              | 23.28            |                     |
| 3               | 16QAM      | 1       | 0         | 24.01           | 23.96              | 23.87            |                     |
| 3               | 16QAM      | 1       | 8         | 23.99           | 24.02              | 23.50            | 24.7                |
| 3               | 16QAM      | 1       | 14        | 23.89           | 23.92              | 23.42            |                     |
| 3               | 16QAM      | 8       | 0         | 22.83           | 22.76              | 22.54            |                     |
| 3               | 16QAM      | 8       | 4         | 22.79           | 22.80              | 22.36            |                     |
| 3               | 16QAM      | 8       | 7         | 22.75           | 22.78              | 22.29            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.77           | 22.69              | 22.43            |                     |
| 3               | 64QAM      | 1       | 0         | 22.65           | 22.90              | 21.96            |                     |
| 3               | 64QAM      | 1       | 8         | 22.66           | 22.97              | 21.74            |                     |
| 3               | 64QAM      | 1       | 14        | 22.64           | 22.62              | 21.71            | 22.7                |
| 3               | 64QAM      | 8       | 0         | 21.61           | 21.75              | 20.73            |                     |
| 3               | 64QAM      | 8       | 4         | 21.69           | 21.82              | 20.72            |                     |
| 3               | 64QAM      | 8       | 7         | 21.70           | 21.78              | 20.71            |                     |
| 3               | 64QAM      | 15      | 0         | 21.74           | 21.69              | 20.78            | 22.7                |
| Channel         |            |         |           | 20407           | 20525              | 20643            |                     |
| Frequency (MHz) |            |         |           | 824.7           | 836.5              | 848.3            | Tune-up limit (dBm) |
| 1.4             | QPSK       | 1       | 0         | 24.58           | 24.53              | 23.98            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.59           | 24.61              | 24.06            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.51           | 24.53              | 24.06            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.62           | 24.57              | 23.99            |                     |
| 1.4             | QPSK       | 3       | 1         | 24.62           | 24.57              | 24.05            | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.60           | 24.58              | 24.12            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.64           | 23.64              | 23.08            |                     |
| 1.4             | 16QAM      | 1       | 0         | 23.88           | 23.96              | 23.26            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.93           | 23.95              | 23.39            | 24.7                |
| 1.4             | 16QAM      | 1       | 5         | 23.83           | 23.89              | 23.43            |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.67           | 23.62              | 23.14            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.71           | 23.66              | 23.17            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.64           | 23.67              | 23.21            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71           | 22.74              | 22.28            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.64           | 22.80              | 21.77            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.66           | 22.88              | 21.78            |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.62           | 22.79              | 21.73            | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.61           | 22.78              | 21.72            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.66           | 22.79              | 21.77            |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.64           | 22.78              | 21.77            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.50           | 21.69              | 20.74            | 22.7                |



| Band 7          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Part 2          |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850           | 21100              | 21350            |                     |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |
| 20              | QPSK       | 1       | 0         | 23.88           | 23.95              | 23.99            | 24.9                |
| 20              | QPSK       | 1       | 49        | 23.94           | 23.99              | 23.98            |                     |
| 20              | QPSK       | 1       | 99        | 23.99           | 24.08              | 24.04            |                     |
| 20              | QPSK       | 50      | 0         | 23.50           | 23.86              | 23.88            | 24.4                |
| 20              | QPSK       | 50      | 24        | 23.95           | 23.91              | 23.90            |                     |
| 20              | QPSK       | 50      | 50        | 23.96           | 24.03              | 24.02            |                     |
| 20              | QPSK       | 100     | 0         | 23.90           | 23.91              | 23.90            | 24.4                |
| 20              | 16QAM      | 1       | 0         | 24.02           | 24.08              | 24.14            |                     |
| 20              | 16QAM      | 1       | 49        | 24.10           | 24.16              | 24.15            |                     |
| 20              | 16QAM      | 1       | 99        | 24.15           | 24.26              | 24.16            | 23.4                |
| 20              | 16QAM      | 50      | 0         | 22.83           | 22.88              | 22.91            |                     |
| 20              | 16QAM      | 50      | 24        | 22.93           | 22.91              | 22.92            |                     |
| 20              | 16QAM      | 50      | 50        | 22.94           | 23.03              | 22.98            | 23.4                |
| 20              | 16QAM      | 100     | 0         | 22.90           | 22.89              | 22.92            |                     |
| 20              | 64QAM      | 1       | 0         | 22.87           | 22.95              | 22.99            |                     |
| 20              | 64QAM      | 1       | 49        | 22.92           | 23.04              | 22.70            | 23.4                |
| 20              | 64QAM      | 1       | 99        | 23.04           | 23.13              | 22.95            |                     |
| 20              | 64QAM      | 50      | 0         | 21.82           | 21.89              | 21.91            |                     |
| 20              | 64QAM      | 50      | 24        | 21.95           | 21.94              | 21.75            | 22.4                |
| 20              | 64QAM      | 50      | 50        | 21.95           | 22.02              | 21.58            |                     |
| 20              | 64QAM      | 100     | 0         | 21.92           | 21.90              | 21.79            |                     |
| Channel         |            |         |           | 20825           | 21100              | 21375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5          | 2535               | 2562.5           |                     |
| 15              | QPSK       | 1       | 0         | 23.91           | 24.01              | 23.99            | 24.9                |
| 15              | QPSK       | 1       | 37        | 23.95           | 24.02              | 24.02            |                     |
| 15              | QPSK       | 1       | 74        | 24.01           | 24.10              | 24.04            |                     |
| 15              | QPSK       | 36      | 0         | 23.79           | 23.86              | 23.86            | 24.4                |
| 15              | QPSK       | 36      | 20        | 23.93           | 23.92              | 23.89            |                     |
| 15              | QPSK       | 36      | 39        | 23.92           | 23.97              | 23.95            |                     |
| 15              | QPSK       | 75      | 0         | 23.86           | 23.87              | 23.88            | 24.4                |
| 15              | 16QAM      | 1       | 0         | 23.99           | 24.11              | 24.13            |                     |
| 15              | 16QAM      | 1       | 37        | 24.05           | 24.14              | 24.11            |                     |
| 15              | 16QAM      | 1       | 74        | 24.13           | 24.19              | 24.11            | 23.4                |
| 15              | 16QAM      | 36      | 0         | 22.82           | 22.87              | 22.88            |                     |
| 15              | 16QAM      | 36      | 20        | 22.90           | 22.90              | 22.88            |                     |
| 15              | 16QAM      | 36      | 39        | 22.93           | 23.00              | 22.95            | 23.4                |
| 15              | 16QAM      | 75      | 0         | 22.90           | 22.95              | 22.90            |                     |
| 15              | 64QAM      | 1       | 0         | 22.86           | 22.95              | 22.95            |                     |
| 15              | 64QAM      | 1       | 37        | 22.99           | 23.07              | 22.41            | 23.4                |
| 15              | 64QAM      | 1       | 74        | 23.04           | 23.12              | 22.69            |                     |
| 15              | 64QAM      | 36      | 0         | 21.81           | 21.91              | 21.76            |                     |
| 15              | 64QAM      | 36      | 20        | 21.93           | 21.93              | 21.55            | 22.4                |
| 15              | 64QAM      | 36      | 39        | 21.97           | 22.02              | 21.61            |                     |
| 15              | 64QAM      | 75      | 0         | 21.90           | 21.90              | 21.60            |                     |
| Channel         |            |         |           | 20800           | 21100              | 21400            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505            | 2535               | 2565             |                     |
| 10              | QPSK       | 1       | 0         | 23.87           | 23.94              | 23.91            | 24.9                |
| 10              | QPSK       | 1       | 25        | 23.85           | 23.93              | 23.92            |                     |
| 10              | QPSK       | 1       | 49        | 23.92           | 24.02              | 23.92            |                     |
| 10              | QPSK       | 25      | 0         | 23.85           | 23.86              | 23.80            | 24.4                |
| 10              | QPSK       | 25      | 12        | 23.87           | 23.90              | 23.86            |                     |
| 10              | QPSK       | 25      | 25        | 23.86           | 23.96              | 23.89            |                     |
| 10              | QPSK       | 50      | 0         | 23.87           | 23.89              | 23.84            | 24.4                |
| 10              | 16QAM      | 1       | 0         | 24.05           | 24.11              | 24.09            |                     |
| 10              | 16QAM      | 1       | 25        | 24.03           | 24.15              | 24.14            |                     |
| 10              | 16QAM      | 1       | 49        | 24.13           | 24.21              | 24.12            | 23.4                |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.85              | 22.82            |                     |
| 10              | 16QAM      | 25      | 12        | 22.99           | 22.88              | 22.85            |                     |
| 10              | 16QAM      | 25      | 25        | 22.87           | 22.95              | 22.89            | 23.4                |
| 10              | 16QAM      | 50      | 0         | 22.85           | 22.88              | 22.84            |                     |
| 10              | 64QAM      | 1       | 0         | 22.96           | 22.98              | 22.70            |                     |
| 10              | 64QAM      | 1       | 25        | 22.97           | 23.07              | 22.76            | 23.4                |
| 10              | 64QAM      | 1       | 49        | 23.01           | 23.12              | 22.89            |                     |
| 10              | 64QAM      | 25      | 0         | 21.85           | 21.88              | 21.53            |                     |
| 10              | 64QAM      | 25      | 12        | 21.92           | 21.92              | 21.64            | 22.4                |
| 10              | 64QAM      | 25      | 25        | 21.91           | 21.97              | 21.69            |                     |
| 10              | 64QAM      | 50      | 0         | 21.88           | 21.92              | 21.52            |                     |
| Channel         |            |         |           | 20775           | 21100              | 21425            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5          | 2535               | 2567.5           |                     |
| 5               | QPSK       | 1       | 0         | 23.91           | 23.93              | 23.94            | 24.9                |
| 5               | QPSK       | 1       | 12        | 23.94           | 24.05              | 23.97            |                     |
| 5               | QPSK       | 1       | 24        | 23.95           | 24.04              | 23.95            |                     |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.90              | 23.86            | 24.4                |
| 5               | QPSK       | 12      | 7         | 23.87           | 23.91              | 23.87            |                     |
| 5               | QPSK       | 12      | 13        | 23.83           | 23.93              | 23.89            |                     |
| 5               | QPSK       | 25      | 0         | 23.83           | 23.86              | 23.84            | 24.4                |
| 5               | 16QAM      | 1       | 0         | 24.05           | 24.12              | 24.09            |                     |
| 5               | 16QAM      | 1       | 12        | 24.08           | 24.15              | 24.06            |                     |
| 5               | 16QAM      | 1       | 24        | 24.10           | 24.17              | 24.07            | 23.4                |
| 5               | 16QAM      | 12      | 0         | 22.87           | 22.90              | 22.90            |                     |
| 5               | 16QAM      | 12      | 7         | 22.89           | 22.94              | 22.87            |                     |
| 5               | 16QAM      | 12      | 13        | 22.90           | 22.96              | 22.89            | 23.4                |
| 5               | 16QAM      | 25      | 0         | 22.87           | 22.89              | 22.86            |                     |
| 5               | 64QAM      | 1       | 0         | 22.96           | 23.02              | 22.70            |                     |
| 5               | 64QAM      | 1       | 12        | 22.96           | 23.08              | 22.72            | 23.4                |
| 5               | 64QAM      | 1       | 24        | 23.00           | 23.10              | 22.82            |                     |
| 5               | 64QAM      | 12      | 0         | 21.95           | 21.93              | 21.59            |                     |
| 5               | 64QAM      | 12      | 7         | 21.89           | 21.95              | 21.69            | 22.4                |
| 5               | 64QAM      | 12      | 13        | 21.82           | 22.02              | 21.75            |                     |
| 5               | 64QAM      | 25      | 0         | 21.87           | 21.90              | 21.63            |                     |



| Band 12         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23060           | 23095              | 23150            |                     |
| Frequency (MHz) |            |         |           | 704             | 707.5              | 711              |                     |
| 10              | QPSK       | 1       | 0         | 24.64           | 24.61              | 24.63            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.63           | 24.68              | 24.65            |                     |
| 10              | QPSK       | 1       | 49        | 24.76           | 24.71              | 24.70            |                     |
| 10              | QPSK       | 25      | 0         | 23.74           | 23.78              | 23.77            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.67           | 23.80              | 23.76            |                     |
| 10              | QPSK       | 25      | 25        | 23.88           | 23.85              | 23.83            |                     |
| 10              | QPSK       | 50      | 0         | 23.83           | 23.80              | 23.79            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.03           | 23.97              | 23.99            |                     |
| 10              | 16QAM      | 1       | 25        | 24.06           | 24.05              | 24.01            |                     |
| 10              | 16QAM      | 1       | 49        | 24.12           | 24.08              | 24.07            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.76           | 22.79              | 22.77            |                     |
| 10              | 16QAM      | 25      | 12        | 22.62           | 22.80              | 22.78            |                     |
| 10              | 16QAM      | 25      | 25        | 22.81           | 22.85              | 22.79            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.83           | 22.78              | 22.76            |                     |
| 10              | 64QAM      | 1       | 0         | 22.91           | 22.84              | 22.87            |                     |
| 10              | 64QAM      | 1       | 25        | 22.76           | 22.99              | 22.73            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 23.06           | 22.96              | 22.95            |                     |
| 10              | 64QAM      | 25      | 0         | 21.78           | 21.80              | 21.79            |                     |
| 10              | 64QAM      | 25      | 12        | 21.88           | 21.83              | 21.81            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.82           | 21.90              | 21.84            |                     |
| 10              | 64QAM      | 50      | 0         | 21.83           | 21.81              | 21.80            |                     |
| Channel         |            |         |           | 23035           | 23095              | 23155            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 701.5           | 707.5              | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.70           | 24.72              | 24.67            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72           | 24.73              | 24.71            |                     |
| 5               | QPSK       | 1       | 24        | 24.69           | 24.71              | 24.72            |                     |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.79              | 23.78            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.79           | 23.75              | 23.81            |                     |
| 5               | QPSK       | 12      | 13        | 23.75           | 23.82              | 23.77            |                     |
| 5               | QPSK       | 25      | 0         | 23.79           | 23.76              | 23.75            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.02           | 24.04              | 23.98            |                     |
| 5               | 16QAM      | 1       | 12        | 24.03           | 24.01              | 24.02            |                     |
| 5               | 16QAM      | 1       | 24        | 24.02           | 24.07              | 24.03            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.85           | 22.83              | 22.80            |                     |
| 5               | 16QAM      | 12      | 7         | 22.81           | 22.78              | 22.85            |                     |
| 5               | 16QAM      | 12      | 13        | 22.83           | 22.82              | 22.80            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.81           | 22.82              | 22.75            |                     |
| 5               | 64QAM      | 1       | 0         | 22.62           | 22.73              | 22.91            |                     |
| 5               | 64QAM      | 1       | 12        | 22.83           | 22.94              | 22.94            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.80           | 22.98              | 22.93            |                     |
| 5               | 64QAM      | 12      | 0         | 21.81           | 21.89              | 21.87            |                     |
| 5               | 64QAM      | 12      | 7         | 21.88           | 21.85              | 21.88            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.82           | 21.87              | 21.84            |                     |
| 5               | 64QAM      | 25      | 0         | 21.83           | 21.79              | 21.79            |                     |
| Channel         |            |         |           | 23025           | 23095              | 23165            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 700.5           | 707.5              | 714.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.75           | 24.69              | 24.72            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.73           | 24.74              | 24.73            |                     |
| 3               | QPSK       | 1       | 14        | 24.65           | 24.71              | 24.67            |                     |
| 3               | QPSK       | 8       | 0         | 23.79           | 23.78              | 23.73            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.78           | 23.74              | 23.77            |                     |
| 3               | QPSK       | 8       | 7         | 23.73           | 23.76              | 23.75            |                     |
| 3               | QPSK       | 15      | 0         | 23.77           | 23.75              | 23.73            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.08           | 24.01              | 24.02            |                     |
| 3               | 16QAM      | 1       | 8         | 24.06           | 24.08              | 24.08            |                     |
| 3               | 16QAM      | 1       | 14        | 24.00           | 24.05              | 23.98            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.86           | 22.83              | 22.82            |                     |
| 3               | 16QAM      | 8       | 4         | 22.90           | 22.83              | 22.87            |                     |
| 3               | 16QAM      | 8       | 7         | 22.84           | 22.84              | 22.83            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.80           | 22.80              | 22.75            |                     |
| 3               | 64QAM      | 1       | 0         | 22.67           | 22.90              | 22.95            |                     |
| 3               | 64QAM      | 1       | 8         | 22.91           | 23.01              | 22.98            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.92           | 22.95              | 22.86            |                     |
| 3               | 64QAM      | 8       | 0         | 21.82           | 21.81              | 21.81            |                     |
| 3               | 64QAM      | 8       | 4         | 21.87           | 21.84              | 21.87            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.82           | 21.85              | 21.81            |                     |
| 3               | 64QAM      | 15      | 0         | 21.65           | 21.78              | 21.77            |                     |
| Channel         |            |         |           | 23017           | 23095              | 23173            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 699.7           | 707.5              | 715.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.64           | 24.59              | 24.59            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.68           | 24.67              | 24.64            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.60           | 24.58              | 24.55            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.67           | 24.60              | 24.62            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.70           | 24.64              | 24.68            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.64           | 24.67              | 24.61            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.71           | 23.74              | 23.67            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.99           | 23.93              | 23.96            |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.02           | 24.02              | 23.98            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.92           | 23.94              | 23.91            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.75           | 23.69              | 23.69            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.81           | 23.75              | 23.75            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.70           | 23.73              | 23.65            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.78           | 22.80              | 22.76            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.73           | 22.89              | 22.85            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.90           | 22.97              | 22.89            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.82           | 22.85              | 22.81            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.68           | 22.81              | 22.82            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.78           | 22.85              | 22.88            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.63           | 22.83              | 22.79            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.72           | 21.75              | 21.71            |                     |

| Band 13         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 2320           |                   |                 |                     |
| Frequency (MHz) |            |         |           | 782            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.23             |                 | 25.2                |
| 10              | QPSK       | 1       | 25        |                | 24.22             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.35             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.39             |                 | 24.2                |
| 10              | QPSK       | 25      | 12        |                | 23.33             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.34             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.35             |                 | 24.2                |
| 10              | 16QAM      | 1       | 0         |                | 23.56             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 23.57             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.54             |                 | 23.2                |
| 10              | 16QAM      | 25      | 0         |                | 22.31             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.34             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.38             |                 | 22.2                |
| 10              | 16QAM      | 50      | 0         |                | 22.35             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.52             |                 | 23.2                |
| 10              | 64QAM      | 1       | 49        |                | 22.46             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.36             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.38             |                 | 22.2                |
| 10              | 64QAM      | 25      | 25        |                | 21.37             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.39             |                 |                     |
| Channel         |            |         |           | 23205          | 23230             | 23255           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 779.5          | 782               | 784.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.62          | 24.61             | 24.59           | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.69          | 24.74             | 24.66           |                     |
| 5               | QPSK       | 1       | 24        | 24.64          | 24.62             | 24.54           |                     |
| 5               | QPSK       | 12      | 0         | 23.71          | 23.68             | 23.65           | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.76          | 23.70             | 23.65           |                     |
| 5               | QPSK       | 12      | 13        | 23.70          | 23.69             | 23.63           |                     |
| 5               | QPSK       | 25      | 0         | 23.74          | 23.67             | 23.59           | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.63          | 23.96             | 23.90           |                     |
| 5               | 16QAM      | 1       | 12        | 24.00          | 23.98             | 23.93           |                     |
| 5               | 16QAM      | 1       | 24        | 23.99          | 23.90             | 23.89           | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.79          | 22.71             | 22.65           |                     |
| 5               | 16QAM      | 12      | 7         | 22.77          | 22.71             | 22.69           |                     |
| 5               | 16QAM      | 12      | 13        | 22.72          | 22.74             | 22.70           | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.75          | 22.71             | 22.62           |                     |
| 5               | 64QAM      | 1       | 0         | 22.89          | 22.60             | 22.19           |                     |
| 5               | 64QAM      | 1       | 12        | 22.82          | 22.09             | 22.17           | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.33          | 21.97             | 22.69           |                     |
| 5               | 64QAM      | 12      | 0         | 21.82          | 21.27             | 20.93           |                     |
| 5               | 64QAM      | 12      | 7         | 21.76          | 21.05             | 21.11           | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.44          | 20.88             | 21.53           |                     |
| 5               | 64QAM      | 25      | 0         | 21.56          | 21.63             | 21.17           |                     |





| Band 14         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23330          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 793            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.66             |                 | 25.7                |
| 10              | QPSK       | 1       | 25        |                | 24.65             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.67             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.71             |                 | 24.7                |
| 10              | QPSK       | 25      | 12        |                | 23.70             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.73             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.68             |                 | 24.7                |
| 10              | 16QAM      | 1       | 0         |                | 24.08             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 24.08             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.96             |                 | 23.7                |
| 10              | 16QAM      | 25      | 0         |                | 22.68             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.70             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.71             |                 | 23.7                |
| 10              | 16QAM      | 50      | 0         |                | 22.70             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.92             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.66             |                 | 23.7                |
| 10              | 64QAM      | 1       | 49        |                | 22.90             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.71             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.37             |                 | 22.7                |
| 10              | 64QAM      | 25      | 25        |                | 21.38             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.44             |                 |                     |
| Channel         |            |         |           | 23305          | 23330             | 23355           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5          | 793               | 795.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.64          | 24.61             | 24.62           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72          | 24.70             | 24.69           |                     |
| 5               | QPSK       | 1       | 24        | 24.70          | 24.63             | 24.56           |                     |
| 5               | QPSK       | 12      | 0         | 23.74          | 23.69             | 23.64           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.77          | 23.72             | 23.68           |                     |
| 5               | QPSK       | 12      | 13        | 23.74          | 23.72             | 23.68           |                     |
| 5               | QPSK       | 25      | 0         | 23.74          | 23.68             | 23.64           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.97          | 23.92             | 23.91           |                     |
| 5               | 16QAM      | 1       | 12        | 24.03          | 23.99             | 23.96           |                     |
| 5               | 16QAM      | 1       | 24        | 23.99          | 23.93             | 23.89           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.79          | 22.70             | 22.69           |                     |
| 5               | 16QAM      | 12      | 7         | 22.81          | 22.74             | 22.71           |                     |
| 5               | 16QAM      | 12      | 13        | 22.75          | 22.72             | 22.72           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75          | 22.72             | 22.66           |                     |
| 5               | 64QAM      | 1       | 0         | 22.86          | 22.72             | 22.34           |                     |
| 5               | 64QAM      | 1       | 12        | 22.94          | 22.37             | 22.32           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.49          | 22.18             | 22.72           |                     |
| 5               | 64QAM      | 12      | 0         | 21.82          | 21.48             | 21.13           |                     |
| 5               | 64QAM      | 12      | 7         | 21.85          | 21.29             | 21.25           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.60          | 21.11             | 21.55           |                     |
| 5               | 64QAM      | 25      | 0         | 21.69          | 21.22             | 21.29           |                     |

| Band 17         |            |         |           |                 |                    |                  |                     |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |                     |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |                     |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |                     |
| 10              | QPSK       | 1       | 0         | 24.66           | 24.65              | 24.61            | 25.7                |                     |
| 10              | QPSK       | 1       | 25        | 24.69           | 24.70              | 24.71            |                     |                     |
| 10              | QPSK       | 1       | 49        | 24.75           | 24.80              | 24.72            |                     |                     |
| 10              | QPSK       | 25      | 0         | 23.73           | 23.76              | 23.76            |                     |                     |
| 10              | QPSK       | 25      | 12        | 23.68           | 23.82              | 23.79            | 24.7                |                     |
| 10              | QPSK       | 25      | 25        | 23.88           | 23.86              | 23.88            |                     |                     |
| 10              | QPSK       | 50      | 0         | 23.79           | 23.78              | 23.79            |                     |                     |
| 10              | 16QAM      | 1       | 0         | 24.00           | 23.99              | 24.01            |                     |                     |
| 10              | 16QAM      | 1       | 25        | 24.14           | 24.11              | 24.08            | 24.7                |                     |
| 10              | 16QAM      | 1       | 49        | 24.12           | 24.10              | 24.09            |                     |                     |
| 10              | 16QAM      | 25      | 0         | 22.74           | 22.74              | 22.73            |                     |                     |
| 10              | 16QAM      | 25      | 12        | 22.90           | 22.79              | 22.81            |                     |                     |
| 10              | 16QAM      | 25      | 25        | 22.89           | 22.90              | 22.82            | 23.7                |                     |
| 10              | 16QAM      | 50      | 0         | 22.80           | 22.80              | 22.77            |                     |                     |
| 10              | 64QAM      | 1       | 0         | 22.65           | 22.76              | 22.88            |                     |                     |
| 10              | 64QAM      | 1       | 25        | 22.71           | 22.71              | 22.65            |                     |                     |
| 10              | 64QAM      | 1       | 49        | 22.97           | 22.93              | 22.76            | 23.7                |                     |
| 10              | 64QAM      | 25      | 0         | 21.49           | 21.50              | 21.47            |                     |                     |
| 10              | 64QAM      | 25      | 12        | 21.61           | 21.54              | 21.52            |                     |                     |
| 10              | 64QAM      | 25      | 25        | 21.65           | 21.76              | 21.84            |                     |                     |
| 10              | 64QAM      | 50      | 0         | 21.62           | 21.68              | 21.62            | 22.7                |                     |
| Channel         |            |         |           | 23765           | 23790              | 23825            |                     | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 706.5           | 710                | 713.5            |                     |                     |
| 5               | QPSK       | 1       | 0         | 24.66           | 24.66              | 24.66            | 25.7                |                     |
| 5               | QPSK       | 1       | 12        | 24.74           | 24.79              | 24.75            |                     |                     |
| 5               | QPSK       | 1       | 24        | 24.79           | 24.79              | 24.78            |                     |                     |
| 5               | QPSK       | 12      | 0         | 23.76           | 23.76              | 23.79            |                     |                     |
| 5               | QPSK       | 12      | 7         | 23.85           | 23.81              | 23.82            | 24.7                |                     |
| 5               | QPSK       | 12      | 13        | 23.83           | 23.86              | 23.83            |                     |                     |
| 5               | QPSK       | 25      | 0         | 23.81           | 23.79              | 23.82            |                     |                     |
| 5               | 16QAM      | 1       | 0         | 23.99           | 23.96              | 23.99            |                     |                     |
| 5               | 16QAM      | 1       | 12        | 24.02           | 24.06              | 24.04            | 24.7                |                     |
| 5               | 16QAM      | 1       | 24        | 24.13           | 24.14              | 24.10            |                     |                     |
| 5               | 16QAM      | 12      | 0         | 22.79           | 22.83              | 22.81            |                     |                     |
| 5               | 16QAM      | 12      | 7         | 22.89           | 22.86              | 22.89            |                     |                     |
| 5               | 16QAM      | 12      | 13        | 22.84           | 22.88              | 22.84            | 23.7                |                     |
| 5               | 16QAM      | 25      | 0         | 22.65           | 22.85              | 22.87            |                     |                     |
| 5               | 64QAM      | 1       | 0         | 22.40           | 22.44              | 22.75            |                     |                     |
| 5               | 64QAM      | 1       | 12        | 22.76           | 22.60              | 22.94            |                     |                     |
| 5               | 64QAM      | 1       | 24        | 22.59           | 22.57              | 22.67            | 23.7                |                     |
| 5               | 64QAM      | 12      | 0         | 21.61           | 21.45              | 21.75            |                     |                     |
| 5               | 64QAM      | 12      | 7         | 21.73           | 21.52              | 21.89            |                     |                     |
| 5               | 64QAM      | 12      | 13        | 21.65           | 21.58              | 21.88            |                     |                     |
| 5               | 64QAM      | 25      | 0         | 21.55           | 21.51              | 21.79            | 22.7                |                     |



| Band 25         |            |         |           |                 |                    |                  |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|--|--|--|--|
| Ant 2           |            |         |           |                 |                    |                  |                     |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 26140           | 26340              | 26590            |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 23.09           | 23.12              | 23.02            | 24.2                |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 23.06           | 23.08              | 23.05            |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 23.00           | 23.04              | 23.01            |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.01           | 23.16              | 22.56            | 24                  |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.02           | 23.28              | 23.04            |                     |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 22.88           | 23.24              | 23.26            |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 22.43           | 23.24              | 22.31            | 24                  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.09           | 23.43              | 22.58            |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.09           | 23.42              | 22.49            |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 22.40           | 23.41              | 22.22            | 23                  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.51           | 22.72              | 21.77            |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.07           | 22.79              | 22.07            |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 21.85           | 22.75              | 21.92            | 23                  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 21.45           | 21.98              | 21.45            |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 21.20           | 21.21              | 21.22            | 23                  |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 21.22           | 21.74              | 21.24            |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 21.20           | 22.09              | 21.23            |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 20.89           | 21.06              | 21.07            | 22                  |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 20.17           | 21.08              | 20.39            |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 20.02           | 21.11              | 20.24            |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 20.00           | 20.03              | 20.04            | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 26115           | 26340              | 26615            |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 1857.5          | 1880               | 1907.5           |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 23.04           | 23.11              | 23.02            | 24.2                |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 23.02           | 23.10              | 23.05            |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 23.00           | 23.04              | 23.06            |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 22.93           | 23.08              | 22.50            | 24                  |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 22.99           | 23.22              | 23.00            |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 22.81           | 23.15              | 23.18            |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 22.42           | 23.24              | 22.22            | 24                  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.08           | 23.42              | 22.52            |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.06           | 23.35              | 22.42            |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 22.36           | 23.40              | 22.21            | 23                  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.47           | 22.67              | 21.74            |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.07           | 22.76              | 21.97            |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 21.64           | 22.69              | 21.85            | 23                  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 21.45           | 21.98              | 21.36            |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 21.17           | 21.14              | 21.18            |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 21.21           | 21.64              | 21.24            | 23                  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 21.16           | 22.01              | 21.15            |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 20.79           | 20.98              | 21.03            |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 20.07           | 21.06              | 20.38            | 22                  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 20.11           | 21.04              | 20.15            |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 20.15           | 20.30              | 20.12            |                     |  |  |  |  |
| Channel         |            |         |           | 26090           | 26340              | 26640            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1855            | 1880               | 1910             |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 23.07           | 23.07              | 23.02            | 24.2                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 23.03           | 23.02              | 23.01            |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 23.01           | 23.00              | 23.03            |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 22.99           | 23.10              | 22.56            | 24                  |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.99           | 23.21              | 23.00            |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.88           | 23.24              | 23.21            |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.36           | 23.15              | 22.30            | 24                  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.01           | 23.35              | 22.50            |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.08           | 23.34              | 22.42            |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.36           | 23.32              | 22.13            | 24                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.49           | 22.71              | 21.76            |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.02           | 22.79              | 22.06            |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 21.57           | 22.70              | 21.83            | 23                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.37           | 21.90              | 21.43            |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 21.14           | 21.11              | 21.18            |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 21.17           | 21.72              | 21.17            | 23                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.19           | 21.99              | 21.17            |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 20.88           | 21.02              | 20.98            |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 20.08           | 20.98              | 20.29            | 22                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 20.03           | 21.11              | 20.21            |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 20.05           | 20.10              | 20.02            |                     |  |  |  |  |
| Channel         |            |         |           | 26065           | 26340              | 26665            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1852.5          | 1880               | 1912.5           |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 23.06           | 23.02              | 23.01            | 24.2                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 23.04           | 23.04              | 23.00            |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 23.05           | 23.03              | 23.02            |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.95           | 23.15              | 22.51            | 24                  |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.93           | 23.23              | 23.01            |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.78           | 23.17              | 23.26            |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.34           | 23.20              | 22.27            | 24                  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.02           | 23.35              | 22.54            |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.07           | 23.32              | 22.43            |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.34           | 23.37              | 22.19            | 23                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.47           | 22.64              | 21.75            |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.04           | 22.76              | 22.00            |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.59           | 22.68              | 21.92            | 23                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.41           | 21.91              | 21.42            |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 21.13           | 21.16              | 21.14            |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 21.13           | 21.73              | 21.24            | 23                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.12           | 22.09              | 21.14            |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.84           | 20.99              | 21.07            |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 20.17           | 21.06              | 20.36            | 22                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 20.08           | 21.10              | 20.16            |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 20.02           | 20.01              | 20.00            |                     |  |  |  |  |
| Channel         |            |         |           | 26055           | 26340              | 26675            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1851.5          | 1880               | 1913.5           |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 23.03           | 23.09              | 23.04            | 24.2                |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 23.01           | 23.07              | 23.02            |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 23.05           | 23.04              | 23.00            |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.94           | 23.06              | 22.47            | 24                  |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 22.95           | 23.20              | 22.98            |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.85           | 23.23              | 23.22            |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 22.36           | 23.21              | 22.24            | 24                  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.01           | 23.40              | 22.52            |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 23.04           | 23.36              | 22.46            |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.30           | 23.32              | 22.14            | 24                  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.51           | 22.64              | 21.71            |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 21.98           | 22.79              | 22.05            |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 21.62           | 22.72              | 21.91            | 23                  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.35           | 21.94              | 21.37            |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 21.11           | 21.19              | 21.18            |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 21.12           | 21.68              | 21.17            | 23                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.17           | 22.02              | 21.15            |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 20.89           | 21.03              | 21.00            |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 20.13           | 21.02              | 20.31            | 22                  |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 20.03           | 21.02              | 20.15            |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 20.05           | 20.00              | 20.05            |                     |  |  |  |  |
| Channel         |            |         |           | 26047           | 26340              | 26683            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1850.7          | 1880               | 1914.3           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.02           | 23.03              | 23.02            | 24.2                |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.05           | 23.01              | 23.00            |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 23.04           | 23.00              | 23.06            |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.02           | 23.16              | 23.00            | 24                  |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.01           | 23.19              | 23.03            |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.05           | 23.15              | 23.24            |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.34           | 23.18              | 22.26            | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.02           | 23.35              | 22.57            |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.08           | 23.34              | 22.44            |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.12           | 23.32              | 22.13            | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.44           | 22.70              | 22.01            |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.06           | 22.70              | 22.02            |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.00           | 22.69              | 22.03            | 24                  |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 21.45           | 21.88              | 21.41            |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.10           | 21.15              | 21.19            |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 21.18           | 21.63              | 21.19            | 23                  |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 21.20           | 22.02              | 21.18            |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.12           | 21.01              | 21.07            |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.08           | 21.06              | 21.03            | 23                  |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.10           | 21.11              | 21.10            |                     |  |  |  |  |



| Band 26         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26745           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 831.5           | 831.5              | 841.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.78           | 24.52              | 24.57            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.46           | 24.51              | 24.50            |                     |
| 15              | QPSK       | 1       | 74        | 24.49           | 24.48              | 24.27            |                     |
| 15              | QPSK       | 36      | 0         | 23.67           | 23.65              | 23.65            |                     |
| 15              | QPSK       | 36      | 20        | 23.66           | 23.61              | 23.63            | 24.7                |
| 15              | QPSK       | 36      | 39        | 23.60           | 23.63              | 23.64            |                     |
| 15              | QPSK       | 75      | 0         | 23.68           | 23.60              | 23.62            |                     |
| 15              | QPSK       | 75      | 0         | 23.68           | 23.60              | 23.62            |                     |
| 15              | 16QAM      | 1       | 0         | 23.93           | 23.86              | 23.88            | 24.7                |
| 15              | 16QAM      | 1       | 37        | 23.82           | 23.86              | 23.85            |                     |
| 15              | 16QAM      | 1       | 74        | 23.81           | 23.83              | 23.62            |                     |
| 15              | 16QAM      | 36      | 0         | 22.63           | 22.66              | 22.67            |                     |
| 15              | 16QAM      | 36      | 20        | 22.65           | 22.61              | 22.60            | 23.7                |
| 15              | 16QAM      | 36      | 39        | 22.59           | 22.65              | 22.62            |                     |
| 15              | 16QAM      | 75      | 0         | 22.67           | 22.62              | 22.65            |                     |
| 15              | 16QAM      | 75      | 0         | 22.78           | 22.72              | 22.72            |                     |
| 15              | 64QAM      | 1       | 37        | 22.70           | 22.80              | 22.76            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.69           | 22.72              | 22.70            |                     |
| 15              | 64QAM      | 36      | 0         | 21.68           | 21.69              | 21.72            |                     |
| 15              | 64QAM      | 36      | 20        | 21.69           | 21.63              | 21.65            |                     |
| 15              | 64QAM      | 36      | 39        | 21.65           | 21.71              | 21.58            | 22.7                |
| 15              | 64QAM      | 75      | 0         | 21.69           | 21.63              | 21.63            |                     |
| Channel         |            |         |           | 26740           | 26865              | 26990            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 819             | 831.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.72           | 24.59              | 24.60            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.57           | 24.55              | 24.59            |                     |
| 10              | QPSK       | 1       | 49        | 24.60           | 24.64              | 24.38            |                     |
| 10              | QPSK       | 25      | 0         | 23.74           | 23.66              | 23.68            |                     |
| 10              | QPSK       | 25      | 12        | 23.76           | 23.66              | 23.65            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.65           | 23.68              | 23.67            |                     |
| 10              | QPSK       | 50      | 0         | 23.70           | 23.65              | 23.66            |                     |
| 10              | 16QAM      | 1       | 0         | 24.07           | 23.98              | 23.96            |                     |
| 10              | 16QAM      | 1       | 25        | 23.94           | 24.01              | 23.97            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 23.97           | 24.02              | 23.73            |                     |
| 10              | 16QAM      | 25      | 0         | 22.74           | 22.69              | 22.66            |                     |
| 10              | 16QAM      | 25      | 12        | 22.76           | 22.71              | 22.67            |                     |
| 10              | 16QAM      | 25      | 25        | 22.64           | 22.63              | 22.63            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.72           | 22.66              | 22.63            |                     |
| 10              | 64QAM      | 1       | 0         | 22.64           | 22.75              | 22.88            |                     |
| 10              | 64QAM      | 1       | 25        | 22.90           | 22.93              | 22.93            |                     |
| 10              | 64QAM      | 1       | 49        | 22.89           | 22.91              | 21.83            | 22.7                |
| 10              | 64QAM      | 25      | 0         | 21.80           | 21.71              | 21.72            |                     |
| 10              | 64QAM      | 25      | 12        | 21.76           | 21.69              | 21.72            |                     |
| 10              | 64QAM      | 25      | 25        | 21.68           | 21.70              | 21.21            |                     |
| 10              | 64QAM      | 50      | 0         | 21.72           | 21.65              | 21.50            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26715           | 26865              | 27015            |                     |
| Frequency (MHz) |            |         |           | 816.5           | 831.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.75           | 24.61              | 24.68            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72           | 24.63              | 24.47            |                     |
| 5               | QPSK       | 1       | 24        | 24.56           | 24.64              | 24.43            |                     |
| 5               | QPSK       | 12      | 0         | 23.79           | 23.72              | 23.74            |                     |
| 5               | QPSK       | 12      | 7         | 23.60           | 23.72              | 23.57            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.71           | 23.67              | 23.31            |                     |
| 5               | QPSK       | 25      | 0         | 23.76           | 23.67              | 23.64            |                     |
| 5               | 16QAM      | 1       | 0         | 24.09           | 23.94              | 23.99            |                     |
| 5               | 16QAM      | 1       | 12        | 24.00           | 23.97              | 23.85            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.91           | 24.01              | 23.71            |                     |
| 5               | 16QAM      | 12      | 0         | 22.84           | 22.72              | 22.73            |                     |
| 5               | 16QAM      | 12      | 7         | 22.81           | 22.76              | 22.71            |                     |
| 5               | 16QAM      | 12      | 13        | 22.73           | 22.68              | 22.44            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.78           | 22.66              | 22.72            |                     |
| 5               | 64QAM      | 1       | 0         | 22.69           | 22.90              | 22.83            |                     |
| 5               | 64QAM      | 1       | 12        | 22.90           | 22.88              | 22.03            |                     |
| 5               | 64QAM      | 1       | 24        | 22.61           | 22.86              | 21.86            | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.63           | 21.78              | 21.45            |                     |
| 5               | 64QAM      | 12      | 7         | 21.84           | 21.81              | 21.00            |                     |
| 5               | 64QAM      | 12      | 13        | 21.74           | 21.78              | 20.80            |                     |
| 5               | 64QAM      | 25      | 0         | 21.77           | 21.68              | 20.99            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26705           | 26865              | 27025            |                     |
| Frequency (MHz) |            |         |           | 815.5           | 831.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.72           | 24.62              | 24.62            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.75           | 24.69              | 24.16            |                     |
| 3               | QPSK       | 1       | 14        | 24.63           | 24.66              | 24.26            |                     |
| 3               | QPSK       | 8       | 0         | 23.83           | 23.68              | 23.39            |                     |
| 3               | QPSK       | 8       | 4         | 23.77           | 23.72              | 23.28            | 24.7                |
| 3               | QPSK       | 8       | 7         | 23.74           | 23.70              | 23.29            |                     |
| 3               | QPSK       | 15      | 0         | 23.78           | 23.67              | 23.30            |                     |
| 3               | 16QAM      | 1       | 0         | 24.09           | 23.91              | 23.81            |                     |
| 3               | 16QAM      | 1       | 8         | 24.06           | 24.06              | 23.47            | 24.7                |
| 3               | 16QAM      | 1       | 14        | 23.95           | 23.95              | 23.55            |                     |
| 3               | 16QAM      | 8       | 0         | 22.86           | 22.77              | 22.54            |                     |
| 3               | 16QAM      | 8       | 4         | 22.88           | 22.77              | 22.42            |                     |
| 3               | 16QAM      | 8       | 7         | 22.78           | 22.76              | 22.45            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.78           | 22.70              | 22.47            |                     |
| 3               | 64QAM      | 1       | 0         | 22.72           | 22.83              | 22.00            |                     |
| 3               | 64QAM      | 1       | 8         | 23.03           | 22.95              | 21.88            |                     |
| 3               | 64QAM      | 1       | 14        | 22.86           | 22.90              | 21.83            | 22.7                |
| 3               | 64QAM      | 8       | 0         | 21.79           | 21.74              | 20.85            |                     |
| 3               | 64QAM      | 8       | 4         | 21.88           | 21.81              | 20.77            |                     |
| 3               | 64QAM      | 8       | 7         | 21.61           | 21.72              | 20.92            |                     |
| 3               | 64QAM      | 15      | 0         | 21.81           | 21.67              | 20.86            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26697           | 26865              | 27033            |                     |
| Frequency (MHz) |            |         |           | 814.7           | 831.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.68           | 24.52              | 24.13            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.71           | 24.63              | 24.26            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.61           | 24.55              | 24.29            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59           | 24.55              | 24.17            |                     |
| 1.4             | QPSK       | 3       | 1         | 24.74           | 24.58              | 24.22            | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.67           | 24.55              | 24.37            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.71           | 23.63              | 23.29            |                     |
| 1.4             | 16QAM      | 1       | 0         | 24.01           | 23.86              | 23.45            |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.04           | 23.98              | 23.59            | 24.7                |
| 1.4             | 16QAM      | 1       | 5         | 23.93           | 23.86              | 23.65            |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.75           | 23.65              | 23.27            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.79           | 23.65              | 23.32            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.71           | 23.67              | 23.46            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.82           | 22.75              | 22.46            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.74           | 22.76              | 21.86            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.88           | 22.88              | 21.90            |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.86           | 22.76              | 21.85            | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.76           | 22.73              | 21.85            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.82           | 22.82              | 21.93            |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.84           | 22.79              | 21.86            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.65           | 21.68              | 20.87            | 22.7                |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 2           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 2771.0         |                   |                 |                     |
| Frequency (MHz) |            |         |           | 231.0          |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 23.02             |                 | 23.7                |
| 10              | QPSK       | 1       | 25        |                | 23.01             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 22.92             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 21.96             |                 | 22.7                |
| 10              | QPSK       | 25      | 12        |                | 22.00             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 22.11             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 22.00             |                 | 22.7                |
| 10              | 16QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 22.28             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 22.31             |                 | 21.7                |
| 10              | 16QAM      | 25      | 0         |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 21.11             |                 | 21.7                |
| 10              | 16QAM      | 50      | 0         |                | 20.98             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 21.18             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 21.21             |                 | 21.7                |
| 10              | 64QAM      | 1       | 49        |                | 21.22             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.98             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 20.04             |                 | 20.7                |
| 10              | 64QAM      | 25      | 25        |                | 20.13             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 20.02             |                 |                     |
| Channel         |            |         |           | 2768.5         | 2771.0            | 2773.5          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5         | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 22.86          | 22.86             | 22.86           | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.99          | 23.01             | 22.99           |                     |
| 5               | QPSK       | 1       | 24        | 23.01          | 23.00             | 22.96           |                     |
| 5               | QPSK       | 12      | 0         | 22.02          | 21.96             | 21.97           | 22.7                |
| 5               | QPSK       | 12      | 7         | 22.08          | 22.07             | 22.05           |                     |
| 5               | QPSK       | 12      | 13        | 22.06          | 22.06             | 22.03           |                     |
| 5               | QPSK       | 25      | 0         | 22.04          | 21.99             | 22.00           | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.17          | 22.16             | 22.19           |                     |
| 5               | 16QAM      | 1       | 12        | 22.26          | 22.25             | 22.21           |                     |
| 5               | 16QAM      | 1       | 24        | 22.32          | 22.32             | 22.30           | 21.7                |
| 5               | 16QAM      | 12      | 0         | 21.06          | 21.01             | 21.03           |                     |
| 5               | 16QAM      | 12      | 7         | 21.09          | 21.09             | 21.09           |                     |
| 5               | 16QAM      | 12      | 13        | 21.07          | 21.10             | 21.05           | 21.7                |
| 5               | 16QAM      | 25      | 0         | 21.05          | 21.02             | 21.02           |                     |
| 5               | 64QAM      | 1       | 0         | 21.11          | 21.14             | 21.15           |                     |
| 5               | 64QAM      | 1       | 12        | 21.19          | 21.20             | 21.16           | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.25          | 21.22             | 21.22           |                     |
| 5               | 64QAM      | 12      | 0         | 20.09          | 20.02             | 20.07           |                     |
| 5               | 64QAM      | 12      | 7         | 20.15          | 20.14             | 20.10           | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.11          | 20.11             | 20.10           |                     |
| 5               | 64QAM      | 25      | 0         | 20.10          | 20.01             | 20.03           |                     |



| Band 66         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 2           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 132072          | 132322             | 132572           |                     |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |
| 20              | QPSK       | 1       | 0         | 22.96           | 22.88              | 22.80            | 24.1                |
| 20              | QPSK       | 1       | 49        | 22.82           | 22.68              | 22.67            |                     |
| 20              | QPSK       | 1       | 99        | 22.87           | 22.70              | 22.60            |                     |
| 20              | QPSK       | 50      | 0         | 23.07           | 22.99              | 22.84            | 24.1                |
| 20              | QPSK       | 50      | 24        | 23.08           | 22.93              | 22.85            |                     |
| 20              | QPSK       | 50      | 50        | 23.03           | 22.89              | 22.84            |                     |
| 20              | QPSK       | 100     | 0         | 23.06           | 22.90              | 22.86            | 24.1                |
| 20              | 16QAM      | 1       | 0         | 23.29           | 23.23              | 23.15            |                     |
| 20              | 16QAM      | 1       | 49        | 23.18           | 23.03              | 23.00            |                     |
| 20              | 16QAM      | 1       | 99        | 23.21           | 23.06              | 22.91            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.88           | 22.99              | 22.49            |                     |
| 20              | 16QAM      | 50      | 24        | 22.67           | 22.54              | 22.45            |                     |
| 20              | 16QAM      | 50      | 50        | 22.64           | 22.50              | 22.47            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.63           | 22.51              | 22.46            |                     |
| 20              | 64QAM      | 1       | 0         | 22.73           | 22.06              | 22.55            |                     |
| 20              | 64QAM      | 1       | 49        | 22.69           | 22.54              | 22.46            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.74           | 22.55              | 22.46            |                     |
| 20              | 64QAM      | 50      | 0         | 21.69           | 21.24              | 21.50            |                     |
| 20              | 64QAM      | 50      | 24        | 21.70           | 21.54              | 21.46            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.66           | 21.49              | 21.48            |                     |
| 20              | 64QAM      | 100     | 0         | 21.68           | 21.52              | 21.45            |                     |
| Channel         |            |         |           | 132047          | 132322             | 132597           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5          | 1745               | 1772.5           |                     |
| 15              | QPSK       | 1       | 0         | 22.94           | 22.88              | 22.74            | 24.1                |
| 15              | QPSK       | 1       | 37        | 22.82           | 22.67              | 22.57            |                     |
| 15              | QPSK       | 1       | 74        | 22.83           | 22.68              | 22.53            |                     |
| 15              | QPSK       | 36      | 0         | 23.06           | 22.80              | 22.80            | 24.1                |
| 15              | QPSK       | 36      | 20        | 23.07           | 22.86              | 22.75            |                     |
| 15              | QPSK       | 36      | 39        | 22.95           | 22.85              | 22.78            |                     |
| 15              | QPSK       | 75      | 0         | 23.05           | 22.83              | 22.77            | 24.1                |
| 15              | 16QAM      | 1       | 0         | 23.24           | 23.19              | 23.12            |                     |
| 15              | 16QAM      | 1       | 37        | 23.11           | 23.03              | 22.98            |                     |
| 15              | 16QAM      | 1       | 74        | 23.21           | 22.97              | 22.81            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.68           | 22.50              | 22.44            |                     |
| 15              | 16QAM      | 36      | 20        | 22.61           | 22.51              | 22.39            |                     |
| 15              | 16QAM      | 36      | 39        | 22.59           | 22.40              | 22.40            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.55           | 22.43              | 22.36            |                     |
| 15              | 64QAM      | 1       | 0         | 22.69           | 22.05              | 22.50            |                     |
| 15              | 64QAM      | 1       | 37        | 22.66           | 22.54              | 22.42            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.74           | 22.47              | 22.46            |                     |
| 15              | 64QAM      | 36      | 0         | 21.64           | 21.15              | 21.42            |                     |
| 15              | 64QAM      | 36      | 20        | 21.62           | 21.47              | 21.37            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.62           | 21.42              | 21.40            |                     |
| 15              | 64QAM      | 75      | 0         | 21.65           | 21.43              | 21.44            |                     |
| Channel         |            |         |           | 132022          | 132322             | 132622           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715            | 1745               | 1775             |                     |
| 10              | QPSK       | 1       | 0         | 22.94           | 22.81              | 22.74            | 24.1                |
| 10              | QPSK       | 1       | 25        | 22.73           | 22.68              | 22.61            |                     |
| 10              | QPSK       | 1       | 49        | 22.78           | 22.65              | 22.56            |                     |
| 10              | QPSK       | 25      | 0         | 23.00           | 22.84              | 22.79            | 24.1                |
| 10              | QPSK       | 25      | 12        | 23.01           | 22.86              | 22.82            |                     |
| 10              | QPSK       | 25      | 25        | 22.99           | 22.80              | 22.75            |                     |
| 10              | QPSK       | 50      | 0         | 22.97           | 22.88              | 22.84            | 24.1                |
| 10              | 16QAM      | 1       | 0         | 23.26           | 23.23              | 23.12            |                     |
| 10              | 16QAM      | 1       | 25        | 23.12           | 22.99              | 22.95            |                     |
| 10              | 16QAM      | 1       | 49        | 23.21           | 22.94              | 22.91            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.65           | 22.45              | 22.42            |                     |
| 10              | 16QAM      | 25      | 12        | 22.66           | 22.52              | 22.42            |                     |
| 10              | 16QAM      | 25      | 25        | 22.64           | 22.41              | 22.39            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.60           | 22.46              | 22.45            |                     |
| 10              | 64QAM      | 1       | 0         | 22.66           | 21.98              | 22.54            |                     |
| 10              | 64QAM      | 1       | 25        | 22.69           | 22.46              | 22.44            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.66           | 22.50              | 22.37            |                     |
| 10              | 64QAM      | 25      | 0         | 21.64           | 21.19              | 21.47            |                     |
| 10              | 64QAM      | 25      | 12        | 21.65           | 21.51              | 21.37            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.65           | 21.47              | 21.42            |                     |
| 10              | 64QAM      | 50      | 0         | 21.63           | 21.47              | 21.43            |                     |
| Channel         |            |         |           | 131997          | 132322             | 132647           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5          | 1745               | 1777.5           |                     |
| 5               | QPSK       | 1       | 0         | 22.89           | 22.78              | 22.70            | 24.1                |
| 5               | QPSK       | 1       | 12        | 22.79           | 22.61              | 22.60            |                     |
| 5               | QPSK       | 1       | 24        | 22.84           | 22.70              | 22.56            |                     |
| 5               | QPSK       | 12      | 0         | 22.99           | 22.88              | 22.77            | 24.1                |
| 5               | QPSK       | 12      | 7         | 23.07           | 22.93              | 22.82            |                     |
| 5               | QPSK       | 12      | 13        | 22.94           | 22.86              | 22.75            |                     |
| 5               | QPSK       | 25      | 0         | 23.06           | 22.88              | 22.83            | 24.1                |
| 5               | 16QAM      | 1       | 0         | 23.26           | 23.21              | 23.11            |                     |
| 5               | 16QAM      | 1       | 12        | 23.12           | 23.01              | 22.98            |                     |
| 5               | 16QAM      | 1       | 24        | 23.14           | 22.93              | 22.86            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.60           | 22.41              | 22.44            |                     |
| 5               | 16QAM      | 12      | 7         | 22.58           | 22.48              | 22.35            |                     |
| 5               | 16QAM      | 12      | 13        | 22.57           | 22.50              | 22.42            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.62           | 22.51              | 22.42            |                     |
| 5               | 64QAM      | 1       | 0         | 22.63           | 21.98              | 22.47            |                     |
| 5               | 64QAM      | 1       | 12        | 22.63           | 22.44              | 22.43            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.67           | 22.53              | 22.37            |                     |
| 5               | 64QAM      | 12      | 0         | 21.59           | 21.21              | 21.47            |                     |
| 5               | 64QAM      | 12      | 7         | 21.67           | 21.47              | 21.42            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.61           | 21.39              | 21.45            |                     |
| 5               | 64QAM      | 25      | 0         | 21.61           | 21.46              | 21.44            |                     |
| Channel         |            |         |           | 131987          | 132322             | 132657           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5          | 1745               | 1778.5           |                     |
| 3               | QPSK       | 1       | 0         | 22.90           | 22.84              | 22.73            | 24.1                |
| 3               | QPSK       | 1       | 8         | 22.81           | 22.59              | 22.63            |                     |
| 3               | QPSK       | 1       | 14        | 22.79           | 22.62              | 22.53            |                     |
| 3               | QPSK       | 8       | 0         | 22.97           | 22.88              | 22.74            | 24.1                |
| 3               | QPSK       | 8       | 4         | 23.02           | 22.91              | 22.75            |                     |
| 3               | QPSK       | 8       | 7         | 22.95           | 22.87              | 22.79            |                     |
| 3               | QPSK       | 15      | 0         | 23.00           | 22.85              | 22.77            | 24.1                |
| 3               | 16QAM      | 1       | 0         | 23.23           | 23.17              | 23.10            |                     |
| 3               | 16QAM      | 1       | 8         | 23.10           | 22.97              | 22.94            |                     |
| 3               | 16QAM      | 1       | 14        | 23.11           | 22.99              | 22.91            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.64           | 22.40              | 22.42            |                     |
| 3               | 16QAM      | 8       | 4         | 22.64           | 22.48              | 22.39            |                     |
| 3               | 16QAM      | 8       | 7         | 22.58           | 22.45              | 22.42            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.63           | 22.46              | 22.41            |                     |
| 3               | 64QAM      | 1       | 0         | 22.70           | 22.02              | 22.46            |                     |
| 3               | 64QAM      | 1       | 8         | 22.66           | 22.45              | 22.45            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.68           | 22.45              | 22.40            |                     |
| 3               | 64QAM      | 8       | 0         | 21.61           | 21.15              | 21.42            |                     |
| 3               | 64QAM      | 8       | 4         | 21.62           | 21.53              | 21.44            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.66           | 21.45              | 21.48            |                     |
| 3               | 64QAM      | 15      | 0         | 21.61           | 21.44              | 21.40            |                     |
| Channel         |            |         |           | 131979          | 132322             | 132665           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7          | 1745               | 1779.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 22.91           | 22.85              | 22.75            | 24.1                |
| 1.4             | QPSK       | 1       | 3         | 22.73           | 22.63              | 22.65            |                     |
| 1.4             | QPSK       | 1       | 5         | 22.81           | 22.60              | 22.53            |                     |
| 1.4             | QPSK       | 3       | 0         | 22.99           | 22.80              | 22.84            | 24.1                |
| 1.4             | QPSK       | 3       | 1         | 23.07           | 22.87              | 22.82            |                     |
| 1.4             | QPSK       | 3       | 3         | 23.02           | 22.81              | 22.84            |                     |
| 1.4             | QPSK       | 6       | 0         | 22.98           | 22.86              | 22.82            | 24.1                |
| 1.4             | 16QAM      | 1       | 0         | 23.28           | 23.14              | 23.05            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.16           | 22.98              | 23.00            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.14           | 22.93              | 22.85            | 24.1                |
| 1.4             | 16QAM      | 3       | 0         | 22.59           | 22.46              | 22.39            |                     |
| 1.4             | 16QAM      | 3       | 1         | 22.60           | 22.51              | 22.39            |                     |
| 1.4             | 16QAM      | 3       | 3         | 22.55           | 22.44              | 22.44            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.59           | 22.45              | 22.37            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.63           | 21.97              | 22.51            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.63           | 22.54              | 22.42            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.71           | 22.48              | 22.41            |                     |
| 1.4             | 64QAM      | 3       | 0         | 21.77           | 21.74              | 21.76            |                     |
| 1.4             | 64QAM      | 3       | 1         | 21.73           | 21.74              | 21.75            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 21.72           | 21.70              | 21.74            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.66           | 21.50              | 21.44            |                     |



| Band 71         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222          | 133322             | 133372           |                     |
| Frequency (MHz) |            |         |           | 673             | 683                | 688              |                     |
| 20              | QPSK       | 1       | 0         | 24.77           | 24.67              | 24.68            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.65           | 24.65              | 24.65            |                     |
| 20              | QPSK       | 1       | 99        | 24.68           | 24.66              | 24.61            |                     |
| 20              | QPSK       | 50      | 0         | 23.76           | 23.76              | 23.72            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.80           | 23.74              | 23.75            |                     |
| 20              | QPSK       | 50      | 50        | 23.84           | 23.78              | 23.75            |                     |
| 20              | QPSK       | 100     | 0         | 23.79           | 23.71              | 23.77            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.06           | 23.96              | 24.00            |                     |
| 20              | 16QAM      | 1       | 49        | 24.01           | 24.03              | 24.04            |                     |
| 20              | 16QAM      | 1       | 99        | 24.03           | 24.01              | 23.95            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.77           | 22.75              | 22.75            |                     |
| 20              | 16QAM      | 50      | 24        | 22.82           | 22.77              | 22.73            |                     |
| 20              | 16QAM      | 50      | 50        | 22.82           | 22.77              | 22.78            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.79           | 22.73              | 22.78            |                     |
| 20              | 64QAM      | 1       | 0         | 22.04           | 22.83              | 22.82            | 23.7                |
| 20              | 64QAM      | 1       | 49        | 22.63           | 22.90              | 22.29            |                     |
| 20              | 64QAM      | 1       | 99        | 22.04           | 22.89              | 22.87            |                     |
| 20              | 64QAM      | 50      | 0         | 21.00           | 21.70              | 21.40            | 22.7                |
| 20              | 64QAM      | 50      | 24        | 21.30           | 21.64              | 21.57            |                     |
| 20              | 64QAM      | 50      | 50        | 21.84           | 21.60              | 21.74            |                     |
| 20              | 64QAM      | 100     | 0         | 21.53           | 21.76              | 21.80            | Tune-up limit (dBm) |
| Channel         |            |         |           | 133197          | 133297             | 133397           |                     |
| Frequency (MHz) |            |         |           | 670.5           | 680.5              | 690.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.74           | 24.65              | 24.63            |                     |
| 15              | QPSK       | 1       | 37        | 24.02           | 24.66              | 24.61            | 25.7                |
| 15              | QPSK       | 1       | 74        | 24.05           | 24.68              | 24.64            |                     |
| 15              | QPSK       | 36      | 0         | 23.73           | 23.71              | 23.69            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.80           | 23.73              | 23.78            |                     |
| 15              | QPSK       | 36      | 39        | 23.73           | 23.76              | 23.74            |                     |
| 15              | QPSK       | 75      | 0         | 23.81           | 23.74              | 23.68            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.05           | 24.01              | 23.98            |                     |
| 15              | 16QAM      | 1       | 37        | 23.95           | 24.02              | 24.00            |                     |
| 15              | 16QAM      | 1       | 74        | 23.97           | 24.00              | 23.98            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.76           | 22.75              | 22.71            |                     |
| 15              | 16QAM      | 36      | 20        | 22.79           | 22.74              | 22.79            |                     |
| 15              | 16QAM      | 36      | 39        | 22.77           | 22.79              | 22.75            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.63           | 22.73              | 22.70            |                     |
| 15              | 64QAM      | 1       | 0         | 22.02           | 22.43              | 22.76            |                     |
| 15              | 64QAM      | 1       | 37        | 21.86           | 22.94              | 22.88            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.88           | 22.60              | 22.84            |                     |
| 15              | 64QAM      | 36      | 0         | 20.97           | 21.77              | 21.44            |                     |
| 15              | 64QAM      | 36      | 20        | 20.94           | 21.78              | 21.81            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.48           | 21.56              | 21.78            |                     |
| 15              | 64QAM      | 75      | 0         | 21.29           | 21.75              | 21.67            |                     |
| Channel         |            |         |           | 133172          | 133272             | 133422           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668             | 678                | 693              |                     |
| 10              | QPSK       | 1       | 0         | 24.76           | 24.64              | 24.66            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.61           | 24.62              | 24.63            |                     |
| 10              | QPSK       | 1       | 49        | 24.66           | 24.71              | 24.62            |                     |
| 10              | QPSK       | 25      | 0         | 23.78           | 23.71              | 23.69            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.79           | 23.82              | 23.70            |                     |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.78              | 23.74            |                     |
| 10              | QPSK       | 50      | 0         | 23.80           | 23.81              | 23.71            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.10           | 24.02              | 24.04            |                     |
| 10              | 16QAM      | 1       | 25        | 23.98           | 24.06              | 24.00            |                     |
| 10              | 16QAM      | 1       | 49        | 23.98           | 24.07              | 23.96            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.76           | 22.70              | 22.68            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.81              | 22.68            |                     |
| 10              | 16QAM      | 25      | 25        | 22.65           | 22.77              | 22.73            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.79           | 22.80              | 22.69            |                     |
| 10              | 64QAM      | 1       | 0         | 21.80           | 22.30              | 22.77            |                     |
| 10              | 64QAM      | 1       | 25        | 22.01           | 22.95              | 22.95            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.14           | 22.96              | 22.45            |                     |
| 10              | 64QAM      | 25      | 0         | 20.82           | 21.71              | 21.71            |                     |
| 10              | 64QAM      | 25      | 12        | 20.84           | 21.84              | 21.76            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.71           | 21.81              | 21.64            |                     |
| 10              | 64QAM      | 50      | 0         | 20.83           | 21.77              | 21.69            |                     |
| Channel         |            |         |           | 133147          | 133247             | 133447           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5           | 675.5              | 695.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.57           | 24.69              | 24.72            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.71           | 24.65              | 24.70            |                     |
| 5               | QPSK       | 1       | 24        | 24.70           | 24.68              | 24.63            |                     |
| 5               | QPSK       | 12      | 0         | 23.73           | 23.76              | 23.74            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.84           | 23.79              | 23.76            |                     |
| 5               | QPSK       | 12      | 13        | 23.76           | 23.76              | 23.70            |                     |
| 5               | QPSK       | 25      | 0         | 23.76           | 23.76              | 23.68            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.75           | 24.01              | 24.02            |                     |
| 5               | 16QAM      | 1       | 12        | 23.97           | 24.03              | 23.97            |                     |
| 5               | 16QAM      | 1       | 24        | 23.95           | 24.02              | 23.93            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64           | 22.80              | 22.78            |                     |
| 5               | 16QAM      | 12      | 7         | 22.86           | 22.80              | 22.78            |                     |
| 5               | 16QAM      | 12      | 13        | 22.77           | 22.77              | 22.70            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.69           | 22.81              | 22.70            |                     |
| 5               | 64QAM      | 1       | 0         | 21.74           | 22.06              | 22.91            |                     |
| 5               | 64QAM      | 1       | 12        | 21.79           | 22.94              | 22.70            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.96           | 22.96              | 22.25            |                     |
| 5               | 64QAM      | 12      | 0         | 20.82           | 21.49              | 21.68            |                     |
| 5               | 64QAM      | 12      | 7         | 21.00           | 21.86              | 21.73            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.99           | 21.81              | 21.61            |                     |
| 5               | 64QAM      | 25      | 0         | 20.76           | 21.59              | 21.48            |                     |



| Band 2          |            |         |           |                |                   |                 |                     |  |  |  |  |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|--|--|--|--|
| Ant 0           |            |         |           |                |                   |                 |                     |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18700          | 18900             | 19100           |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 1860           | 1880              | 1900            |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 18.28          | 18.29             | 18.26           | 19.4                |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 18.22          | 18.24             | 18.20           |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 18.20          | 18.23             | 18.22           |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 18.33          | 18.31             | 18.26           | 19.4                |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 18.40          | 18.33             | 18.34           |                     |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 18.35          | 18.40             | 18.35           |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 18.41          | 18.32             | 18.37           | 19.4                |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 18.58          | 18.62             | 18.55           |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 18.55          | 18.53             | 18.47           |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 18.45          | 18.50             | 18.46           | 19.4                |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 18.32          | 18.30             | 18.28           |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 18.39          | 18.33             | 18.36           |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 18.38          | 18.37             | 18.35           | 19.4                |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 18.38          | 18.29             | 18.35           |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 18.51          | 18.48             | 18.46           | 19.4                |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 18.46          | 18.45             | 18.44           |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 18.39          | 18.46             | 18.42           |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 18.35          | 18.35             | 18.30           | 19.4                |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 18.43          | 18.37             | 18.40           |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 18.39          | 18.41             | 18.38           |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 18.40          | 18.32             | 18.38           | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18675          | 18900             | 19125           |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 1857.5         | 1880              | 1902.5          |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 18.21          | 18.22             | 18.21           | 19.4                |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 18.20          | 18.24             | 18.24           |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 18.23          | 18.22             | 18.22           |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 18.26          | 18.25             | 18.20           | 19.4                |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 18.36          | 18.24             | 18.30           |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 18.33          | 18.40             | 18.34           |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 18.36          | 18.28             | 18.37           | 19.4                |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 18.50          | 18.60             | 18.49           |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 18.52          | 18.49             | 18.43           |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 18.39          | 18.40             | 18.42           | 19.4                |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 18.28          | 18.29             | 18.22           |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 18.29          | 18.24             | 18.27           |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 18.35          | 18.34             | 18.28           | 19.4                |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 18.31          | 18.32             | 18.34           |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 18.43          | 18.38             | 18.41           |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 18.44          | 18.38             | 18.36           | 19.4                |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 18.30          | 18.42             | 18.38           |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 18.31          | 18.32             | 18.25           |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 18.33          | 18.29             | 18.39           | 19.4                |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 18.31          | 18.36             | 18.32           |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 18.39          | 18.28             | 18.34           |                     |  |  |  |  |
| Channel         |            |         |           | 18650          | 18900             | 19150           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1855           | 1880              | 1905            |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 18.20          | 18.20             | 18.24           | 19.4                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 18.20          | 18.22             | 18.22           |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 18.21          | 18.22             | 18.24           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 18.31          | 18.24             | 18.20           | 19.4                |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 18.33          | 18.32             | 18.34           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 18.29          | 18.36             | 18.34           |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 18.36          | 18.31             | 18.33           | 19.4                |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 18.55          | 18.56             | 18.49           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 18.48          | 18.43             | 18.45           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 18.42          | 18.47             | 18.43           | 19.4                |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 18.32          | 18.25             | 18.20           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 18.39          | 18.23             | 18.32           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 18.38          | 18.30             | 18.28           | 19.4                |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 18.33          | 18.25             | 18.25           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 18.42          | 18.43             | 18.43           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 18.40          | 18.43             | 18.38           | 19.4                |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 18.30          | 18.40             | 18.36           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 18.32          | 18.28             | 18.21           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 18.43          | 18.37             | 18.34           | 19.4                |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 18.36          | 18.38             | 18.36           |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 18.39          | 18.23             | 18.34           |                     |  |  |  |  |
| Channel         |            |         |           | 18625          | 18900             | 19175           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1852.5         | 1880              | 1907.5          |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 18.27          | 18.22             | 18.23           | 19.4                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 18.21          | 18.22             | 18.22           |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 18.21          | 18.23             | 18.21           |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 18.26          | 18.22             | 18.20           | 19.4                |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 18.32          | 18.26             | 18.25           |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 18.26          | 18.37             | 18.30           |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 18.40          | 18.26             | 18.29           | 19.4                |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 18.48          | 18.61             | 18.53           |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 18.55          | 18.52             | 18.37           |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 18.44          | 18.48             | 18.46           | 19.4                |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 18.25          | 18.21             | 18.24           |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 18.33          | 18.31             | 18.32           |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 18.33          | 18.32             | 18.28           | 19.4                |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 18.30          | 18.27             | 18.33           |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 18.43          | 18.45             | 18.40           |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 18.41          | 18.45             | 18.40           | 19.4                |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 18.29          | 18.44             | 18.32           |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 18.34          | 18.27             | 18.26           |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 18.40          | 18.36             | 18.33           | 19.4                |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 18.35          | 18.34             | 18.34           |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 18.35          | 18.28             | 18.37           |                     |  |  |  |  |
| Channel         |            |         |           | 18615          | 18900             | 19185           | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1851.5         | 1880              | 1908.5          |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 18.23          | 18.23             | 18.22           | 19.4                |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 18.20          | 18.21             | 18.23           |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 18.21          | 18.22             | 18.22           |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 18.31          | 18.28             | 18.24           | 19.4                |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 18.39          | 18.32             | 18.27           |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 18.30          | 18.37             | 18.29           |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 18.39          | 18.28             | 18.27           | 19.4                |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 18.55          | 18.53             | 18.50           |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 18.50          | 18.48             | 18.41           |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 18.40          | 18.46             | 18.38           | 19.4                |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 18.28          | 18.21             | 18.22           |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 18.39          | 18.25             | 18.29           |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 18.28          | 18.37             | 18.34           | 19.4                |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 18.35          | 18.20             | 18.32           |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 18.50          | 18.42             | 18.44           | 19.4                |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 18.44          | 18.38             | 18.38           |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 18.39          | 18.45             | 18.33           |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 18.31          | 18.35             | 18.23           | 19.4                |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 18.38          | 18.33             | 18.32           |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 18.35          | 18.31             | 18.31           |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 18.33          | 18.26             | 18.32           | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 18607          | 18900             | 19193           |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 18507          | 18900             | 19193           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 18.21          | 18.20             | 18.21           | 19.4                |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 18.21          | 18.22             | 18.22           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 18.23          | 18.20             | 18.22           |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 18.24          | 18.25             | 18.24           | 19.4                |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 18.33          | 18.29             | 18.31           |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 18.31          | 18.35             | 18.30           |                     |  |  |  |  |
| 1.4             | QPSK       | 6       |           |                |                   |                 |                     |  |  |  |  |





| Band 4          |            |         |           |                            |                            |                            |                       |                           |  |
|-----------------|------------|---------|-----------|----------------------------|----------------------------|----------------------------|-----------------------|---------------------------|--|
| Art 0           |            |         |           |                            |                            |                            |                       |                           |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Mod Ch /<br>20050 | Power<br>Mod Ch /<br>20175 | Power<br>Mod Ch /<br>20300 | High<br>Ch /<br>20300 | Tune-up<br>unit<br>(dbm)  |  |
| Channel         |            |         |           | 20050                      | 20175                      | 20300                      |                       |                           |  |
| Frequency (MHz) |            |         |           | 1720                       | 1732.5                     | 1745                       |                       |                           |  |
| 20              | QPSK       | 1       | 0         | 18.94                      | 18.90                      | 18.88                      |                       | 20                        |  |
| 20              | QPSK       | 1       | 49        | 18.89                      | 18.84                      | 18.86                      |                       |                           |  |
| 20              | QPSK       | 1       | 99        | 18.89                      | 18.89                      | 18.90                      |                       |                           |  |
| 20              | QPSK       | 50      | 0         | 19.01                      | 18.96                      | 18.98                      |                       |                           |  |
| 20              | QPSK       | 50      | 24        | 19.02                      | 19.03                      | 19.02                      |                       | 20                        |  |
| 20              | QPSK       | 50      | 50        | 18.95                      | 18.89                      | 18.92                      |                       |                           |  |
| 20              | QPSK       | 100     | 0         | 18.99                      | 18.99                      | 18.88                      |                       |                           |  |
| 20              | 16QAM      | 1       | 0         | 19.31                      | 19.23                      | 19.21                      |                       | 20                        |  |
| 20              | 16QAM      | 1       | 49        | 19.13                      | 19.10                      | 19.13                      |                       |                           |  |
| 20              | 16QAM      | 1       | 99        | 19.19                      | 19.12                      | 19.07                      |                       |                           |  |
| 20              | 16QAM      | 50      | 0         | 18.99                      | 18.97                      | 19.00                      |                       |                           |  |
| 20              | 16QAM      | 50      | 24        | 19.02                      | 19.00                      | 19.02                      |                       | 20                        |  |
| 20              | 16QAM      | 50      | 50        | 18.95                      | 18.91                      | 18.95                      |                       |                           |  |
| 20              | 16QAM      | 100     | 0         | 18.97                      | 18.99                      | 18.90                      |                       |                           |  |
| 20              | 64QAM      | 1       | 0         | 19.11                      | 19.09                      | 19.10                      |                       |                           |  |
| 20              | 64QAM      | 1       | 49        | 19.00                      | 18.93                      | 18.95                      |                       | 20                        |  |
| 20              | 64QAM      | 1       | 99        | 19.02                      | 19.04                      | 19.03                      |                       |                           |  |
| 20              | 64QAM      | 50      | 0         | 19.00                      | 18.96                      | 18.97                      |                       |                           |  |
| 20              | 64QAM      | 50      | 24        | 19.02                      | 18.99                      | 19.00                      |                       |                           |  |
| 20              | 64QAM      | 50      | 50        | 18.96                      | 18.92                      | 18.93                      |                       | 20                        |  |
| 20              | 64QAM      | 100     | 0         | 19.01                      | 18.96                      | 18.93                      |                       |                           |  |
| Channel         |            |         |           | 20025                      | 20175                      | 20325                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1717.5                     | 1732.5                     | 1747.5                     |                       |                           |  |
| 15              | QPSK       | 1       | 0         | 18.84                      | 18.92                      | 18.94                      |                       | 20                        |  |
| 15              | QPSK       | 1       | 37        | 18.80                      | 18.80                      | 18.80                      |                       |                           |  |
| 15              | QPSK       | 1       | 74        | 18.81                      | 18.80                      | 18.80                      |                       |                           |  |
| 15              | QPSK       | 36      | 0         | 19.01                      | 18.95                      | 18.97                      |                       |                           |  |
| 15              | QPSK       | 36      | 20        | 18.93                      | 18.93                      | 18.95                      |                       |                           |  |
| 15              | QPSK       | 36      | 39        | 18.91                      | 18.90                      | 18.93                      |                       | 20                        |  |
| 15              | QPSK       | 75      | 0         | 18.97                      | 18.97                      | 18.88                      |                       |                           |  |
| 15              | 16QAM      | 1       | 0         | 19.26                      | 19.24                      | 19.27                      |                       |                           |  |
| 15              | 16QAM      | 1       | 37        | 19.10                      | 19.07                      | 19.12                      |                       | 20                        |  |
| 15              | 16QAM      | 1       | 74        | 19.13                      | 19.05                      | 19.10                      |                       |                           |  |
| 15              | 16QAM      | 36      | 0         | 19.05                      | 18.94                      | 18.97                      |                       |                           |  |
| 15              | 16QAM      | 36      | 20        | 18.98                      | 18.93                      | 18.99                      |                       | 20                        |  |
| 15              | 16QAM      | 36      | 39        | 18.96                      | 18.88                      | 18.96                      |                       |                           |  |
| 15              | 16QAM      | 75      | 0         | 18.99                      | 18.95                      | 18.91                      |                       |                           |  |
| 15              | 64QAM      | 1       | 0         | 19.04                      | 19.00                      | 19.05                      |                       | 20                        |  |
| 15              | 64QAM      | 1       | 37        | 19.04                      | 19.00                      | 19.06                      |                       |                           |  |
| 15              | 64QAM      | 36      | 0         | 19.06                      | 18.99                      | 18.97                      |                       |                           |  |
| 15              | 64QAM      | 36      | 20        | 18.99                      | 18.96                      | 18.97                      |                       | 20                        |  |
| 15              | 64QAM      | 36      | 39        | 18.96                      | 18.92                      | 18.97                      |                       |                           |  |
| 15              | 64QAM      | 75      | 0         | 18.98                      | 18.97                      | 18.91                      |                       |                           |  |
| Channel         |            |         |           | 20000                      | 20175                      | 20350                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1715                       | 1732.5                     | 1750                       |                       |                           |  |
| 10              | QPSK       | 1       | 0         | 18.85                      | 18.82                      | 18.85                      |                       | 20                        |  |
| 10              | QPSK       | 1       | 25        | 18.80                      | 18.80                      | 18.85                      |                       |                           |  |
| 10              | QPSK       | 1       | 49        | 18.80                      | 18.81                      | 18.86                      |                       |                           |  |
| 10              | QPSK       | 25      | 0         | 18.95                      | 18.88                      | 18.88                      |                       |                           |  |
| 10              | QPSK       | 25      | 12        | 18.99                      | 18.96                      | 18.92                      |                       | 20                        |  |
| 10              | QPSK       | 25      | 25        | 18.98                      | 18.97                      | 19.00                      |                       |                           |  |
| 10              | QPSK       | 50      | 0         | 18.99                      | 18.97                      | 18.95                      |                       |                           |  |
| 10              | 16QAM      | 1       | 0         | 19.24                      | 19.20                      | 19.23                      |                       |                           |  |
| 10              | 16QAM      | 1       | 25        | 19.19                      | 19.17                      | 19.24                      |                       | 20                        |  |
| 10              | 16QAM      | 1       | 49        | 19.20                      | 19.16                      | 19.23                      |                       |                           |  |
| 10              | 16QAM      | 25      | 0         | 18.96                      | 18.93                      | 18.92                      |                       |                           |  |
| 10              | 16QAM      | 25      | 12        | 18.99                      | 18.97                      | 18.94                      |                       |                           |  |
| 10              | 16QAM      | 25      | 25        | 18.98                      | 18.93                      | 18.99                      |                       | 20                        |  |
| 10              | 16QAM      | 50      | 0         | 18.99                      | 18.95                      | 18.93                      |                       |                           |  |
| 10              | 64QAM      | 1       | 0         | 19.17                      | 19.03                      | 19.09                      |                       |                           |  |
| 10              | 64QAM      | 1       | 25        | 19.15                      | 19.13                      | 19.15                      |                       |                           |  |
| 10              | 64QAM      | 1       | 49        | 19.12                      | 19.11                      | 19.11                      |                       |                           |  |
| 10              | 64QAM      | 25      | 0         | 18.99                      | 18.92                      | 18.93                      |                       | 20                        |  |
| 10              | 64QAM      | 25      | 12        | 19.03                      | 19.00                      | 18.98                      |                       |                           |  |
| 10              | 64QAM      | 25      | 25        | 19.02                      | 19.00                      | 19.06                      |                       |                           |  |
| 10              | 64QAM      | 50      | 0         | 19.02                      | 18.99                      | 18.97                      |                       |                           |  |
| Channel         |            |         |           | 19975                      | 20175                      | 20375                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1712.5                     | 1732.5                     | 1752.5                     |                       |                           |  |
| 5               | QPSK       | 1       | 0         | 18.88                      | 18.80                      | 18.89                      |                       | 20                        |  |
| 5               | QPSK       | 1       | 12        | 18.91                      | 18.84                      | 18.92                      |                       |                           |  |
| 5               | QPSK       | 1       | 24        | 18.90                      | 18.85                      | 18.91                      |                       |                           |  |
| 5               | QPSK       | 12      | 0         | 18.99                      | 18.88                      | 18.94                      |                       |                           |  |
| 5               | QPSK       | 12      | 7         | 19.02                      | 18.95                      | 19.02                      |                       | 20                        |  |
| 5               | QPSK       | 12      | 13        | 19.01                      | 18.95                      | 18.99                      |                       |                           |  |
| 5               | QPSK       | 25      | 0         | 18.98                      | 18.94                      | 18.94                      |                       |                           |  |
| 5               | 16QAM      | 1       | 0         | 19.22                      | 19.10                      | 19.18                      |                       |                           |  |
| 5               | 16QAM      | 1       | 12        | 19.26                      | 19.15                      | 19.08                      |                       | 20                        |  |
| 5               | 16QAM      | 1       | 24        | 19.26                      | 19.21                      | 19.20                      |                       |                           |  |
| 5               | 16QAM      | 12      | 0         | 19.00                      | 18.87                      | 18.98                      |                       |                           |  |
| 5               | 16QAM      | 12      | 7         | 19.02                      | 18.97                      | 19.02                      |                       | 20                        |  |
| 5               | 16QAM      | 12      | 13        | 19.02                      | 18.93                      | 18.99                      |                       |                           |  |
| 5               | 16QAM      | 25      | 0         | 18.98                      | 18.97                      | 18.98                      |                       |                           |  |
| 5               | 64QAM      | 1       | 0         | 19.19                      | 19.08                      | 19.14                      |                       |                           |  |
| 5               | 64QAM      | 1       | 12        | 19.18                      | 19.10                      | 19.04                      |                       |                           |  |
| 5               | 64QAM      | 1       | 24        | 19.22                      | 19.14                      | 19.07                      |                       |                           |  |
| 5               | 64QAM      | 12      | 0         | 19.06                      | 18.91                      | 19.06                      |                       | 20                        |  |
| 5               | 64QAM      | 12      | 7         | 19.09                      | 19.00                      | 19.09                      |                       |                           |  |
| 5               | 64QAM      | 12      | 13        | 19.07                      | 19.01                      | 19.05                      |                       |                           |  |
| 5               | 64QAM      | 25      | 0         | 19.06                      | 18.98                      | 18.99                      |                       |                           |  |
| Channel         |            |         |           | 19965                      | 20175                      | 20385                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1711.5                     | 1732.5                     | 1753.5                     |                       |                           |  |
| 3               | QPSK       | 1       | 0         | 18.92                      | 18.80                      | 18.92                      |                       | 20                        |  |
| 3               | QPSK       | 1       | 8         | 18.95                      | 18.91                      | 18.94                      |                       |                           |  |
| 3               | QPSK       | 1       | 14        | 18.90                      | 18.87                      | 18.93                      |                       |                           |  |
| 3               | QPSK       | 8       | 0         | 18.96                      | 18.89                      | 18.96                      |                       |                           |  |
| 3               | QPSK       | 8       | 4         | 19.03                      | 18.96                      | 19.03                      |                       | 20                        |  |
| 3               | QPSK       | 8       | 7         | 19.01                      | 18.93                      | 18.99                      |                       |                           |  |
| 3               | QPSK       | 15      | 0         | 18.98                      | 18.95                      | 19.00                      |                       |                           |  |
| 3               | 16QAM      | 1       | 0         | 19.19                      | 19.09                      | 19.20                      |                       |                           |  |
| 3               | 16QAM      | 1       | 8         | 19.30                      | 19.23                      | 19.22                      |                       |                           |  |
| 3               | 16QAM      | 1       | 14        | 19.24                      | 19.17                      | 19.23                      |                       |                           |  |
| 3               | 16QAM      | 8       | 0         | 19.03                      | 18.94                      | 18.99                      |                       | 20                        |  |
| 3               | 16QAM      | 8       | 4         | 19.08                      | 19.02                      | 19.04                      |                       |                           |  |
| 3               | 16QAM      | 8       | 7         | 19.05                      | 19.01                      | 18.99                      |                       |                           |  |
| 3               | 16QAM      | 15      | 0         | 18.99                      | 18.96                      | 19.00                      |                       |                           |  |
| 3               | 64QAM      | 1       | 0         | 19.18                      | 19.07                      | 19.10                      |                       |                           |  |
| 3               | 64QAM      | 1       | 8         | 19.26                      | 19.19                      | 19.15                      |                       | 20                        |  |
| 3               | 64QAM      | 1       | 14        | 19.21                      | 19.13                      | 19.06                      |                       |                           |  |
| 3               | 64QAM      | 8       | 0         | 19.05                      | 18.91                      | 19.05                      |                       |                           |  |
| 3               | 64QAM      | 8       | 4         | 19.12                      | 19.01                      | 19.08                      |                       |                           |  |
| 3               | 64QAM      | 8       | 7         | 19.07                      | 18.99                      | 19.07                      |                       | 20                        |  |
| 3               | 64QAM      | 15      | 0         | 19.03                      | 19.00                      | 19.03                      |                       |                           |  |
| Channel         |            |         |           | 19957                      | 20175                      | 20393                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1710.7                     | 1732.5                     | 1754.3                     |                       |                           |  |
| 1.4             | QPSK       | 1       | 0         | 18.80                      | 18.80                      | 18.80                      |                       | 20                        |  |
| 1.4             | QPSK       | 1       | 3         | 18.87                      | 18.84                      | 18.87                      |                       |                           |  |
| 1.4             | QPSK       | 1       | 5         | 18.82                      | 18.80                      | 18.80                      |                       |                           |  |
| 1.4             | QPSK       | 3       | 0         | 18.86                      | 18.80                      | 18.81                      |                       |                           |  |
| 1.4             | QPSK       | 3       | 1         | 18.89                      | 18.83                      | 18.85                      |                       |                           |  |
| 1.4             | QPSK       | 3       | 3         | 18.82                      | 18.80                      | 18.84                      |                       | 20                        |  |
| 1.4             | QPSK       | 6       | 0         | 18.91                      | 18.86                      | 18.88                      |                       |                           |  |
| 1.4             | 16QAM      | 1       | 0         | 19.15                      | 19.10                      | 19.13                      |                       |                           |  |
| 1.4             | 16QAM      | 1       | 3         | 19.22                      | 19.15                      | 19.18                      |                       |                           |  |
| 1.4             | 16QAM      | 1       | 5         | 19.15                      | 19.11                      | 19.12                      |                       | 20                        |  |
| 1.4             | 16QAM      | 3       | 0         | 18.94                      | 18.88                      | 18.88                      |                       |                           |  |
| 1.4             | 16QAM      | 3       | 1         | 19.00                      | 18.91                      | 18.90                      |                       |                           |  |
| 1.4             | 16QAM      | 3       | 3         | 19.03                      | 18.87                      | 18.85                      |                       | 20                        |  |
| 1.4             | 16QAM      | 6       | 0         | 18.97                      | 18.91                      | 18.99                      |                       |                           |  |
| 1.4             | 16QAM      | 6       | 1         | 19.04                      | 19.00                      | 19.06                      |                       |                           |  |
| 1.4             | 64QAM      | 1       | 0         | 19.05                      | 19.01                      | 19.04                      |                       | 20                        |  |
| 1.4             | 64QAM      | 3       | 1         | 19.13                      | 19.03                      | 19.07                      |                       |                           |  |
| 1.4             | 64QAM      | 3       | 3         | 19.07                      | 19.00                      | 19.03                      |                       |                           |  |



| Band 5          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20450           | 20525              | 20600            |                     |
| Frequency (MHz) |            |         |           | 825             | 835.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.43           | 24.46              | 24.43            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.39           | 24.46              | 24.45            |                     |
| 10              | QPSK       | 1       | 49        | 24.42           | 24.47              | 24.40            |                     |
| 10              | QPSK       | 25      | 0         | 23.49           | 23.55              | 23.56            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.56           | 23.57              | 23.57            |                     |
| 10              | QPSK       | 25      | 25        | 23.54           | 23.57              | 23.47            |                     |
| 10              | QPSK       | 50      | 0         | 23.57           | 23.55              | 23.56            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.84           | 23.81              | 23.88            |                     |
| 10              | 16QAM      | 1       | 25        | 23.77           | 23.82              | 23.84            |                     |
| 10              | 16QAM      | 1       | 49        | 23.63           | 23.86              | 23.78            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.49           | 22.55              | 22.53            |                     |
| 10              | 16QAM      | 25      | 12        | 22.59           | 22.57              | 22.65            |                     |
| 10              | 16QAM      | 25      | 25        | 22.54           | 22.60              | 22.57            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.56           | 22.55              | 22.55            |                     |
| 10              | 64QAM      | 1       | 0         | 22.71           | 22.68              | 22.74            |                     |
| 10              | 64QAM      | 1       | 25        | 22.73           | 22.49              | 22.51            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.73           | 22.35              | 21.70            |                     |
| 10              | 64QAM      | 25      | 0         | 21.54           | 21.60              | 21.58            |                     |
| 10              | 64QAM      | 25      | 12        | 21.63           | 21.53              | 21.47            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.58           | 21.61              | 20.76            |                     |
| 10              | 64QAM      | 50      | 0         | 21.59           | 21.57              | 21.25            |                     |
| Channel         |            |         |           | 20425           | 20525              | 20625            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.5           | 836.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.46           | 24.46              | 24.45            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.44           | 24.46              | 24.19            |                     |
| 5               | QPSK       | 1       | 24        | 24.46           | 24.45              | 24.23            |                     |
| 5               | QPSK       | 12      | 0         | 23.59           | 23.59              | 23.58            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.54           | 23.61              | 23.25            |                     |
| 5               | QPSK       | 12      | 13        | 23.52           | 23.56              | 23.24            |                     |
| 5               | QPSK       | 25      | 0         | 23.54           | 23.52              | 23.37            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.91           | 23.90              | 23.87            |                     |
| 5               | 16QAM      | 1       | 12        | 23.78           | 23.86              | 23.43            |                     |
| 5               | 16QAM      | 1       | 24        | 23.79           | 23.83              | 23.43            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.65           | 22.62              | 22.60            |                     |
| 5               | 16QAM      | 12      | 7         | 22.57           | 22.64              | 22.38            |                     |
| 5               | 16QAM      | 12      | 13        | 22.52           | 22.59              | 22.35            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.57           | 22.59              | 22.51            |                     |
| 5               | 64QAM      | 1       | 0         | 22.87           | 22.79              | 22.18            |                     |
| 5               | 64QAM      | 1       | 12        | 22.72           | 22.71              | 21.72            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.72           | 22.73              | 21.73            |                     |
| 5               | 64QAM      | 12      | 0         | 21.69           | 21.69              | 20.87            |                     |
| 5               | 64QAM      | 12      | 7         | 21.63           | 21.56              | 21.85            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.60           | 21.61              | 20.71            |                     |
| 5               | 64QAM      | 25      | 0         | 21.57           | 21.61              | 20.73            |                     |
| Channel         |            |         |           | 20415           | 20525              | 20635            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 825.5           | 836.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.43           | 24.43              | 24.20            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.43           | 24.45              | 24.13            |                     |
| 3               | QPSK       | 1       | 14        | 24.39           | 24.42              | 24.17            |                     |
| 3               | QPSK       | 8       | 0         | 23.60           | 23.60              | 23.07            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.55           | 23.62              | 23.16            |                     |
| 3               | QPSK       | 8       | 7         | 23.52           | 23.58              | 23.25            |                     |
| 3               | QPSK       | 15      | 0         | 23.57           | 23.56              | 23.17            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.87           | 23.84              | 23.44            |                     |
| 3               | 16QAM      | 1       | 8         | 23.89           | 23.89              | 23.38            |                     |
| 3               | 16QAM      | 1       | 14        | 23.74           | 23.82              | 23.44            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.66           | 22.61              | 22.26            |                     |
| 3               | 16QAM      | 8       | 4         | 22.66           | 22.71              | 22.30            |                     |
| 3               | 16QAM      | 8       | 7         | 22.60           | 22.65              | 22.40            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.60           | 22.54              | 22.27            |                     |
| 3               | 64QAM      | 1       | 0         | 22.81           | 22.74              | 21.74            |                     |
| 3               | 64QAM      | 1       | 8         | 22.63           | 22.74              | 21.72            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.70           | 22.64              | 21.71            |                     |
| 3               | 64QAM      | 8       | 0         | 21.69           | 21.58              | 20.75            |                     |
| 3               | 64QAM      | 8       | 4         | 21.66           | 21.56              | 20.73            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.62           | 21.61              | 20.80            |                     |
| 3               | 64QAM      | 15      | 0         | 21.63           | 21.60              | 20.71            |                     |
| Channel         |            |         |           | 20407           | 20525              | 20643            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 824.7           | 836.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.42           | 24.41              | 24.09            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.46           | 24.45              | 24.26            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.38           | 24.39              | 24.21            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.41           | 24.41              | 24.22            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.46           | 24.46              | 24.30            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.41           | 24.45              | 24.42            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.50           | 23.51              | 23.36            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.75           | 23.73              | 23.46            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.79           | 23.84              | 23.67            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.68           | 23.74              | 23.60            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.56           | 23.51              | 23.29            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.60           | 23.58              | 23.35            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.51           | 23.53              | 23.45            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.58           | 22.61              | 22.49            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.69           | 22.61              | 21.73            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.75           | 22.64              | 21.71            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.64           | 22.61              | 21.72            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.66           | 22.60              | 21.73            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.69           | 22.63              | 21.74            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.63           | 22.60              | 21.75            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.54           | 21.47              | 20.72            |                     |



| Band 7          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Art 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850           | 21100              | 21350            |                     |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |
| 20              | QPSK       | 1       | 0         | 20.81           | 20.82              | 20.83            | 22                  |
| 20              | QPSK       | 1       | 49        | 20.80           | 20.86              | 20.81            |                     |
| 20              | QPSK       | 1       | 99        | 20.83           | 20.92              | 20.89            |                     |
| 20              | QPSK       | 50      | 0         | 20.82           | 20.91              | 20.93            | 22                  |
| 20              | QPSK       | 50      | 24        | 20.84           | 20.92              | 20.96            |                     |
| 20              | QPSK       | 50      | 50        | 20.95           | 21.03              | 21.02            |                     |
| 20              | QPSK       | 100     | 0         | 20.92           | 20.94              | 20.93            | 22                  |
| 20              | 16QAM      | 1       | 0         | 21.06           | 21.11              | 21.16            |                     |
| 20              | 16QAM      | 1       | 49        | 21.13           | 21.18              | 21.17            |                     |
| 20              | 16QAM      | 1       | 99        | 21.14           | 21.27              | 21.23            | 22                  |
| 20              | 16QAM      | 50      | 0         | 20.81           | 20.99              | 20.94            |                     |
| 20              | 16QAM      | 50      | 24        | 20.93           | 20.97              | 20.96            |                     |
| 20              | 16QAM      | 50      | 50        | 20.95           | 21.05              | 21.03            | 22                  |
| 20              | 16QAM      | 100     | 0         | 20.92           | 20.90              | 20.93            |                     |
| 20              | 64QAM      | 1       | 0         | 20.87           | 20.98              | 20.99            |                     |
| 20              | 64QAM      | 1       | 49        | 20.96           | 21.06              | 20.98            | 22                  |
| 20              | 64QAM      | 1       | 99        | 21.02           | 21.14              | 21.12            |                     |
| 20              | 64QAM      | 50      | 0         | 20.83           | 20.91              | 20.93            |                     |
| 20              | 64QAM      | 50      | 24        | 20.94           | 20.96              | 20.96            | 22                  |
| 20              | 64QAM      | 50      | 50        | 20.95           | 21.03              | 21.05            |                     |
| 20              | 64QAM      | 100     | 0         | 20.92           | 20.94              | 20.94            |                     |
| Channel         |            |         |           | 20825           | 21100              | 21375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5          | 2535               | 2562.5           |                     |
| 15              | QPSK       | 1       | 0         | 20.81           | 20.82              | 20.81            | 22                  |
| 15              | QPSK       | 1       | 37        | 20.81           | 20.83              | 20.81            |                     |
| 15              | QPSK       | 1       | 74        | 20.80           | 20.83              | 20.85            |                     |
| 15              | QPSK       | 36      | 0         | 20.82           | 20.86              | 20.91            | 22                  |
| 15              | QPSK       | 36      | 20        | 20.92           | 20.82              | 20.89            |                     |
| 15              | QPSK       | 36      | 39        | 20.95           | 20.95              | 21.00            |                     |
| 15              | QPSK       | 75      | 0         | 20.85           | 20.90              | 20.91            | 22                  |
| 15              | 16QAM      | 1       | 0         | 20.99           | 21.11              | 21.14            |                     |
| 15              | 16QAM      | 1       | 37        | 21.07           | 21.14              | 21.11            |                     |
| 15              | 16QAM      | 1       | 74        | 21.05           | 21.21              | 21.18            | 22                  |
| 15              | 16QAM      | 36      | 0         | 20.81           | 20.86              | 20.92            |                     |
| 15              | 16QAM      | 36      | 20        | 20.86           | 20.91              | 20.94            |                     |
| 15              | 16QAM      | 36      | 39        | 20.95           | 21.04              | 20.93            | 22                  |
| 15              | 16QAM      | 75      | 0         | 20.83           | 20.87              | 20.93            |                     |
| 15              | 64QAM      | 1       | 0         | 20.80           | 20.95              | 20.89            |                     |
| 15              | 64QAM      | 1       | 37        | 20.91           | 20.98              | 20.95            | 22                  |
| 15              | 64QAM      | 1       | 74        | 21.00           | 21.07              | 21.12            |                     |
| 15              | 64QAM      | 36      | 0         | 20.80           | 20.89              | 20.85            |                     |
| 15              | 64QAM      | 36      | 20        | 20.93           | 20.96              | 20.95            | 22                  |
| 15              | 64QAM      | 36      | 39        | 20.88           | 21.02              | 20.96            |                     |
| 15              | 64QAM      | 75      | 0         | 20.85           | 20.94              | 20.86            |                     |
| Channel         |            |         |           | 20900           | 21100              | 21400            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505            | 2535               | 2565             |                     |
| 10              | QPSK       | 1       | 0         | 20.80           | 20.82              | 20.80            | 22                  |
| 10              | QPSK       | 1       | 25        | 20.83           | 20.83              | 20.81            |                     |
| 10              | QPSK       | 1       | 49        | 20.81           | 20.83              | 20.84            |                     |
| 10              | QPSK       | 25      | 0         | 20.82           | 20.85              | 20.93            | 22                  |
| 10              | QPSK       | 25      | 12        | 20.84           | 20.83              | 20.85            |                     |
| 10              | QPSK       | 25      | 25        | 20.85           | 21.00              | 20.98            |                     |
| 10              | QPSK       | 50      | 0         | 20.83           | 20.94              | 20.87            | 22                  |
| 10              | 16QAM      | 1       | 0         | 21.04           | 21.10              | 21.13            |                     |
| 10              | 16QAM      | 1       | 25        | 21.13           | 21.11              | 21.12            |                     |
| 10              | 16QAM      | 1       | 49        | 21.06           | 21.26              | 21.16            | 22                  |
| 10              | 16QAM      | 25      | 0         | 20.81           | 20.82              | 20.91            |                     |
| 10              | 16QAM      | 25      | 12        | 20.93           | 20.93              | 20.86            |                     |
| 10              | 16QAM      | 25      | 25        | 20.95           | 21.02              | 20.98            | 22                  |
| 10              | 16QAM      | 50      | 0         | 20.90           | 20.85              | 20.91            |                     |
| 10              | 64QAM      | 1       | 0         | 20.83           | 20.92              | 20.98            |                     |
| 10              | 64QAM      | 1       | 25        | 20.96           | 20.96              | 20.88            | 22                  |
| 10              | 64QAM      | 1       | 49        | 20.96           | 21.06              | 21.03            |                     |
| 10              | 64QAM      | 25      | 0         | 20.88           | 20.89              | 20.93            |                     |
| 10              | 64QAM      | 25      | 12        | 20.87           | 20.95              | 20.96            | 22                  |
| 10              | 64QAM      | 25      | 25        | 20.95           | 20.94              | 20.95            |                     |
| 10              | 64QAM      | 50      | 0         | 20.87           | 20.89              | 20.92            |                     |
| Channel         |            |         |           | 20775           | 21100              | 21425            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5          | 2535               | 2567.5           |                     |
| 5               | QPSK       | 1       | 0         | 20.83           | 20.80              | 20.82            | 22                  |
| 5               | QPSK       | 1       | 12        | 20.82           | 20.84              | 20.85            |                     |
| 5               | QPSK       | 1       | 24        | 20.83           | 20.83              | 20.86            |                     |
| 5               | QPSK       | 12      | 0         | 20.85           | 20.86              | 20.91            | 22                  |
| 5               | QPSK       | 12      | 7         | 20.88           | 20.87              | 20.89            |                     |
| 5               | QPSK       | 12      | 13        | 20.88           | 20.94              | 20.95            |                     |
| 5               | QPSK       | 25      | 0         | 20.87           | 20.87              | 20.93            | 22                  |
| 5               | 16QAM      | 1       | 0         | 20.96           | 21.06              | 21.12            |                     |
| 5               | 16QAM      | 1       | 12        | 21.07           | 21.18              | 21.14            |                     |
| 5               | 16QAM      | 1       | 24        | 21.14           | 21.25              | 21.23            | 22                  |
| 5               | 16QAM      | 12      | 0         | 20.83           | 20.87              | 20.92            |                     |
| 5               | 16QAM      | 12      | 7         | 20.93           | 20.88              | 20.91            |                     |
| 5               | 16QAM      | 12      | 13        | 20.90           | 20.96              | 20.95            | 22                  |
| 5               | 16QAM      | 25      | 0         | 20.82           | 20.82              | 20.89            |                     |
| 5               | 64QAM      | 1       | 0         | 20.81           | 20.96              | 20.93            |                     |
| 5               | 64QAM      | 1       | 12        | 20.90           | 20.98              | 20.97            | 22                  |
| 5               | 64QAM      | 1       | 24        | 20.97           | 21.08              | 21.10            |                     |
| 5               | 64QAM      | 12      | 0         | 20.87           | 20.89              | 20.90            |                     |
| 5               | 64QAM      | 12      | 7         | 20.93           | 20.89              | 20.87            | 22                  |
| 5               | 64QAM      | 12      | 13        | 20.91           | 20.96              | 21.05            |                     |
| 5               | 64QAM      | 25      | 0         | 20.86           | 20.87              | 20.90            |                     |



| Band 12         |            |         |           |          |       |       |                     |  |  |
|-----------------|------------|---------|-----------|----------|-------|-------|---------------------|--|--|
| Ant 1           |            |         |           |          |       |       |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power    | Power | Power | Tune-up limit (dBm) |  |  |
|                 |            |         |           | Channels | Ch. / | Ch. / |                     |  |  |
| Channel         |            |         |           | 23060    | 23095 | 23130 |                     |  |  |
| Frequency (MHz) |            |         |           | 704      | 707.5 | 711   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.57    | 24.53 | 24.51 | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.58    | 24.57 | 24.54 |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.63    | 24.62 | 24.58 |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.64    | 23.68 | 23.68 | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.74    | 23.70 | 23.69 |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.72    | 23.75 | 23.74 |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.73    | 23.67 | 23.68 | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 23.94    | 23.91 | 23.89 |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 23.94    | 23.99 | 23.95 |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 24.00    | 24.00 | 23.96 | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.66    | 22.71 | 22.68 |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.75    | 22.69 | 22.68 |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.70    | 22.76 | 22.71 | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.72    | 22.69 | 22.64 |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.60    | 22.76 | 22.82 |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.56    | 22.89 | 22.57 | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.58    | 22.88 | 22.83 |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.48    | 21.60 | 21.64 |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.63    | 21.71 | 21.72 | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 21.72    | 21.77 | 21.76 |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.55    | 21.68 | 21.70 |                     |  |  |
| Channel         |            |         |           | 23035    | 23095 | 23155 | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 701.5    | 707.5 | 713.5 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.62    | 24.59 | 24.56 | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.60    | 24.62 | 24.60 |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.62    | 24.61 | 24.61 |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.73    | 23.71 | 23.68 | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.69    | 23.69 | 23.74 |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.71    | 23.71 | 23.67 |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.70    | 23.67 | 23.66 | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 23.96    | 23.92 | 23.87 |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.98    | 23.95 | 23.93 |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 23.95    | 23.93 | 23.93 | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.77    | 22.73 | 22.70 |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.74    | 22.70 | 22.79 |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.69    | 22.76 | 22.68 | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.73    | 22.71 | 22.70 |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.46    | 22.42 | 22.84 |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.83    | 22.87 | 22.86 | 23.7                |  |  |
| 5               | 64QAM      | 1       | 24        | 22.48    | 22.86 | 22.85 |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.51    | 21.79 | 21.76 |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.65    | 21.76 | 21.81 | 22.7                |  |  |
| 5               | 64QAM      | 12      | 13        | 21.71    | 21.79 | 21.76 |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.60    | 21.70 | 21.70 |                     |  |  |
| Channel         |            |         |           | 23025    | 23095 | 23165 | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 700.5    | 707.5 | 714.5 |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.62    | 24.60 | 24.61 | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.62    | 24.62 | 24.60 |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.57    | 24.60 | 24.58 |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.69    | 23.70 | 22.70 | 24.7                |  |  |
| 3               | QPSK       | 8       | 4         | 23.69    | 23.64 | 22.71 |                     |  |  |
| 3               | QPSK       | 8       | 7         | 23.62    | 23.70 | 22.70 |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.70    | 23.66 | 22.70 | 24.7                |  |  |
| 3               | 16QAM      | 1       | 0         | 24.00    | 24.02 | 23.95 |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 23.96    | 23.98 | 23.98 |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 23.91    | 23.96 | 23.91 | 23.7                |  |  |
| 3               | 16QAM      | 8       | 0         | 22.75    | 22.71 | 22.71 |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.78    | 22.75 | 22.82 |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.71    | 22.77 | 22.71 | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.73    | 22.69 | 22.68 |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.46    | 22.70 | 22.87 |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.67    | 22.88 | 22.90 | 23.7                |  |  |
| 3               | 64QAM      | 1       | 14        | 22.66    | 22.94 | 22.81 |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 21.50    | 21.75 | 21.71 |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.58    | 21.74 | 21.79 | 22.7                |  |  |
| 3               | 64QAM      | 8       | 7         | 21.58    | 21.79 | 21.71 |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.55    | 21.68 | 21.69 |                     |  |  |
| Channel         |            |         |           | 23017    | 23095 | 23173 | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 699.7    | 707.5 | 715.3 |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.54    | 24.50 | 24.53 | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.60    | 24.61 | 24.57 |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.52    | 24.51 | 24.01 |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.59    | 24.54 | 24.52 | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.64    | 24.56 | 24.58 |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.57    | 24.60 | 24.52 |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.62    | 23.64 | 23.59 | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.87    | 23.93 | 23.87 |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.89    | 23.96 | 23.88 |                     |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.84    | 23.87 | 23.87 | 24.7                |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.64    | 23.58 | 23.62 |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.73    | 23.66 | 23.65 |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.61    | 23.65 | 23.59 | 23.7                |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.71    | 22.71 | 22.67 |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.59    | 22.76 | 22.77 |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.76    | 22.85 | 22.76 | 23.7                |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.74    | 22.78 | 22.68 |                     |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.55    | 22.72 | 22.74 |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.59    | 22.77 | 22.79 | 22.7                |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.60    | 22.77 | 22.77 |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.44    | 21.65 | 21.61 |                     |  |  |

| Band 13         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 1           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23230          |                   |                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 782            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.17             |                 | 25.2                |
| 10              | QPSK       | 1       | 25        |                | 24.10             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.14             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.17             |                 | 24.2                |
| 10              | QPSK       | 25      | 12        |                | 23.21             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.21             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.20             |                 | 24.2                |
| 10              | 16QAM      | 1       | 0         |                | 23.42             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 23.45             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.42             |                 | 23.2                |
| 10              | 16QAM      | 25      | 0         |                | 22.20             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.23             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.20             |                 | 23.2                |
| 10              | 16QAM      | 50      | 0         |                | 22.23             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.40             |                 | 23.2                |
| 10              | 64QAM      | 1       | 49        |                | 22.34             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.24             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.23             |                 | 22.2                |
| 10              | 64QAM      | 25      | 25        |                | 21.25             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.26             |                 |                     |
| Channel         |            |         |           | 23205          | 23230             | 23255           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 779.5          | 782               | 784.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.15          | 24.11             | 24.16           | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.16          | 24.14             | 24.11           |                     |
| 5               | QPSK       | 1       | 24        | 24.15          | 24.12             | 24.14           |                     |
| 5               | QPSK       | 12      | 0         | 23.22          | 23.22             | 23.17           | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.28          | 23.20             | 23.19           |                     |
| 5               | QPSK       | 12      | 13        | 23.27          | 23.23             | 23.16           |                     |
| 5               | QPSK       | 25      | 0         | 23.28          | 23.18             | 23.17           | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.38          | 23.42             | 23.37           |                     |
| 5               | 16QAM      | 1       | 12        | 23.39          | 23.40             | 23.32           |                     |
| 5               | 16QAM      | 1       | 24        | 23.46          | 23.41             | 23.37           | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.29          | 22.25             | 22.23           |                     |
| 5               | 16QAM      | 12      | 7         | 22.31          | 22.23             | 22.24           |                     |
| 5               | 16QAM      | 12      | 13        | 22.29          | 22.26             | 22.24           | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.31          | 22.21             | 22.25           |                     |
| 5               | 64QAM      | 1       | 0         | 21.89          | 22.34             | 22.30           |                     |
| 5               | 64QAM      | 1       | 12        | 22.40          | 22.32             | 22.33           | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.38          | 22.38             | 22.32           |                     |
| 5               | 64QAM      | 12      | 0         | 21.34          | 21.30             | 21.26           |                     |
| 5               | 64QAM      | 12      | 7         | 21.32          | 21.26             | 21.25           | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.25          | 21.28             | 21.25           |                     |
| 5               | 64QAM      | 25      | 0         | 20.96          | 21.26             | 21.23           |                     |

| Band 14         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 1           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23330          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 793            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.59             |                 | 25.7                |
| 10              | QPSK       | 1       | 25        |                | 24.53             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.43             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.56             |                 | 24.7                |
| 10              | QPSK       | 25      | 12        |                | 23.56             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.59             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.53             |                 | 24.7                |
| 10              | 16QAM      | 1       | 0         |                | 23.94             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 23.92             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.83             |                 | 23.7                |
| 10              | 16QAM      | 25      | 0         |                | 22.55             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.53             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.58             |                 | 22.7                |
| 10              | 16QAM      | 50      | 0         |                | 22.53             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.62             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.64             |                 | 23.7                |
| 10              | 64QAM      | 1       | 49        |                | 22.72             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.39             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.38             |                 | 22.7                |
| 10              | 64QAM      | 25      | 25        |                | 21.58             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.44             |                 |                     |
| Channel         |            |         |           | 23305          | 23330             | 23355           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5          | 793               | 795.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.51          | 24.49             | 24.44           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.58          | 24.56             | 24.56           |                     |
| 5               | QPSK       | 1       | 24        | 24.54          | 24.49             | 24.43           |                     |
| 5               | QPSK       | 12      | 0         | 23.59          | 23.56             | 23.51           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.66          | 23.57             | 23.53           |                     |
| 5               | QPSK       | 12      | 13        | 23.59          | 23.56             | 23.55           |                     |
| 5               | QPSK       | 25      | 0         | 23.58          | 23.53             | 23.50           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.63          | 23.60             | 23.62           |                     |
| 5               | 16QAM      | 1       | 12        | 23.68          | 23.66             | 23.67           |                     |
| 5               | 16QAM      | 1       | 24        | 23.87          | 23.80             | 23.78           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64          | 22.57             | 22.55           |                     |
| 5               | 16QAM      | 12      | 7         | 22.64          | 22.64             | 22.58           |                     |
| 5               | 16QAM      | 12      | 13        | 22.61          | 22.59             | 22.58           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.66          | 22.54             | 22.52           |                     |
| 5               | 64QAM      | 1       | 0         | 22.60          | 22.51             | 22.49           |                     |
| 5               | 64QAM      | 1       | 12        | 22.57          | 22.35             | 22.58           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.32          | 22.41             | 22.77           |                     |
| 5               | 64QAM      | 12      | 0         | 21.50          | 21.32             | 21.31           |                     |
| 5               | 64QAM      | 12      | 7         | 21.44          | 21.28             | 21.63           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.31          | 21.27             | 21.61           |                     |
| 5               | 64QAM      | 25      | 0         | 21.34          | 21.26             | 21.51           |                     |

| Band 17         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |
| 10              | QPSK       | 1       | 0         | 24.60           | 24.56              | 24.55            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.61           | 24.62              | 24.59            |                     |
| 10              | QPSK       | 1       | 49        | 24.64           | 24.67              | 24.63            |                     |
| 10              | QPSK       | 25      | 0         | 23.65           | 23.68              | 23.66            |                     |
| 10              | QPSK       | 25      | 12        | 23.79           | 23.75              | 23.70            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.81           | 23.82              | 23.80            |                     |
| 10              | QPSK       | 50      | 0         | 23.69           | 23.72              | 23.69            |                     |
| 10              | 16QAM      | 1       | 0         | 23.93           | 23.95              | 23.94            |                     |
| 10              | 16QAM      | 1       | 25        | 24.03           | 24.06              | 24.01            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 24.01           | 24.02              | 23.98            |                     |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.85              | 22.85            |                     |
| 10              | 16QAM      | 25      | 12        | 22.79           | 22.75              | 22.73            |                     |
| 10              | 16QAM      | 25      | 25        | 22.78           | 22.77              | 22.78            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.69           | 22.69              | 22.67            |                     |
| 10              | 64QAM      | 1       | 0         | 22.64           | 22.70              | 22.79            |                     |
| 10              | 64QAM      | 1       | 25        | 22.72           | 22.67              | 22.63            |                     |
| 10              | 64QAM      | 1       | 49        | 22.84           | 22.76              | 22.59            | 23.7                |
| 10              | 64QAM      | 25      | 0         | 21.42           | 21.42              | 21.41            |                     |
| 10              | 64QAM      | 25      | 12        | 21.51           | 21.48              | 21.48            |                     |
| 10              | 64QAM      | 25      | 25        | 21.61           | 21.67              | 21.66            |                     |
| 10              | 64QAM      | 50      | 0         | 21.53           | 21.64              | 21.57            | 22.7                |
| Channel         |            |         |           | 23785           | 23790              | 23825            |                     |
| Frequency (MHz) |            |         |           | 706.5           | 710                | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.57           | 24.58              | 24.58            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.66           | 24.65              | 24.63            |                     |
| 5               | QPSK       | 1       | 24        | 24.65           | 24.66              | 24.64            |                     |
| 5               | QPSK       | 12      | 0         | 23.66           | 23.69              | 23.67            |                     |
| 5               | QPSK       | 12      | 7         | 23.76           | 23.76              | 23.78            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.74           | 23.77              | 23.73            |                     |
| 5               | QPSK       | 25      | 0         | 23.74           | 23.71              | 23.75            |                     |
| 5               | 16QAM      | 1       | 0         | 23.91           | 23.93              | 23.91            |                     |
| 5               | 16QAM      | 1       | 12        | 23.95           | 23.97              | 23.96            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 24.00           | 24.05              | 23.99            |                     |
| 5               | 16QAM      | 12      | 0         | 22.73           | 22.71              | 22.74            |                     |
| 5               | 16QAM      | 12      | 7         | 22.79           | 22.77              | 22.79            |                     |
| 5               | 16QAM      | 12      | 13        | 22.77           | 22.80              | 22.77            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.74           | 22.76              | 22.77            |                     |
| 5               | 64QAM      | 1       | 0         | 22.26           | 22.42              | 22.71            |                     |
| 5               | 64QAM      | 1       | 12        | 22.62           | 22.61              | 22.61            |                     |
| 5               | 64QAM      | 1       | 24        | 22.53           | 22.52              | 22.48            | 23.7                |
| 5               | 64QAM      | 12      | 0         | 21.55           | 21.47              | 21.65            |                     |
| 5               | 64QAM      | 12      | 7         | 21.69           | 21.47              | 21.76            |                     |
| 5               | 64QAM      | 12      | 13        | 21.66           | 21.50              | 21.70            |                     |
| 5               | 64QAM      | 25      | 0         | 21.52           | 21.44              | 21.59            | 22.7                |



| Band 25         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26140           | 26340              | 26590            |                     |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |
| 20              | QPSK       | 1       | 0         | 18.30           | 18.31              | 18.23            | 19.4                |
| 20              | QPSK       | 1       | 49        | 18.21           | 18.26              | 18.23            |                     |
| 20              | QPSK       | 1       | 99        | 18.24           | 18.20              | 18.21            |                     |
| 20              | QPSK       | 50      | 0         | 18.35           | 18.32              | 18.28            | 19.4                |
| 20              | QPSK       | 50      | 24        | 18.40           | 18.43              | 18.35            |                     |
| 20              | QPSK       | 50      | 50        | 18.33           | 18.37              | 18.33            |                     |
| 20              | QPSK       | 100     | 0         | 18.40           | 18.42              | 18.29            | 19.4                |
| 20              | 16QAM      | 1       | 0         | 18.65           | 18.63              | 18.61            |                     |
| 20              | 16QAM      | 1       | 49        | 18.57           | 18.61              | 18.55            |                     |
| 20              | 16QAM      | 1       | 99        | 18.46           | 18.55              | 18.48            | 19.4                |
| 20              | 16QAM      | 50      | 0         | 18.36           | 18.39              | 18.33            |                     |
| 20              | 16QAM      | 50      | 24        | 18.40           | 18.45              | 18.31            |                     |
| 20              | 16QAM      | 50      | 50        | 18.36           | 18.41              | 18.36            | 19.4                |
| 20              | 16QAM      | 100     | 0         | 18.39           | 18.40              | 18.32            |                     |
| 20              | 64QAM      | 1       | 0         | 18.55           | 18.49              | 18.48            |                     |
| 20              | 64QAM      | 1       | 49        | 18.49           | 18.51              | 18.43            | 19.4                |
| 20              | 64QAM      | 1       | 99        | 18.44           | 18.43              | 18.47            |                     |
| 20              | 64QAM      | 50      | 0         | 18.38           | 18.39              | 18.32            |                     |
| 20              | 64QAM      | 50      | 24        | 18.42           | 18.46              | 18.33            | 19.4                |
| 20              | 64QAM      | 50      | 50        | 18.36           | 18.39              | 18.37            |                     |
| 20              | 64QAM      | 100     | 0         | 18.39           | 18.44              | 18.31            |                     |
| Channel         |            |         |           | 26115           | 26340              | 26615            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5          | 1880               | 1907.5           |                     |
| 15              | QPSK       | 1       | 0         | 18.30           | 18.22              | 18.20            | 19.4                |
| 15              | QPSK       | 1       | 37        | 18.24           | 18.25              | 18.21            |                     |
| 15              | QPSK       | 1       | 74        | 18.22           | 18.23              | 18.21            |                     |
| 15              | QPSK       | 36      | 0         | 18.29           | 18.25              | 18.25            | 19.4                |
| 15              | QPSK       | 36      | 20        | 18.30           | 18.39              | 18.28            |                     |
| 15              | QPSK       | 36      | 39        | 18.28           | 18.33              | 18.28            |                     |
| 15              | QPSK       | 75      | 0         | 18.31           | 18.36              | 18.28            | 19.4                |
| 15              | 16QAM      | 1       | 0         | 18.64           | 18.63              | 18.55            |                     |
| 15              | 16QAM      | 1       | 37        | 18.57           | 18.58              | 18.52            |                     |
| 15              | 16QAM      | 1       | 74        | 18.37           | 18.45              | 18.43            | 19.4                |
| 15              | 16QAM      | 36      | 0         | 18.32           | 18.31              | 18.27            |                     |
| 15              | 16QAM      | 36      | 20        | 18.34           | 18.43              | 18.31            |                     |
| 15              | 16QAM      | 36      | 39        | 18.32           | 18.41              | 18.29            | 19.4                |
| 15              | 16QAM      | 75      | 0         | 18.39           | 18.31              | 18.32            |                     |
| 15              | 64QAM      | 1       | 0         | 18.50           | 18.44              | 18.45            |                     |
| 15              | 64QAM      | 1       | 37        | 18.39           | 18.50              | 18.34            | 19.4                |
| 15              | 64QAM      | 1       | 74        | 18.42           | 18.40              | 18.44            |                     |
| 15              | 64QAM      | 36      | 0         | 18.31           | 18.29              | 18.22            |                     |
| 15              | 64QAM      | 36      | 20        | 18.33           | 18.45              | 18.24            | 19.4                |
| 15              | 64QAM      | 36      | 39        | 18.33           | 18.37              | 18.37            |                     |
| 15              | 64QAM      | 75      | 0         | 18.30           | 18.43              | 18.25            |                     |
| Channel         |            |         |           | 26090           | 26340              | 26640            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855            | 1880               | 1910             |                     |
| 10              | QPSK       | 1       | 0         | 18.23           | 18.27              | 18.22            | 19.4                |
| 10              | QPSK       | 1       | 25        | 18.21           | 18.25              | 18.21            |                     |
| 10              | QPSK       | 1       | 49        | 18.24           | 18.23              | 18.23            |                     |
| 10              | QPSK       | 25      | 0         | 18.31           | 18.27              | 18.24            | 19.4                |
| 10              | QPSK       | 25      | 12        | 18.30           | 18.36              | 18.26            |                     |
| 10              | QPSK       | 25      | 25        | 18.23           | 18.37              | 18.27            |                     |
| 10              | QPSK       | 50      | 0         | 18.34           | 18.37              | 18.26            | 19.4                |
| 10              | 16QAM      | 1       | 0         | 18.63           | 18.53              | 18.52            |                     |
| 10              | 16QAM      | 1       | 25        | 18.50           | 18.52              | 18.52            |                     |
| 10              | 16QAM      | 1       | 49        | 18.36           | 18.50              | 18.43            | 19.4                |
| 10              | 16QAM      | 25      | 0         | 18.33           | 18.35              | 18.27            |                     |
| 10              | 16QAM      | 25      | 12        | 18.40           | 18.44              | 18.21            |                     |
| 10              | 16QAM      | 25      | 25        | 18.34           | 18.34              | 18.34            | 19.4                |
| 10              | 16QAM      | 50      | 0         | 18.29           | 18.31              | 18.26            |                     |
| 10              | 64QAM      | 1       | 0         | 18.53           | 18.40              | 18.45            |                     |
| 10              | 64QAM      | 1       | 25        | 18.48           | 18.41              | 18.41            | 19.4                |
| 10              | 64QAM      | 1       | 49        | 18.34           | 18.33              | 18.36            |                     |
| 10              | 64QAM      | 25      | 0         | 18.31           | 18.34              | 18.24            |                     |
| 10              | 64QAM      | 25      | 12        | 18.40           | 18.45              | 18.32            | 19.4                |
| 10              | 64QAM      | 25      | 25        | 18.28           | 18.32              | 18.28            |                     |
| 10              | 64QAM      | 50      | 0         | 18.34           | 18.42              | 18.27            |                     |
| Channel         |            |         |           | 26065           | 26340              | 26665            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5          | 1880               | 1912.5           |                     |
| 5               | QPSK       | 1       | 0         | 18.29           | 18.31              | 18.22            | 19.4                |
| 5               | QPSK       | 1       | 12        | 18.25           | 18.20              | 18.23            |                     |
| 5               | QPSK       | 1       | 24        | 18.24           | 18.22              | 18.24            |                     |
| 5               | QPSK       | 12      | 0         | 18.32           | 18.25              | 18.23            | 19.4                |
| 5               | QPSK       | 12      | 7         | 18.30           | 18.37              | 18.25            |                     |
| 5               | QPSK       | 12      | 13        | 18.24           | 18.29              | 18.23            |                     |
| 5               | QPSK       | 25      | 0         | 18.39           | 18.36              | 18.21            | 19.4                |
| 5               | 16QAM      | 1       | 0         | 18.57           | 18.56              | 18.51            |                     |
| 5               | 16QAM      | 1       | 12        | 18.48           | 18.58              | 18.45            |                     |
| 5               | 16QAM      | 1       | 24        | 18.37           | 18.55              | 18.44            | 19.4                |
| 5               | 16QAM      | 12      | 0         | 18.30           | 18.39              | 18.26            |                     |
| 5               | 16QAM      | 12      | 7         | 18.32           | 18.43              | 18.24            |                     |
| 5               | 16QAM      | 12      | 13        | 18.29           | 18.34              | 18.28            | 19.4                |
| 5               | 16QAM      | 25      | 0         | 18.36           | 18.33              | 18.24            |                     |
| 5               | 64QAM      | 1       | 0         | 18.55           | 18.47              | 18.45            |                     |
| 5               | 64QAM      | 1       | 12        | 18.42           | 18.42              | 18.38            | 19.4                |
| 5               | 64QAM      | 1       | 24        | 18.41           | 18.40              | 18.43            |                     |
| 5               | 64QAM      | 12      | 0         | 18.30           | 18.33              | 18.28            |                     |
| 5               | 64QAM      | 12      | 7         | 18.41           | 18.39              | 18.26            | 19.4                |
| 5               | 64QAM      | 12      | 13        | 18.34           | 18.36              | 18.31            |                     |
| 5               | 64QAM      | 25      | 0         | 18.38           | 18.43              | 18.25            |                     |
| Channel         |            |         |           | 26055           | 26340              | 26675            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1851.5          | 1880               | 1913.5           |                     |
| 3               | QPSK       | 1       | 0         | 18.22           | 18.24              | 18.24            | 19.4                |
| 3               | QPSK       | 1       | 8         | 18.23           | 18.21              | 18.20            |                     |
| 3               | QPSK       | 1       | 14        | 18.21           | 18.22              | 18.21            |                     |
| 3               | QPSK       | 8       | 0         | 18.35           | 18.28              | 18.28            | 19.4                |
| 3               | QPSK       | 8       | 4         | 18.30           | 18.36              | 18.33            |                     |
| 3               | QPSK       | 8       | 7         | 18.29           | 18.35              | 18.33            |                     |
| 3               | QPSK       | 15      | 0         | 18.35           | 18.40              | 18.26            | 19.4                |
| 3               | 16QAM      | 1       | 0         | 18.59           | 18.53              | 18.61            |                     |
| 3               | 16QAM      | 1       | 8         | 18.52           | 18.53              | 18.50            |                     |
| 3               | 16QAM      | 1       | 14        | 18.36           | 18.51              | 18.39            | 19.4                |
| 3               | 16QAM      | 8       | 0         | 18.32           | 18.34              | 18.32            |                     |
| 3               | 16QAM      | 8       | 4         | 18.31           | 18.43              | 18.29            |                     |
| 3               | 16QAM      | 8       | 7         | 18.31           | 18.32              | 18.28            | 19.4                |
| 3               | 16QAM      | 15      | 0         | 18.34           | 18.35              | 18.31            |                     |
| 3               | 64QAM      | 1       | 0         | 18.52           | 18.44              | 18.45            |                     |
| 3               | 64QAM      | 1       | 8         | 18.45           | 18.50              | 18.33            | 19.4                |
| 3               | 64QAM      | 1       | 14        | 18.41           | 18.37              | 18.47            |                     |
| 3               | 64QAM      | 8       | 0         | 18.36           | 18.30              | 18.31            |                     |
| 3               | 64QAM      | 8       | 4         | 18.34           | 18.42              | 18.32            | 19.4                |
| 3               | 64QAM      | 8       | 7         | 18.32           | 18.35              | 18.37            |                     |
| 3               | 64QAM      | 15      | 0         | 18.33           | 18.41              | 18.27            |                     |
| Channel         |            |         |           | 26047           | 26340              | 26683            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1850.7          | 1880               | 1914.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 18.30           | 18.26              | 18.24            | 19.4                |
| 1.4             | QPSK       | 1       | 3         | 18.23           | 18.25              | 18.21            |                     |
| 1.4             | QPSK       | 1       | 5         | 18.24           | 18.25              | 18.22            |                     |
| 1.4             | QPSK       | 3       | 0         | 18.25           | 18.32              | 18.23            | 19.4                |
| 1.4             | QPSK       | 3       | 1         | 18.38           | 18.33              | 18.35            |                     |
| 1.4             | QPSK       | 3       | 3         | 18.32           | 18.28              | 18.33            |                     |
| 1.4             | QPSK       | 6       | 0         | 18.37           | 18.42              | 18.24            | 19.4                |
| 1.4             | 16QAM      | 1       | 0         | 18.55           | 18.55              | 18.56            |                     |
| 1.4             | 16QAM      | 1       | 3         | 18.49           | 18.57              | 18.55            |                     |
| 1.4             | 16QAM      | 1       | 5         | 18.44           | 18.48              | 18.42            | 19.4                |
| 1.4             | 16QAM      | 3       | 0         | 18.28           | 18.30              | 18.28            |                     |
| 1.4             | 16QAM      | 3       | 1         | 18.35           | 18.45              | 18.28            |                     |
| 1.4             | 16QAM      | 3       | 3         | 18.34           | 18.36              | 18.29            | 19.4                |
| 1.4             | 16QAM      | 6       | 0         | 18.39           | 18.34              | 18.22            |                     |
| 1.4             | 64QAM      | 1       | 0         | 18.54           | 18.41              | 18.40            |                     |
| 1.4             | 64QAM      | 1       | 3         | 18.45           | 18.46              | 18.40            | 19.4                |
| 1.4             | 64QAM      | 1       | 5         | 18.42           | 18.38              | 18.45            |                     |
| 1.4             | 64QAM      | 3       | 0         | 18.37           | 18.28              | 18.30            |                     |
| 1.4             | 64QAM      | 3       | 1         | 18.33           | 18.36              | 18.33            | 19.4                |
| 1.4             | 64QAM      | 3       | 3         | 18.29           | 18.35              | 18.34            |                     |
| 1.4             | 64QAM      | 6       | 0         | 18.30           | 18.40              | 18.21            |                     |





| Band 26         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26745           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 831.5           | 831.5              | 841.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.45           | 24.40              | 24.62            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.34           | 24.39              | 24.41            |                     |
| 15              | QPSK       | 1       | 74        | 24.35           | 24.39              | 24.31            |                     |
| 15              | QPSK       | 36      | 0         | 23.51           | 23.51              | 23.54            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.52           | 23.49              | 23.50            |                     |
| 15              | QPSK       | 36      | 39        | 23.50           | 23.51              | 23.49            |                     |
| 15              | QPSK       | 75      | 0         | 23.54           | 23.48              | 23.52            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.79           | 23.73              | 23.79            |                     |
| 15              | 16QAM      | 1       | 37        | 23.67           | 23.74              | 23.74            |                     |
| 15              | 16QAM      | 1       | 74        | 23.64           | 23.68              | 23.59            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.51           | 22.54              | 22.58            |                     |
| 15              | 16QAM      | 36      | 20        | 22.53           | 22.51              | 22.50            |                     |
| 15              | 16QAM      | 36      | 39        | 22.50           | 22.53              | 22.54            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.54           | 22.51              | 22.55            |                     |
| 15              | 64QAM      | 1       | 0         | 22.48           | 22.58              | 22.61            | 23.7                |
| 15              | 64QAM      | 1       | 37        | 22.43           | 22.68              | 22.68            |                     |
| 15              | 64QAM      | 1       | 74        | 22.57           | 22.61              | 21.80            |                     |
| 15              | 64QAM      | 36      | 0         | 21.21           | 21.58              | 21.60            | 22.7                |
| 15              | 64QAM      | 36      | 20        | 21.40           | 21.53              | 21.54            |                     |
| 15              | 64QAM      | 36      | 39        | 21.54           | 21.58              | 21.28            |                     |
| 15              | 64QAM      | 75      | 0         | 21.53           | 21.51              | 21.47            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26740           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 819             | 831.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.56           | 24.50              | 24.50            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.44           | 24.47              | 24.45            |                     |
| 10              | QPSK       | 1       | 49        | 24.46           | 24.49              | 24.37            |                     |
| 10              | QPSK       | 25      | 0         | 23.64           | 23.56              | 23.57            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.58           | 23.54              | 23.57            |                     |
| 10              | QPSK       | 25      | 25        | 23.53           | 23.57              | 23.49            |                     |
| 10              | QPSK       | 50      | 0         | 23.57           | 23.53              | 23.49            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.92           | 23.87              | 23.87            |                     |
| 10              | 16QAM      | 1       | 25        | 23.85           | 23.87              | 23.86            |                     |
| 10              | 16QAM      | 1       | 49        | 23.86           | 23.90              | 23.75            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.62           | 22.57              | 22.57            |                     |
| 10              | 16QAM      | 25      | 12        | 22.60           | 22.55              | 22.57            |                     |
| 10              | 16QAM      | 25      | 25        | 22.53           | 22.58              | 22.53            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.58           | 22.54              | 22.54            |                     |
| 10              | 64QAM      | 1       | 0         | 22.49           | 22.73              | 22.75            |                     |
| 10              | 64QAM      | 1       | 25        | 22.33           | 22.80              | 22.64            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.74           | 22.81              | 21.98            |                     |
| 10              | 64QAM      | 25      | 0         | 21.24           | 21.61              | 21.61            |                     |
| 10              | 64QAM      | 25      | 12        | 21.16           | 21.61              | 21.57            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.31           | 21.58              | 20.89            |                     |
| 10              | 64QAM      | 50      | 0         | 21.25           | 21.57              | 21.38            |                     |
| Channel         |            |         |           | 26715           | 26865              | 27015            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 816.5           | 831.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.61           | 24.51              | 24.54            |                     |
| 5               | QPSK       | 1       | 12        | 24.56           | 24.55              | 24.17            | 25.7                |
| 5               | QPSK       | 1       | 24        | 24.46           | 24.53              | 24.41            |                     |
| 5               | QPSK       | 12      | 0         | 23.64           | 23.59              | 23.60            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.63           | 23.63              | 23.33            |                     |
| 5               | QPSK       | 12      | 13        | 23.58           | 23.56              | 23.38            |                     |
| 5               | QPSK       | 25      | 0         | 23.64           | 23.54              | 23.39            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.95           | 23.85              | 23.86            |                     |
| 5               | 16QAM      | 1       | 12        | 23.84           | 23.87              | 23.49            |                     |
| 5               | 16QAM      | 1       | 24        | 23.77           | 23.88              | 23.69            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.71           | 22.85              | 22.81            |                     |
| 5               | 16QAM      | 12      | 7         | 22.67           | 22.64              | 22.48            |                     |
| 5               | 16QAM      | 12      | 13        | 22.55           | 22.59              | 22.45            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.61           | 22.56              | 22.57            |                     |
| 5               | 64QAM      | 1       | 0         | 22.36           | 22.77              | 22.28            |                     |
| 5               | 64QAM      | 1       | 12        | 22.31           | 22.76              | 21.70            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.14           | 22.79              | 21.71            |                     |
| 5               | 64QAM      | 12      | 0         | 21.36           | 21.70              | 20.92            |                     |
| 5               | 64QAM      | 12      | 7         | 21.29           | 21.69              | 20.95            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.16           | 21.65              | 20.83            |                     |
| 5               | 64QAM      | 25      | 0         | 21.20           | 21.58              | 20.73            |                     |
| Channel         |            |         |           | 26705           | 26865              | 27025            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 815.5           | 831.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.59           | 24.50              | 24.25            |                     |
| 3               | QPSK       | 1       | 8         | 24.60           | 24.57              | 24.26            | 25.7                |
| 3               | QPSK       | 1       | 14        | 24.46           | 24.50              | 24.37            |                     |
| 3               | QPSK       | 8       | 0         | 23.69           | 23.57              | 23.20            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.68           | 23.63              | 23.32            |                     |
| 3               | QPSK       | 8       | 7         | 23.61           | 23.55              | 23.49            |                     |
| 3               | QPSK       | 15      | 0         | 23.66           | 23.58              | 23.29            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.93           | 23.83              | 23.53            |                     |
| 3               | 16QAM      | 1       | 8         | 23.92           | 23.91              | 23.53            |                     |
| 3               | 16QAM      | 1       | 14        | 23.81           | 23.90              | 23.67            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.74           | 22.63              | 22.36            |                     |
| 3               | 16QAM      | 8       | 4         | 22.75           | 22.67              | 22.45            |                     |
| 3               | 16QAM      | 8       | 7         | 22.65           | 22.66              | 22.54            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.64           | 22.59              | 22.44            |                     |
| 3               | 64QAM      | 1       | 0         | 22.41           | 22.74              | 21.71            |                     |
| 3               | 64QAM      | 1       | 8         | 22.49           | 22.84              | 21.84            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.30           | 22.80              | 21.76            |                     |
| 3               | 64QAM      | 8       | 0         | 21.40           | 21.65              | 20.75            |                     |
| 3               | 64QAM      | 8       | 4         | 21.44           | 21.72              | 20.79            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.37           | 21.63              | 20.72            |                     |
| 3               | 64QAM      | 15      | 0         | 21.36           | 21.60              | 20.82            |                     |
| Channel         |            |         |           | 26697           | 26865              | 27033            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 814.7           | 831.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.54           | 24.43              | 24.20            |                     |
| 1.4             | QPSK       | 1       | 3         | 24.56           | 24.54              | 24.39            | 25.7                |
| 1.4             | QPSK       | 1       | 5         | 24.45           | 24.41              | 24.28            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.56           | 24.43              | 24.39            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.58           | 24.46              | 24.40            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.53           | 24.46              | 24.36            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.80           | 23.53              | 23.42            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.86           | 23.73              | 23.57            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.90           | 23.90              | 23.76            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.79           | 23.75              | 23.66            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.62           | 23.52              | 23.44            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.67           | 23.57              | 23.51            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.58           | 23.54              | 23.43            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.66           | 22.58              | 22.52            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.39           | 22.67              | 21.78            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.45           | 22.75              | 21.75            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.41           | 22.65              | 21.74            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.39           | 22.66              | 21.80            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.46           | 22.69              | 21.71            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.43           | 22.64              | 21.82            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.34           | 21.56              | 20.84            |                     |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ann 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 2771.0         |                   |                 |                     |
| Frequency (MHz) |            |         |           | 2310           |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 20.72             |                 | 21.5                |
| 10              | QPSK       | 1       | 25        |                | 20.49             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 20.50             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 20.56             |                 | 21.5                |
| 10              | QPSK       | 25      | 12        |                | 20.61             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 20.70             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 20.59             |                 | 21.5                |
| 10              | 16QAM      | 1       | 0         |                | 20.87             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 20.86             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 20.88             |                 | 21.5                |
| 10              | 16QAM      | 25      | 0         |                | 20.53             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.56             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 20.68             |                 | 21.5                |
| 10              | 16QAM      | 50      | 0         |                | 20.56             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 20.74             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 20.80             |                 | 21.5                |
| 10              | 64QAM      | 1       | 49        |                | 20.77             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.75             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 19.81             |                 | 20.5                |
| 10              | 64QAM      | 25      | 25        |                | 19.89             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 19.78             |                 |                     |
| Channel         |            |         |           | 2788.5         | 2771.0            | 2773.5          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5         | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 20.44          | 20.48             | 20.45           | 21.5                |
| 5               | QPSK       | 1       | 12        | 20.53          | 20.62             | 20.56           |                     |
| 5               | QPSK       | 1       | 24        | 20.60          | 20.60             | 20.52           |                     |
| 5               | QPSK       | 12      | 0         | 20.63          | 20.55             | 20.59           | 21.5                |
| 5               | QPSK       | 12      | 7         | 20.66          | 20.67             | 20.62           |                     |
| 5               | QPSK       | 12      | 13        | 20.65          | 20.66             | 20.59           |                     |
| 5               | QPSK       | 25      | 0         | 20.66          | 20.54             | 20.55           | 21.5                |
| 5               | 16QAM      | 1       | 0         | 20.77          | 20.76             | 20.76           |                     |
| 5               | 16QAM      | 1       | 12        | 20.87          | 20.85             | 20.86           |                     |
| 5               | 16QAM      | 1       | 24        | 20.81          | 20.82             | 20.85           | 21.5                |
| 5               | 16QAM      | 12      | 0         | 20.60          | 20.53             | 20.59           |                     |
| 5               | 16QAM      | 12      | 7         | 20.64          | 20.65             | 20.65           |                     |
| 5               | 16QAM      | 12      | 13        | 20.65          | 20.64             | 20.64           | 21.5                |
| 5               | 16QAM      | 25      | 0         | 20.64          | 20.57             | 20.63           |                     |
| 5               | 64QAM      | 1       | 0         | 20.70          | 20.71             | 20.72           |                     |
| 5               | 64QAM      | 1       | 12        | 20.73          | 20.75             | 20.74           | 21.5                |
| 5               | 64QAM      | 1       | 24        | 20.82          | 20.83             | 20.84           |                     |
| 5               | 64QAM      | 12      | 0         | 19.84          | 19.80             | 19.83           |                     |
| 5               | 64QAM      | 12      | 7         | 19.89          | 19.89             | 19.87           | 20.5                |
| 5               | 64QAM      | 12      | 13        | 19.90          | 19.89             | 19.87           |                     |
| 5               | 64QAM      | 25      | 0         | 19.84          | 19.77             | 19.81           |                     |



| Band 66         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 132072          | 132322             | 132592           |                     |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |
| 20              | QPSK       | 1       | 0         | 18.83           | 18.90              | 18.88            | 20                  |
| 20              | QPSK       | 1       | 49        | 18.80           | 18.82              | 18.86            |                     |
| 20              | QPSK       | 1       | 99        | 18.82           | 18.88              | 18.82            |                     |
| 20              | QPSK       | 50      | 0         | 18.80           | 18.81              | 18.80            | 20                  |
| 20              | QPSK       | 50      | 24        | 18.80           | 18.82              | 18.81            |                     |
| 20              | QPSK       | 50      | 50        | 18.81           | 18.83              | 18.81            |                     |
| 20              | QPSK       | 100     | 0         | 18.86           | 18.84              | 18.94            | 20                  |
| 20              | 16QAM      | 1       | 0         | 19.13           | 19.15              | 19.23            |                     |
| 20              | 16QAM      | 1       | 49        | 19.04           | 19.08              | 19.11            |                     |
| 20              | 16QAM      | 1       | 99        | 19.19           | 19.09              | 19.08            | 20                  |
| 20              | 16QAM      | 50      | 0         | 18.87           | 18.91              | 18.98            |                     |
| 20              | 16QAM      | 50      | 24        | 18.94           | 18.90              | 18.93            |                     |
| 20              | 16QAM      | 50      | 50        | 18.91           | 18.94              | 19.00            | 20                  |
| 20              | 16QAM      | 100     | 0         | 18.90           | 18.88              | 18.96            |                     |
| 20              | 64QAM      | 1       | 0         | 19.04           | 19.05              | 19.03            |                     |
| 20              | 64QAM      | 1       | 49        | 18.92           | 18.91              | 18.87            | 20                  |
| 20              | 64QAM      | 1       | 99        | 19.06           | 19.05              | 18.97            |                     |
| 20              | 64QAM      | 50      | 0         | 18.89           | 18.93              | 19.01            |                     |
| 20              | 64QAM      | 50      | 24        | 18.95           | 18.90              | 18.94            | 20                  |
| 20              | 64QAM      | 50      | 50        | 18.92           | 18.95              | 18.98            |                     |
| 20              | 64QAM      | 100     | 0         | 18.93           | 18.88              | 18.95            |                     |
| Channel         |            |         |           | 132047          | 132322             | 132597           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5          | 1745               | 1772.5           |                     |
| 15              | QPSK       | 1       | 0         | 18.80           | 18.83              | 18.88            | 20                  |
| 15              | QPSK       | 1       | 37        | 18.80           | 18.80              | 18.80            |                     |
| 15              | QPSK       | 1       | 74        | 18.80           | 18.82              | 18.80            |                     |
| 15              | QPSK       | 36      | 0         | 18.81           | 18.90              | 18.94            | 20                  |
| 15              | QPSK       | 36      | 20        | 18.86           | 18.83              | 18.93            |                     |
| 15              | QPSK       | 36      | 39        | 18.88           | 18.91              | 18.99            |                     |
| 15              | QPSK       | 75      | 0         | 18.89           | 18.86              | 18.94            | 20                  |
| 15              | 16QAM      | 1       | 0         | 19.12           | 19.15              | 19.17            |                     |
| 15              | 16QAM      | 1       | 37        | 19.03           | 19.06              | 19.12            |                     |
| 15              | 16QAM      | 1       | 74        | 19.12           | 19.13              | 19.10            | 20                  |
| 15              | 16QAM      | 36      | 0         | 18.86           | 18.90              | 18.95            |                     |
| 15              | 16QAM      | 36      | 20        | 18.92           | 18.86              | 18.90            |                     |
| 15              | 16QAM      | 36      | 39        | 18.90           | 18.95              | 18.98            | 20                  |
| 15              | 16QAM      | 75      | 0         | 18.94           | 18.97              | 18.94            |                     |
| 15              | 64QAM      | 1       | 0         | 19.04           | 18.96              | 19.04            |                     |
| 15              | 64QAM      | 1       | 37        | 18.96           | 19.00              | 19.04            | 20                  |
| 15              | 64QAM      | 1       | 74        | 19.02           | 19.04              | 19.02            |                     |
| 15              | 64QAM      | 36      | 0         | 18.87           | 18.94              | 18.97            |                     |
| 15              | 64QAM      | 36      | 20        | 18.91           | 18.89              | 18.93            | 20                  |
| 15              | 64QAM      | 36      | 39        | 18.91           | 18.97              | 19.00            |                     |
| 15              | 64QAM      | 75      | 0         | 18.92           | 18.89              | 18.93            |                     |
| Channel         |            |         |           | 132022          | 132322             | 132622           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715            | 1745               | 1775             |                     |
| 10              | QPSK       | 1       | 0         | 18.81           | 18.83              | 18.89            | 20                  |
| 10              | QPSK       | 1       | 25        | 18.80           | 18.83              | 18.89            |                     |
| 10              | QPSK       | 1       | 49        | 18.80           | 18.82              | 18.88            |                     |
| 10              | QPSK       | 25      | 0         | 18.82           | 18.86              | 18.92            | 20                  |
| 10              | QPSK       | 25      | 12        | 18.90           | 18.89              | 18.94            |                     |
| 10              | QPSK       | 25      | 25        | 18.86           | 18.95              | 18.98            |                     |
| 10              | QPSK       | 50      | 0         | 18.89           | 18.90              | 18.96            | 20                  |
| 10              | 16QAM      | 1       | 0         | 19.21           | 19.22              | 19.17            |                     |
| 10              | 16QAM      | 1       | 25        | 19.12           | 19.20              | 19.14            |                     |
| 10              | 16QAM      | 1       | 49        | 19.12           | 19.17              | 19.15            | 20                  |
| 10              | 16QAM      | 25      | 0         | 18.91           | 18.99              | 18.96            |                     |
| 10              | 16QAM      | 25      | 12        | 18.94           | 18.91              | 18.99            |                     |
| 10              | 16QAM      | 25      | 25        | 18.89           | 18.96              | 19.00            | 20                  |
| 10              | 16QAM      | 50      | 0         | 18.92           | 18.89              | 18.95            |                     |
| 10              | 64QAM      | 1       | 0         | 19.04           | 19.07              | 19.11            |                     |
| 10              | 64QAM      | 1       | 25        | 19.05           | 19.11              | 19.18            | 20                  |
| 10              | 64QAM      | 1       | 49        | 18.99           | 19.09              | 19.20            |                     |
| 10              | 64QAM      | 25      | 0         | 18.92           | 18.92              | 19.00            |                     |
| 10              | 64QAM      | 25      | 12        | 18.95           | 18.93              | 19.03            | 20                  |
| 10              | 64QAM      | 25      | 25        | 18.90           | 18.96              | 19.08            |                     |
| 10              | 64QAM      | 50      | 0         | 18.94           | 18.92              | 19.02            |                     |
| Channel         |            |         |           | 131997          | 132322             | 132647           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5          | 1745               | 1777.5           |                     |
| 5               | QPSK       | 1       | 0         | 18.80           | 18.80              | 18.87            | 20                  |
| 5               | QPSK       | 1       | 12        | 18.87           | 18.80              | 18.95            |                     |
| 5               | QPSK       | 1       | 24        | 18.80           | 18.84              | 18.91            |                     |
| 5               | QPSK       | 12      | 0         | 18.92           | 18.88              | 19.00            | 20                  |
| 5               | QPSK       | 12      | 7         | 18.93           | 18.96              | 19.06            |                     |
| 5               | QPSK       | 12      | 13        | 18.92           | 18.95              | 19.02            |                     |
| 5               | QPSK       | 25      | 0         | 18.91           | 18.87              | 18.99            | 20                  |
| 5               | 16QAM      | 1       | 0         | 19.14           | 19.11              | 19.16            |                     |
| 5               | 16QAM      | 1       | 12        | 19.18           | 19.14              | 19.19            |                     |
| 5               | 16QAM      | 1       | 24        | 19.10           | 19.19              | 19.20            | 20                  |
| 5               | 16QAM      | 12      | 0         | 18.93           | 18.93              | 19.06            |                     |
| 5               | 16QAM      | 12      | 7         | 18.96           | 19.02              | 19.08            |                     |
| 5               | 16QAM      | 12      | 13        | 18.95           | 18.99              | 19.02            | 20                  |
| 5               | 16QAM      | 25      | 0         | 18.92           | 18.92              | 19.03            |                     |
| 5               | 64QAM      | 1       | 0         | 19.10           | 19.04              | 19.14            |                     |
| 5               | 64QAM      | 1       | 12        | 19.11           | 19.11              | 19.12            | 20                  |
| 5               | 64QAM      | 1       | 24        | 19.07           | 19.09              | 19.09            |                     |
| 5               | 64QAM      | 12      | 0         | 18.96           | 18.97              | 19.12            |                     |
| 5               | 64QAM      | 12      | 7         | 18.97           | 19.02              | 19.11            | 20                  |
| 5               | 64QAM      | 12      | 13        | 18.96           | 19.00              | 19.10            |                     |
| 5               | 64QAM      | 25      | 0         | 18.91           | 18.89              | 19.05            |                     |
| Channel         |            |         |           | 131987          | 132322             | 132657           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5          | 1745               | 1778.5           |                     |
| 3               | QPSK       | 1       | 0         | 18.82           | 18.80              | 18.82            | 20                  |
| 3               | QPSK       | 1       | 8         | 18.91           | 18.86              | 18.86            |                     |
| 3               | QPSK       | 1       | 14        | 18.86           | 18.80              | 18.84            |                     |
| 3               | QPSK       | 8       | 0         | 18.89           | 18.83              | 18.82            | 20                  |
| 3               | QPSK       | 8       | 4         | 18.86           | 18.90              | 18.93            |                     |
| 3               | QPSK       | 8       | 7         | 18.93           | 18.89              | 18.90            |                     |
| 3               | QPSK       | 15      | 0         | 18.91           | 18.81              | 18.91            | 20                  |
| 3               | 16QAM      | 1       | 0         | 19.07           | 19.06              | 19.16            |                     |
| 3               | 16QAM      | 1       | 8         | 19.15           | 19.11              | 19.16            |                     |
| 3               | 16QAM      | 1       | 14        | 19.15           | 19.09              | 19.13            | 20                  |
| 3               | 16QAM      | 8       | 0         | 18.90           | 18.85              | 18.96            |                     |
| 3               | 16QAM      | 8       | 4         | 18.99           | 18.94              | 18.98            |                     |
| 3               | 16QAM      | 8       | 7         | 18.99           | 18.92              | 18.93            | 20                  |
| 3               | 16QAM      | 15      | 0         | 18.96           | 18.83              | 18.93            |                     |
| 3               | 64QAM      | 1       | 0         | 19.05           | 18.97              | 19.08            |                     |
| 3               | 64QAM      | 1       | 8         | 19.15           | 19.13              | 19.09            | 20                  |
| 3               | 64QAM      | 1       | 14        | 19.07           | 19.06              | 19.00            |                     |
| 3               | 64QAM      | 8       | 0         | 18.97           | 18.89              | 18.96            |                     |
| 3               | 64QAM      | 8       | 4         | 19.04           | 18.99              | 19.01            | 20                  |
| 3               | 64QAM      | 8       | 7         | 19.00           | 18.95              | 18.97            |                     |
| 3               | 64QAM      | 15      | 0         | 18.97           | 18.86              | 18.95            |                     |
| Channel         |            |         |           | 131979          | 132322             | 132655           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7          | 1745               | 1779.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 18.81           | 18.87              | 18.91            | 20                  |
| 1.4             | QPSK       | 1       | 3         | 18.85           | 18.91              | 18.96            |                     |
| 1.4             | QPSK       | 1       | 5         | 18.80           | 18.83              | 18.89            |                     |
| 1.4             | QPSK       | 3       | 0         | 18.84           | 18.90              | 18.92            | 20                  |
| 1.4             | QPSK       | 3       | 1         | 18.89           | 18.94              | 18.96            |                     |
| 1.4             | QPSK       | 3       | 3         | 18.85           | 18.90              | 18.93            |                     |
| 1.4             | QPSK       | 6       | 0         | 18.91           | 18.96              | 19.00            | 20                  |
| 1.4             | 16QAM      | 1       | 0         | 19.15           | 19.20              | 19.22            |                     |
| 1.4             | 16QAM      | 1       | 3         | 19.22           | 19.08              | 19.11            |                     |
| 1.4             | 16QAM      | 1       | 5         | 19.15           | 19.17              | 19.22            | 20                  |
| 1.4             | 16QAM      | 3       | 0         | 18.94           | 18.97              | 18.99            |                     |
| 1.4             | 16QAM      | 3       | 1         | 19.02           | 19.01              | 19.06            |                     |
| 1.4             | 16QAM      | 3       | 3         | 18.92           | 18.97              | 19.01            | 20                  |
| 1.4             | 16QAM      | 6       | 0         | 18.96           | 19.04              | 19.10            |                     |
| 1.4             | 64QAM      | 1       | 0         | 19.11           | 19.09              | 19.17            |                     |
| 1.4             | 64QAM      | 1       | 3         | 19.14           | 19.15              | 19.22            | 20                  |
| 1.4             | 64QAM      | 1       | 5         | 19.06           | 19.10              | 19.16            |                     |
| 1.4             | 64QAM      | 3       | 0         | 19.03           | 19.06              | 19.15            |                     |
| 1.4             | 64QAM      | 3       | 1         | 19.06           | 19.13              | 19.20            | 20                  |
| 1.4             | 64QAM      | 3       | 3         | 19.02           | 19.07              | 19.14            |                     |
| 1.4             | 64QAM      | 6       | 0         | 18.91           | 18.97              | 19.06            |                     |



| Band 71         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222          | 133332             | 133372           |                     |
| Frequency (MHz) |            |         |           | 673             | 683                | 688              |                     |
| 20              | QPSK       | 1       | 0         | 24.67           | 24.60              | 24.58            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.58           | 24.59              | 24.56            |                     |
| 20              | QPSK       | 1       | 99        | 24.61           | 24.56              | 24.53            |                     |
| 20              | QPSK       | 50      | 0         | 23.69           | 23.68              | 23.64            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.74           | 23.67              | 23.63            |                     |
| 20              | QPSK       | 50      | 50        | 23.75           | 23.69              | 23.68            |                     |
| 20              | QPSK       | 100     | 0         | 23.72           | 23.66              | 23.71            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.99           | 23.90              | 23.92            |                     |
| 20              | 16QAM      | 1       | 49        | 23.94           | 23.93              | 23.91            |                     |
| 20              | 16QAM      | 1       | 99        | 23.97           | 23.91              | 23.93            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.69           | 22.68              | 22.67            |                     |
| 20              | 16QAM      | 50      | 24        | 22.75           | 22.68              | 22.66            |                     |
| 20              | 16QAM      | 50      | 50        | 22.75           | 22.73              | 22.68            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.72           | 22.65              | 22.70            |                     |
| 20              | 64QAM      | 1       | 0         | 21.88           | 22.69              | 22.77            |                     |
| 20              | 64QAM      | 1       | 49        | 22.51           | 22.82              | 22.02            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.87           | 22.68              | 22.85            |                     |
| 20              | 64QAM      | 50      | 0         | 20.78           | 21.69              | 21.35            |                     |
| 20              | 64QAM      | 50      | 24        | 21.19           | 21.42              | 21.50            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.70           | 21.49              | 21.63            |                     |
| 20              | 64QAM      | 100     | 0         | 21.39           | 21.66              | 21.66            |                     |
| Channel         |            |         |           | 133197          | 133297             | 133397           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 670.5           | 680.5              | 690.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.65           | 24.60              | 24.56            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.55           | 24.58              | 24.52            |                     |
| 15              | QPSK       | 1       | 74        | 24.58           | 24.62              | 24.55            |                     |
| 15              | QPSK       | 36      | 0         | 23.67           | 23.69              | 23.61            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.75           | 23.67              | 23.71            |                     |
| 15              | QPSK       | 36      | 39        | 23.65           | 23.71              | 23.65            |                     |
| 15              | QPSK       | 75      | 0         | 23.73           | 23.65              | 23.60            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.04           | 23.93              | 23.89            |                     |
| 15              | 16QAM      | 1       | 37        | 23.69           | 23.98              | 23.91            |                     |
| 15              | 16QAM      | 1       | 74        | 23.91           | 23.91              | 23.90            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.63           | 22.67              | 22.63            |                     |
| 15              | 16QAM      | 36      | 20        | 22.72           | 22.69              | 22.71            |                     |
| 15              | 16QAM      | 36      | 39        | 22.69           | 22.71              | 22.68            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.75           | 22.67              | 22.62            |                     |
| 15              | 64QAM      | 1       | 0         | 21.76           | 22.28              | 22.61            |                     |
| 15              | 64QAM      | 1       | 37        | 21.70           | 22.27              | 22.80            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.85           | 22.43              | 22.62            |                     |
| 15              | 64QAM      | 36      | 0         | 20.76           | 21.71              | 21.42            |                     |
| 15              | 64QAM      | 36      | 20        | 20.88           | 21.68              | 21.75            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.38           | 21.40              | 21.71            |                     |
| 15              | 64QAM      | 75      | 0         | 21.18           | 21.65              | 21.52            |                     |
| Channel         |            |         |           | 133172          | 133272             | 133422           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668             | 678                | 693              |                     |
| 10              | QPSK       | 1       | 0         | 24.57           | 24.56              | 24.57            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.53           | 24.56              | 24.57            |                     |
| 10              | QPSK       | 1       | 49        | 24.62           | 24.64              | 24.53            |                     |
| 10              | QPSK       | 25      | 0         | 23.73           | 23.62              | 23.60            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.69           | 23.75              | 23.62            |                     |
| 10              | QPSK       | 25      | 25        | 23.63           | 23.70              | 23.65            |                     |
| 10              | QPSK       | 50      | 0         | 23.73           | 23.74              | 23.61            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.03           | 23.97              | 23.96            |                     |
| 10              | 16QAM      | 1       | 25        | 23.89           | 23.97              | 23.94            |                     |
| 10              | 16QAM      | 1       | 49        | 23.96           | 24.00              | 23.86            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.59           | 22.65              | 22.60            |                     |
| 10              | 16QAM      | 25      | 12        | 22.52           | 22.74              | 22.63            |                     |
| 10              | 16QAM      | 25      | 25        | 22.54           | 22.71              | 22.65            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.73           | 22.73              | 22.59            |                     |
| 10              | 64QAM      | 1       | 0         | 21.71           | 22.19              | 22.73            |                     |
| 10              | 64QAM      | 1       | 25        | 21.61           | 22.89              | 22.80            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.02           | 22.82              | 22.25            |                     |
| 10              | 64QAM      | 25      | 0         | 20.70           | 21.54              | 21.83            |                     |
| 10              | 64QAM      | 25      | 12        | 20.65           | 21.76              | 21.61            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.65           | 21.68              | 21.37            |                     |
| 10              | 64QAM      | 50      | 0         | 20.70           | 21.56              | 21.58            |                     |
| Channel         |            |         |           | 133147          | 133247             | 133447           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5           | 675.5              | 695.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.33           | 24.63              | 24.62            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.62           | 24.59              | 24.59            |                     |
| 5               | QPSK       | 1       | 24        | 24.57           | 24.62              | 24.51            |                     |
| 5               | QPSK       | 12      | 0         | 23.49           | 23.69              | 23.64            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.63           | 23.70              | 23.68            |                     |
| 5               | QPSK       | 12      | 13        | 23.60           | 23.68              | 23.61            |                     |
| 5               | QPSK       | 25      | 0         | 23.60           | 23.69              | 23.59            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.66           | 23.99              | 23.92            |                     |
| 5               | 16QAM      | 1       | 12        | 23.86           | 23.94              | 23.87            |                     |
| 5               | 16QAM      | 1       | 24        | 23.80           | 23.94              | 23.83            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.42           | 22.74              | 22.69            |                     |
| 5               | 16QAM      | 12      | 7         | 22.60           | 22.75              | 22.70            |                     |
| 5               | 16QAM      | 12      | 13        | 22.61           | 22.70              | 22.63            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.52           | 22.72              | 22.63            |                     |
| 5               | 64QAM      | 1       | 0         | 21.83           | 21.95              | 22.65            |                     |
| 5               | 64QAM      | 1       | 12        | 21.71           | 22.83              | 22.44            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.72           | 22.88              | 21.98            |                     |
| 5               | 64QAM      | 12      | 0         | 20.70           | 21.46              | 21.42            |                     |
| 5               | 64QAM      | 12      | 7         | 20.79           | 21.76              | 21.57            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.60           | 21.72              | 21.36            |                     |
| 5               | 64QAM      | 25      | 0         | 20.77           | 21.50              | 21.21            |                     |



| Band 2          |            |         |           |                |                |                 |                     |  |  |
|-----------------|------------|---------|-----------|----------------|----------------|-----------------|---------------------|--|--|
| Ant 2           |            |         |           |                |                |                 |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Mid Ch./ | Power High Ch./ | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 18700          | 18900          | 19100           |                     |  |  |
| Frequency (MHz) |            |         |           | 18600          | 18800          | 19000           |                     |  |  |
| 20              | QPSK       | 1       | 0         | 24.53          | 24.68          | 24.96           | 25.7                |  |  |
| 20              | QPSK       | 1       | 49        | 24.53          | 24.72          | 24.75           |                     |  |  |
| 20              | QPSK       | 1       | 99        | 24.52          | 24.71          | 24.80           |                     |  |  |
| 20              | QPSK       | 50      | 0         | 23.61          | 23.75          | 23.86           | 24.7                |  |  |
| 20              | QPSK       | 50      | 24        | 23.73          | 23.80          | 23.89           |                     |  |  |
| 20              | QPSK       | 100     | 0         | 23.72          | 23.77          | 23.87           |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 23.88          | 24.03          | 24.14           | 24.7                |  |  |
| 20              | 16QAM      | 1       | 49        | 23.87          | 24.06          | 24.07           |                     |  |  |
| 20              | 16QAM      | 1       | 99        | 23.83          | 24.02          | 24.16           |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 22.64          | 22.77          | 22.88           | 23.7                |  |  |
| 20              | 16QAM      | 50      | 24        | 22.74          | 22.80          | 22.88           |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 22.73          | 22.89          | 22.97           |                     |  |  |
| 20              | 16QAM      | 100     | 0         | 22.72          | 22.75          | 22.89           | 23.7                |  |  |
| 20              | 64QAM      | 1       | 0         | 22.72          | 22.88          | 23.02           |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 22.78          | 22.91          | 22.11           |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 22.68          | 22.94          | 22.63           | 22.7                |  |  |
| 20              | 64QAM      | 50      | 0         | 21.65          | 21.78          | 21.34           |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 21.76          | 21.84          | 21.35           |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 21.60          | 21.91          | 21.81           | 22.7                |  |  |
| 20              | 64QAM      | 100     | 0         | 21.70          | 21.81          | 21.42           |                     |  |  |
| Channel         |            |         |           | 18675          | 18900          | 19125           |                     |  |  |
| Frequency (MHz) |            |         |           | 1857.5         | 18902.5        | 19052.5         |                     |  |  |
| 15              | QPSK       | 1       | 0         | 24.53          | 24.73          | 24.81           | 25.7                |  |  |
| 15              | QPSK       | 1       | 37        | 24.56          | 24.72          | 24.81           |                     |  |  |
| 15              | QPSK       | 1       | 74        | 24.59          | 24.72          | 24.85           |                     |  |  |
| 15              | QPSK       | 36      | 0         | 23.64          | 23.75          | 23.85           | 24.7                |  |  |
| 15              | QPSK       | 36      | 20        | 23.74          | 23.80          | 23.98           |                     |  |  |
| 15              | QPSK       | 36      | 39        | 23.72          | 23.90          | 23.99           |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.71          | 23.79          | 23.91           | 24.7                |  |  |
| 15              | 16QAM      | 1       | 0         | 23.80          | 24.04          | 24.13           |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 23.88          | 24.02          | 24.12           |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 23.89          | 24.05          | 24.19           | 23.7                |  |  |
| 15              | 16QAM      | 36      | 0         | 22.62          | 22.77          | 22.86           |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.71          | 22.80          | 22.96           |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 22.72          | 22.90          | 22.99           | 23.7                |  |  |
| 15              | 16QAM      | 75      | 0         | 22.72          | 22.81          | 22.91           |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 22.74          | 22.87          | 22.97           |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 22.63          | 22.97          | 22.76           | 23.7                |  |  |
| 15              | 64QAM      | 36      | 0         | 21.67          | 21.81          | 21.25           |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 21.77          | 21.85          | 21.57           |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 21.68          | 21.94          | 21.75           | 22.7                |  |  |
| 15              | 64QAM      | 75      | 0         | 21.73          | 21.83          | 21.44           |                     |  |  |
| Channel         |            |         |           | 18950          | 19000          | 19150           |                     |  |  |
| Frequency (MHz) |            |         |           | 1855           | 1880           | 1905            |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.53          | 24.68          | 24.83           | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.54          | 24.73          | 24.84           |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.58          | 24.76          | 24.85           |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.66          | 23.76          | 23.86           | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.72          | 23.81          | 23.91           |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.71          | 23.90          | 24.02           |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.69          | 23.80          | 23.93           | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 23.92          | 24.09          | 24.18           |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 23.93          | 24.12          | 24.27           |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 23.94          | 24.12          | 24.24           | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.84          | 22.75          | 22.85           |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.71          | 22.82          | 22.91           |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.72          | 22.87          | 23.02           | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.69          | 22.80          | 22.92           |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.84          | 22.95          | 22.38           |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.85          | 23.07          | 22.86           | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.84          | 23.07          | 22.84           |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.89          | 21.78          | 21.47           |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.76          | 21.85          | 21.75           | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 21.74          | 21.92          | 21.76           |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.71          | 21.82          | 21.56           |                     |  |  |
| Channel         |            |         |           | 18625          | 18900          | 19175           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1862.5         | 1880           | 1907.5          |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.55          | 24.66          | 24.86           | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.62          | 24.80          | 24.92           |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.60          | 24.81          | 24.95           |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.68          | 23.77          | 23.98           | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.70          | 23.90          | 24.00           |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.68          | 23.90          | 24.03           |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.67          | 23.80          | 23.98           | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 23.86          | 23.97          | 24.26           |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.90          | 24.09          | 24.24           |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 23.94          | 24.12          | 24.28           | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.68          | 22.82          | 23.00           |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.71          | 22.94          | 23.02           |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.72          | 22.88          | 23.03           | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.71          | 22.81          | 23.04           |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.87          | 22.98          | 22.73           |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.80          | 23.03          | 22.88           | 23.7                |  |  |
| 5               | 64QAM      | 1       | 24        | 22.87          | 23.06          | 22.75           |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.73          | 21.85          | 21.81           |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.79          | 21.95          | 21.84           | 22.7                |  |  |
| 5               | 64QAM      | 12      | 13        | 21.75          | 21.82          | 21.72           |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.68          | 21.82          | 21.84           |                     |  |  |
| Channel         |            |         |           | 18615          | 18900          | 19185           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1851.5         | 1880           | 1908.5          |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.55          | 24.69          | 24.88           | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.64          | 24.83          | 24.95           |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.58          | 24.79          | 24.93           |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.67          | 23.80          | 23.97           | 24.7                |  |  |
| 3               | QPSK       | 8       | 4         | 23.70          | 23.90          | 24.01           |                     |  |  |
| 3               | QPSK       | 8       | 7         | 23.64          | 23.87          | 23.99           |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.64          | 23.80          | 23.99           | 24.7                |  |  |
| 3               | 16QAM      | 1       | 0         | 23.83          | 23.99          | 24.18           |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 23.96          | 24.14          | 24.25           |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 23.94          | 24.10          | 24.25           | 23.7                |  |  |
| 3               | 16QAM      | 8       | 0         | 22.72          | 22.86          | 23.05           |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.77          | 22.96          | 23.06           |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.71          | 22.95          | 23.06           | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.69          | 22.82          | 22.99           |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.81          | 23.01          | 22.83           |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.94          | 23.12          | 22.86           | 23.7                |  |  |
| 3               | 64QAM      | 1       | 14        | 22.84          | 23.06          | 22.70           |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 21.73          | 21.83          | 21.74           |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.75          | 21.95          | 21.76           | 22.7                |  |  |
| 3               | 64QAM      | 8       | 7         | 21.71          | 21.93          | 21.68           |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.71          | 21.81          | 21.66           |                     |  |  |
| Channel         |            |         |           | 18607          | 18900          | 19193           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 18507          | 1880           | 1909.3          |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.46          | 24.67          | 24.82           | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.54          | 24.74          | 24.90           |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.47          | 24.69          | 24.84           |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.54          | 24.71          | 24.84           | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.58          | 24.77          | 24.88           |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.52          | 24.73          | 24.85           |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.58          | 23.80          | 23.99           | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.82          | 23.99          | 24.16           |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.87          | 24.03          | 24.23           | 23.7                |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.82          | 24.01          | 24.17           |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.60          | 23.79          | 23.91           |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.66          | 23.85          | 23.97           | 23.7                |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.59          | 23.79          | 23.88           |                     |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.65          | 22.84          | 22.97           |                     |  |  |
| 1.4             | 16QAM      | 6       | 1         | 22.70          | 22.90          | 23.03           | 23.7                |  |  |
| 1.4             | 16QAM      | 1       | 3         | 22.84          | 23.05          | 22.88           |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.77          | 22.96          | 22.58           |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.71          | 22.93          | 22.63           | 23.7                |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.79          | 22.99          | 22.69           |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.74          | 22.94          | 22.56           |                     |  |  |



| Band 4          |            |         |           |                             |                                |                              |                        |  |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|--|--|
| Ant 2           |            |         |           |                             |                                |                              |                        |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch. /<br>20060 | Power<br>Middle Ch. /<br>20175 | Power<br>High Ch. /<br>20300 | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 20060                       | 20175                          | 20300                        |                        |  |  |
| Frequency (MHz) |            |         |           | 1720                        | 1732.5                         | 1745                         |                        |  |  |
| 20              | QPSK       | 1       | 0         | 24.42                       | 24.50                          | 24.45                        | 25.7                   |  |  |
| 20              | QPSK       | 1       | 49        | 24.32                       | 24.32                          | 24.33                        |                        |  |  |
| 20              | QPSK       | 1       | 99        | 24.31                       | 24.35                          | 24.31                        |                        |  |  |
| 20              | QPSK       | 50      | 0         | 23.47                       | 23.50                          | 23.54                        | 24.7                   |  |  |
| 20              | QPSK       | 50      | 24        | 23.51                       | 23.53                          | 23.54                        |                        |  |  |
| 20              | QPSK       | 50      | 50        | 23.46                       | 23.43                          | 23.48                        |                        |  |  |
| 20              | QPSK       | 100     | 0         | 23.50                       | 23.60                          | 23.41                        | 24.7                   |  |  |
| 20              | 16QAM      | 1       | 0         | 23.78                       | 23.83                          | 23.76                        |                        |  |  |
| 20              | 16QAM      | 1       | 49        | 23.66                       | 23.64                          | 23.66                        |                        |  |  |
| 20              | 16QAM      | 1       | 99        | 23.69                       | 23.66                          | 23.60                        | 23.7                   |  |  |
| 20              | 16QAM      | 50      | 0         | 22.49                       | 22.54                          | 22.55                        |                        |  |  |
| 20              | 16QAM      | 50      | 24        | 22.52                       | 22.55                          | 22.53                        |                        |  |  |
| 20              | 16QAM      | 50      | 50        | 22.46                       | 22.45                          | 22.48                        | 23.7                   |  |  |
| 20              | 16QAM      | 100     | 0         | 22.49                       | 22.56                          | 22.42                        |                        |  |  |
| 20              | 64QAM      | 1       | 0         | 22.24                       | 22.68                          | 22.19                        |                        |  |  |
| 20              | 64QAM      | 1       | 49        | 22.53                       | 22.52                          | 22.56                        | 23.7                   |  |  |
| 20              | 64QAM      | 1       | 99        | 22.58                       | 22.03                          | 22.57                        |                        |  |  |
| 20              | 64QAM      | 50      | 0         | 21.50                       | 21.54                          | 21.24                        |                        |  |  |
| 20              | 64QAM      | 50      | 24        | 21.54                       | 21.45                          | 21.56                        | 22.7                   |  |  |
| 20              | 64QAM      | 50      | 50        | 21.47                       | 21.07                          | 21.46                        |                        |  |  |
| 20              | 64QAM      | 100     | 0         | 21.54                       | 21.56                          | 21.48                        |                        |  |  |
| Channel         |            |         |           | 20025                       | 20175                          | 20325                        | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1717.5                      | 1732.5                         | 1747.5                       |                        |  |  |
| 15              | QPSK       | 1       | 0         | 24.44                       | 24.48                          | 24.49                        | 25.7                   |  |  |
| 15              | QPSK       | 1       | 37        | 24.29                       | 24.32                          | 24.34                        |                        |  |  |
| 15              | QPSK       | 1       | 74        | 24.31                       | 24.31                          | 24.30                        |                        |  |  |
| 15              | QPSK       | 36      | 0         | 23.55                       | 23.55                          | 23.51                        | 24.7                   |  |  |
| 15              | QPSK       | 36      | 20        | 23.49                       | 23.52                          | 23.53                        |                        |  |  |
| 15              | QPSK       | 36      | 39        | 23.44                       | 23.46                          | 23.45                        |                        |  |  |
| 15              | QPSK       | 75      | 0         | 23.49                       | 23.54                          | 23.45                        | 24.7                   |  |  |
| 15              | 16QAM      | 1       | 0         | 23.73                       | 23.80                          | 23.81                        |                        |  |  |
| 15              | 16QAM      | 1       | 37        | 23.59                       | 23.63                          | 23.68                        |                        |  |  |
| 15              | 16QAM      | 1       | 74        | 23.63                       | 23.62                          | 23.61                        | 23.7                   |  |  |
| 15              | 16QAM      | 36      | 0         | 22.53                       | 22.50                          | 22.51                        |                        |  |  |
| 15              | 16QAM      | 36      | 20        | 22.47                       | 22.50                          | 22.52                        |                        |  |  |
| 15              | 16QAM      | 36      | 39        | 22.45                       | 22.44                          | 22.45                        | 23.7                   |  |  |
| 15              | 16QAM      | 75      | 0         | 22.49                       | 22.54                          | 22.45                        |                        |  |  |
| 15              | 64QAM      | 1       | 0         | 22.25                       | 22.67                          | 22.48                        |                        |  |  |
| 15              | 64QAM      | 1       | 37        | 22.54                       | 22.34                          | 22.63                        | 23.7                   |  |  |
| 15              | 64QAM      | 1       | 74        | 22.53                       | 22.12                          | 22.56                        |                        |  |  |
| 15              | 64QAM      | 36      | 0         | 21.55                       | 21.58                          | 21.52                        |                        |  |  |
| 15              | 64QAM      | 36      | 20        | 21.46                       | 21.41                          | 21.53                        | 22.7                   |  |  |
| 15              | 64QAM      | 36      | 39        | 21.45                       | 21.06                          | 21.47                        |                        |  |  |
| 15              | 64QAM      | 75      | 0         | 21.49                       | 21.46                          | 21.44                        |                        |  |  |
| Channel         |            |         |           | 20000                       | 20175                          | 20350                        | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1715                        | 1732.5                         | 1750                         |                        |  |  |
| 10              | QPSK       | 1       | 0         | 24.39                       | 24.42                          | 24.45                        | 25.7                   |  |  |
| 10              | QPSK       | 1       | 25        | 24.35                       | 24.42                          | 24.42                        |                        |  |  |
| 10              | QPSK       | 1       | 49        | 24.36                       | 24.38                          | 24.40                        |                        |  |  |
| 10              | QPSK       | 25      | 0         | 23.45                       | 23.47                          | 23.46                        | 24.7                   |  |  |
| 10              | QPSK       | 25      | 12        | 23.50                       | 23.57                          | 23.48                        |                        |  |  |
| 10              | QPSK       | 25      | 25        | 23.52                       | 23.57                          | 23.56                        |                        |  |  |
| 10              | QPSK       | 50      | 0         | 23.53                       | 23.55                          | 23.50                        | 24.7                   |  |  |
| 10              | 16QAM      | 1       | 0         | 23.73                       | 23.79                          | 23.81                        |                        |  |  |
| 10              | 16QAM      | 1       | 25        | 23.73                       | 23.82                          | 23.81                        |                        |  |  |
| 10              | 16QAM      | 1       | 49        | 23.75                       | 23.75                          | 23.81                        | 24.7                   |  |  |
| 10              | 16QAM      | 25      | 0         | 22.47                       | 22.45                          | 22.46                        |                        |  |  |
| 10              | 16QAM      | 25      | 12        | 22.51                       | 22.57                          | 22.52                        |                        |  |  |
| 10              | 16QAM      | 25      | 25        | 22.49                       | 22.54                          | 22.57                        | 23.7                   |  |  |
| 10              | 16QAM      | 50      | 0         | 22.50                       | 22.56                          | 22.48                        |                        |  |  |
| 10              | 64QAM      | 1       | 0         | 22.08                       | 22.64                          | 22.69                        |                        |  |  |
| 10              | 64QAM      | 1       | 25        | 22.65                       | 22.44                          | 22.71                        | 23.7                   |  |  |
| 10              | 64QAM      | 1       | 49        | 22.67                       | 22.01                          | 22.71                        |                        |  |  |
| 10              | 64QAM      | 25      | 0         | 21.44                       | 21.50                          | 21.52                        |                        |  |  |
| 10              | 64QAM      | 25      | 12        | 21.51                       | 21.35                          | 21.52                        | 22.7                   |  |  |
| 10              | 64QAM      | 25      | 25        | 21.51                       | 21.03                          | 21.58                        |                        |  |  |
| 10              | 64QAM      | 50      | 0         | 21.53                       | 21.32                          | 21.54                        |                        |  |  |
| Channel         |            |         |           | 19975                       | 20175                          | 20375                        | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1712.5                      | 1732.5                         | 1752.5                       |                        |  |  |
| 5               | QPSK       | 1       | 0         | 24.37                       | 24.38                          | 24.40                        | 25.7                   |  |  |
| 5               | QPSK       | 1       | 12        | 24.46                       | 24.45                          | 24.48                        |                        |  |  |
| 5               | QPSK       | 1       | 24        | 24.43                       | 24.48                          | 24.46                        |                        |  |  |
| 5               | QPSK       | 12      | 0         | 23.48                       | 23.44                          | 23.53                        | 24.7                   |  |  |
| 5               | QPSK       | 12      | 7         | 23.52                       | 23.54                          | 23.54                        |                        |  |  |
| 5               | QPSK       | 12      | 13        | 23.51                       | 23.52                          | 23.50                        |                        |  |  |
| 5               | QPSK       | 25      | 0         | 23.46                       | 23.53                          | 23.50                        | 24.7                   |  |  |
| 5               | 16QAM      | 1       | 0         | 23.70                       | 23.76                          | 23.79                        |                        |  |  |
| 5               | 16QAM      | 1       | 12        | 23.74                       | 23.72                          | 23.79                        |                        |  |  |
| 5               | 16QAM      | 1       | 24        | 23.77                       | 23.78                          | 23.82                        | 23.7                   |  |  |
| 5               | 16QAM      | 12      | 0         | 22.50                       | 22.46                          | 22.57                        |                        |  |  |
| 5               | 16QAM      | 12      | 7         | 22.53                       | 22.57                          | 22.56                        |                        |  |  |
| 5               | 16QAM      | 12      | 13        | 22.54                       | 22.57                          | 22.55                        | 23.7                   |  |  |
| 5               | 16QAM      | 25      | 0         | 22.51                       | 22.53                          | 22.55                        |                        |  |  |
| 5               | 64QAM      | 1       | 0         | 22.06                       | 22.62                          | 22.67                        |                        |  |  |
| 5               | 64QAM      | 1       | 12        | 22.43                       | 22.33                          | 22.71                        | 23.7                   |  |  |
| 5               | 64QAM      | 1       | 24        | 22.74                       | 22.09                          | 22.71                        |                        |  |  |
| 5               | 64QAM      | 12      | 0         | 21.11                       | 21.51                          | 21.57                        |                        |  |  |
| 5               | 64QAM      | 12      | 7         | 21.40                       | 21.31                          | 21.64                        | 22.7                   |  |  |
| 5               | 64QAM      | 12      | 13        | 21.52                       | 21.06                          | 21.63                        |                        |  |  |
| 5               | 64QAM      | 25      | 0         | 21.35                       | 21.27                          | 21.54                        |                        |  |  |
| Channel         |            |         |           | 19965                       | 20175                          | 20385                        | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1711.5                      | 1732.5                         | 1753.5                       |                        |  |  |
| 3               | QPSK       | 1       | 0         | 24.38                       | 24.38                          | 24.41                        | 25.7                   |  |  |
| 3               | QPSK       | 1       | 8         | 24.46                       | 24.48                          | 24.48                        |                        |  |  |
| 3               | QPSK       | 1       | 14        | 24.40                       | 24.43                          | 24.43                        |                        |  |  |
| 3               | QPSK       | 8       | 0         | 23.46                       | 23.44                          | 23.51                        | 24.7                   |  |  |
| 3               | QPSK       | 8       | 4         | 23.52                       | 23.52                          | 23.52                        |                        |  |  |
| 3               | QPSK       | 8       | 7         | 23.46                       | 23.51                          | 23.51                        |                        |  |  |
| 3               | QPSK       | 15      | 0         | 23.46                       | 23.55                          | 23.50                        | 24.7                   |  |  |
| 3               | 16QAM      | 1       | 0         | 23.70                       | 23.75                          | 23.76                        |                        |  |  |
| 3               | 16QAM      | 1       | 8         | 23.79                       | 23.83                          | 23.81                        |                        |  |  |
| 3               | 16QAM      | 1       | 14        | 23.74                       | 23.75                          | 23.78                        | 23.7                   |  |  |
| 3               | 16QAM      | 8       | 0         | 22.52                       | 22.49                          | 22.56                        |                        |  |  |
| 3               | 16QAM      | 8       | 4         | 22.59                       | 22.62                          | 22.62                        |                        |  |  |
| 3               | 16QAM      | 8       | 7         | 22.58                       | 22.58                          | 22.57                        | 23.7                   |  |  |
| 3               | 16QAM      | 15      | 0         | 22.50                       | 22.56                          | 22.57                        |                        |  |  |
| 3               | 64QAM      | 1       | 0         | 22.01                       | 22.49                          | 22.69                        |                        |  |  |
| 3               | 64QAM      | 1       | 8         | 22.30                       | 22.39                          | 22.75                        | 23.7                   |  |  |
| 3               | 64QAM      | 1       | 14        | 22.40                       | 22.19                          | 22.71                        |                        |  |  |
| 3               | 64QAM      | 8       | 0         | 20.99                       | 21.39                          | 21.60                        |                        |  |  |
| 3               | 64QAM      | 8       | 4         | 21.16                       | 21.32                          | 21.61                        | 22.7                   |  |  |
| 3               | 64QAM      | 8       | 7         | 21.27                       | 21.20                          | 21.58                        |                        |  |  |
| 3               | 64QAM      | 15      | 0         | 21.14                       | 21.29                          | 21.56                        |                        |  |  |
| Channel         |            |         |           | 19957                       | 20175                          | 20393                        | Tune-up<br>limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1710.7                      | 1732.5                         | 1754.3                       |                        |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.31                       | 24.33                          | 24.33                        | 25.7                   |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.37                       | 24.39                          | 24.42                        |                        |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.30                       | 24.35                          | 24.37                        |                        |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.31                       | 24.35                          | 24.41                        | 24.7                   |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.39                       | 24.41                          | 24.43                        |                        |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.35                       | 24.37                          | 24.38                        |                        |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.68                       | 23.65                          | 23.69                        | 24.7                   |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.71                       | 23.72                          | 23.75                        |                        |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.68                       | 23.66                          | 23.68                        |                        |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.43                       | 23.44                          | 23.47                        | 24.7                   |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.49                       | 23.49                          | 23.55                        |                        |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.41                       | 23.45                          | 23.44                        |                        |  |  |
| 1.4             | 16QAM      | 6       | 0         | 23.39                       | 23.42                          | 23.44                        | 24.7                   |  |  |
| 1.4             | 16QAM      | 6       | 1         | 23.38                       | 23.65                          | 23.69                        |                        |  |  |
| 1.4             | 16QAM      | 6       | 3         | 23.37                       | 23.72                          | 23.75                        |                        |  |  |
| 1.4             | 16QAM      | 15      | 0         | 22.46                       | 22.50                          | 22.52                        | 23.7                   |  |  |
| 1.4             | 16QAM      | 15      | 1         | 22.85                       | 22.35                          | 22.63                        |                        |  |  |
| 1.4             | 16QAM      | 15      | 3         | 22.82                       | 22.33                          | 22.60                        |                        |  |  |
| 1.4             | 64QAM      | 1       | 0         | 21.09                       | 22.21                          | 22.63                        | 23.7                   |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.99                       | 22.35                          | 22.67                        |                        |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.17                       | 22.46                          | 22.64                        |                        |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.11                       | 22.27                          | 22.61                        |                        |  |  |



| Band 5          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20450           | 20535              | 20650            |                     |
| Frequency (MHz) |            |         |           | 829             | 836.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.78           | 24.62              | 24.62            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58           | 24.62              | 24.62            |                     |
| 10              | QPSK       | 1       | 49        | 24.58           | 24.62              | 24.26            |                     |
| 10              | QPSK       | 25      | 0         | 23.68           | 23.73              | 23.72            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.75           | 23.74              | 23.72            |                     |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.78              | 23.73            |                     |
| 10              | QPSK       | 50      | 0         | 23.75           | 23.70              | 23.73            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.01           | 24.01              | 23.99            |                     |
| 10              | 16QAM      | 1       | 25        | 23.98           | 24.05              | 24.00            |                     |
| 10              | 16QAM      | 1       | 49        | 24.00           | 24.04              | 23.60            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.74              | 22.71            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.72              | 22.75            |                     |
| 10              | 16QAM      | 25      | 25        | 22.72           | 22.78              | 22.79            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.77           | 22.74              | 22.75            |                     |
| 10              | 64QAM      | 1       | 0         | 22.88           | 22.88              | 22.87            |                     |
| 10              | 64QAM      | 1       | 25        | 22.92           | 22.85              | 22.85            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.89           | 22.48              | 21.77            |                     |
| 10              | 64QAM      | 25      | 0         | 21.67           | 21.78              | 21.76            |                     |
| 10              | 64QAM      | 25      | 12        | 21.80           | 21.77              | 21.68            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.76           | 21.64              | 21.09            |                     |
| 10              | 64QAM      | 50      | 0         | 21.79           | 21.74              | 21.27            |                     |
| Channel         |            |         |           | 20425           | 20525              | 20625            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.5           | 836.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.75           | 24.69              | 24.67            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.65           | 24.72              | 24.40            |                     |
| 5               | QPSK       | 1       | 24        | 24.61           | 24.65              | 24.19            |                     |
| 5               | QPSK       | 12      | 0         | 23.77           | 23.72              | 23.75            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.73           | 23.78              | 23.42            |                     |
| 5               | QPSK       | 12      | 13        | 23.70           | 23.74              | 23.13            |                     |
| 5               | QPSK       | 25      | 0         | 23.74           | 23.70              | 23.60            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.08           | 24.03              | 24.01            |                     |
| 5               | 16QAM      | 1       | 12        | 23.99           | 24.03              | 23.67            |                     |
| 5               | 16QAM      | 1       | 24        | 23.96           | 23.99              | 23.34            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.81           | 22.77              | 22.75            |                     |
| 5               | 16QAM      | 12      | 7         | 22.78           | 22.81              | 22.61            |                     |
| 5               | 16QAM      | 12      | 13        | 22.74           | 22.75              | 22.31            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75           | 22.72              | 22.69            |                     |
| 5               | 64QAM      | 1       | 0         | 22.75           | 22.84              | 22.82            |                     |
| 5               | 64QAM      | 1       | 12        | 22.90           | 22.85              | 21.90            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.89           | 22.62              | 21.71            |                     |
| 5               | 64QAM      | 12      | 0         | 21.73           | 21.80              | 21.31            |                     |
| 5               | 64QAM      | 12      | 7         | 21.80           | 21.79              | 20.75            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.75           | 21.66              | 20.71            |                     |
| 5               | 64QAM      | 25      | 0         | 21.73           | 21.75              | 20.81            |                     |
| Channel         |            |         |           | 20415           | 20525              | 20635            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 825.5           | 836.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.70           | 24.66              | 24.52            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.67           | 24.70              | 24.11            |                     |
| 3               | QPSK       | 1       | 14        | 24.54           | 24.62              | 24.05            |                     |
| 3               | QPSK       | 8       | 0         | 23.76           | 23.73              | 23.36            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.68           | 23.74              | 23.21            |                     |
| 3               | QPSK       | 8       | 7         | 23.67           | 23.72              | 23.15            |                     |
| 3               | QPSK       | 15      | 0         | 23.72           | 23.67              | 23.28            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.01           | 23.96              | 23.87            |                     |
| 3               | 16QAM      | 1       | 8         | 23.99           | 24.02              | 23.50            |                     |
| 3               | 16QAM      | 1       | 14        | 23.89           | 23.92              | 23.42            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.83           | 22.76              | 22.54            |                     |
| 3               | 16QAM      | 8       | 4         | 22.79           | 22.80              | 22.36            |                     |
| 3               | 16QAM      | 8       | 7         | 22.75           | 22.78              | 22.29            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.77           | 22.69              | 22.43            |                     |
| 3               | 64QAM      | 1       | 0         | 22.65           | 22.90              | 21.96            |                     |
| 3               | 64QAM      | 1       | 8         | 22.66           | 22.97              | 21.74            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.64           | 22.82              | 21.71            |                     |
| 3               | 64QAM      | 8       | 0         | 21.61           | 21.75              | 20.73            |                     |
| 3               | 64QAM      | 8       | 4         | 21.69           | 21.82              | 20.72            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.70           | 21.78              | 20.71            |                     |
| 3               | 64QAM      | 15      | 0         | 21.74           | 21.69              | 20.78            |                     |
| Channel         |            |         |           | 20407           | 20525              | 20643            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 824.7           | 836.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.58           | 24.53              | 23.98            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.59           | 24.61              | 24.06            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.51           | 24.53              | 24.06            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.62           | 24.57              | 23.99            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.62           | 24.57              | 24.05            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.60           | 24.58              | 24.12            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.64           | 23.64              | 23.08            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.88           | 23.96              | 23.26            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.93           | 23.95              | 23.39            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.83           | 23.89              | 23.43            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.67           | 23.62              | 23.14            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.71           | 23.66              | 23.17            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.64           | 23.67              | 23.21            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71           | 22.74              | 22.28            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.64           | 22.80              | 21.77            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.66           | 22.88              | 21.78            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.62           | 22.79              | 21.73            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.61           | 22.78              | 21.72            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.66           | 22.79              | 21.77            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.64           | 22.78              | 21.77            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.50           | 21.69              | 20.74            |                     |



| Band 7          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 2           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850           | 21100              | 21350            |                     |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |
| 20              | QPSK       | 1       | 0         | 24.69           | 24.76              | 24.80            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.74           | 24.81              | 24.78            |                     |
| 20              | QPSK       | 1       | 99        | 24.84           | 24.83              | 24.83            |                     |
| 20              | QPSK       | 50      | 0         | 23.80           | 23.87              | 23.89            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.92           | 23.91              | 23.91            |                     |
| 20              | QPSK       | 50      | 50        | 23.94           | 23.92              | 23.92            |                     |
| 20              | QPSK       | 100     | 0         | 23.91           | 23.89              | 23.91            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.01           | 24.09              | 24.15            |                     |
| 20              | 16QAM      | 1       | 49        | 24.12           | 24.17              | 24.15            |                     |
| 20              | 16QAM      | 1       | 99        | 24.15           | 24.21              | 24.14            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.81           | 22.87              | 22.91            |                     |
| 20              | 16QAM      | 50      | 24        | 22.93           | 22.92              | 22.94            |                     |
| 20              | 16QAM      | 50      | 50        | 22.96           | 23.02              | 22.98            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.92           | 22.90              | 22.92            |                     |
| 20              | 64QAM      | 1       | 0         | 22.89           | 22.95              | 22.99            |                     |
| 20              | 64QAM      | 1       | 49        | 22.98           | 23.07              | 22.88            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 23.07           | 23.13              | 22.92            |                     |
| 20              | 64QAM      | 50      | 0         | 21.84           | 21.92              | 21.92            |                     |
| 20              | 64QAM      | 50      | 24        | 21.95           | 21.95              | 21.71            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.98           | 22.04              | 21.58            |                     |
| 20              | 64QAM      | 100     | 0         | 21.94           | 21.92              | 21.71            |                     |
| Channel         |            |         |           | 20825           | 21100              | 21375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5          | 2535               | 2562.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.67           | 24.77              | 24.82            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.72           | 24.81              | 24.81            |                     |
| 15              | QPSK       | 1       | 74        | 24.80           | 24.80              | 24.83            |                     |
| 15              | QPSK       | 36      | 0         | 23.77           | 23.87              | 23.90            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.93           | 23.91              | 23.91            |                     |
| 15              | QPSK       | 36      | 39        | 23.94           | 24.00              | 23.95            |                     |
| 15              | QPSK       | 75      | 0         | 23.88           | 23.91              | 23.88            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.00           | 24.11              | 24.14            |                     |
| 15              | 16QAM      | 1       | 37        | 24.05           | 24.14              | 24.15            |                     |
| 15              | 16QAM      | 1       | 74        | 24.14           | 24.24              | 24.13            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.80           | 22.89              | 22.90            |                     |
| 15              | 16QAM      | 36      | 20        | 22.92           | 22.92              | 22.90            |                     |
| 15              | 16QAM      | 36      | 39        | 22.95           | 23.02              | 22.95            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.91           | 22.92              | 22.89            |                     |
| 15              | 64QAM      | 1       | 0         | 22.89           | 23.01              | 23.01            |                     |
| 15              | 64QAM      | 1       | 37        | 22.99           | 23.08              | 22.38            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 23.01           | 23.14              | 22.68            |                     |
| 15              | 64QAM      | 36      | 0         | 21.85           | 21.94              | 21.72            |                     |
| 15              | 64QAM      | 36      | 20        | 21.93           | 21.93              | 21.52            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.97           | 22.06              | 21.58            |                     |
| 15              | 64QAM      | 75      | 0         | 21.91           | 21.95              | 21.57            |                     |
| Channel         |            |         |           | 20800           | 21100              | 21400            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505            | 2535               | 2565             |                     |
| 10              | QPSK       | 1       | 0         | 24.68           | 24.75              | 24.75            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.64           | 24.74              | 24.73            |                     |
| 10              | QPSK       | 1       | 49        | 24.71           | 24.83              | 24.78            |                     |
| 10              | QPSK       | 25      | 0         | 23.84           | 23.87              | 23.82            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.88           | 23.89              | 23.84            |                     |
| 10              | QPSK       | 25      | 25        | 23.85           | 23.96              | 23.92            |                     |
| 10              | QPSK       | 50      | 0         | 23.88           | 23.91              | 23.83            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.04           | 24.13              | 24.11            |                     |
| 10              | 16QAM      | 1       | 25        | 24.04           | 24.17              | 24.14            |                     |
| 10              | 16QAM      | 1       | 49        | 24.13           | 24.22              | 24.15            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.85           | 22.86              | 22.82            |                     |
| 10              | 16QAM      | 25      | 12        | 22.96           | 22.91              | 22.87            |                     |
| 10              | 16QAM      | 25      | 25        | 22.89           | 22.97              | 22.92            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.87           | 22.89              | 22.84            |                     |
| 10              | 64QAM      | 1       | 0         | 22.97           | 22.99              | 22.66            |                     |
| 10              | 64QAM      | 1       | 25        | 23.00           | 23.09              | 22.74            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 23.01           | 23.14              | 22.89            |                     |
| 10              | 64QAM      | 25      | 0         | 21.88           | 21.89              | 21.50            |                     |
| 10              | 64QAM      | 25      | 12        | 21.92           | 21.93              | 21.82            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.92           | 22.00              | 21.66            |                     |
| 10              | 64QAM      | 50      | 0         | 21.92           | 21.94              | 21.50            |                     |
| Channel         |            |         |           | 20775           | 21100              | 21425            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5          | 2535               | 2567.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.69           | 24.76              | 24.74            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.75           | 24.80              | 24.75            |                     |
| 5               | QPSK       | 1       | 24        | 24.74           | 24.80              | 24.77            |                     |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.88              | 23.88            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.87           | 23.86              | 23.90            |                     |
| 5               | QPSK       | 12      | 13        | 23.84           | 23.96              | 23.88            |                     |
| 5               | QPSK       | 25      | 0         | 23.84           | 23.88              | 23.85            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 24.05           | 24.10              | 24.09            |                     |
| 5               | 16QAM      | 1       | 12        | 24.08           | 24.16              | 24.07            |                     |
| 5               | 16QAM      | 1       | 24        | 24.07           | 24.17              | 24.10            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.88           | 22.91              | 22.93            |                     |
| 5               | 16QAM      | 12      | 7         | 22.88           | 22.93              | 22.89            |                     |
| 5               | 16QAM      | 12      | 13        | 22.90           | 22.97              | 22.89            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.88           | 22.89              | 22.87            |                     |
| 5               | 64QAM      | 1       | 0         | 23.00           | 23.00              | 22.69            |                     |
| 5               | 64QAM      | 1       | 12        | 22.99           | 23.08              | 22.72            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 23.01           | 23.10              | 22.82            |                     |
| 5               | 64QAM      | 12      | 0         | 21.91           | 21.94              | 21.57            |                     |
| 5               | 64QAM      | 12      | 7         | 21.87           | 21.95              | 21.72            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.81           | 22.00              | 21.75            |                     |
| 5               | 64QAM      | 25      | 0         | 21.87           | 21.90              | 21.63            |                     |





| Band 12         |            |         |           |                 |                    |                  |                     |  |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|--|--|
| Ant 0           |            |         |           |                 |                    |                  |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 23060           | 23095              | 23150            |                     |  |  |
| Frequency (MHz) |            |         |           | 704             | 707.5              | 711              |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.64           | 24.61              | 24.63            | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.63           | 24.68              | 24.65            |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.76           | 24.71              | 24.70            |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.74           | 23.78              | 23.77            |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.67           | 23.80              | 23.76            | 24.7                |  |  |
| 10              | QPSK       | 25      | 25        | 23.88           | 23.85              | 23.83            |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.83           | 23.80              | 23.79            |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 24.03           | 23.97              | 23.99            |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.06           | 24.05              | 24.01            | 24.7                |  |  |
| 10              | 16QAM      | 1       | 49        | 24.12           | 24.08              | 24.07            |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.76           | 22.79              | 22.77            |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.62           | 22.80              | 22.78            |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.81           | 22.85              | 22.79            | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.83           | 22.78              | 22.76            |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.91           | 22.84              | 22.87            |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.76           | 22.99              | 22.73            |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 23.06           | 22.96              | 22.95            | 23.7                |  |  |
| 10              | 64QAM      | 25      | 0         | 21.78           | 21.80              | 21.79            |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.88           | 21.83              | 21.81            |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.82           | 21.90              | 21.84            |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.83           | 21.81              | 21.80            | 22.7                |  |  |
| Channel         |            |         |           | 23035           | 23095              | 23155            |                     |  |  |
| Frequency (MHz) |            |         |           | 701.5           | 707.5              | 713.5            |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.70           | 24.72              | 24.67            | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.72           | 24.73              | 24.71            |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.69           | 24.71              | 24.72            |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.83           | 23.79              | 23.78            |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.79           | 23.75              | 23.81            | 24.7                |  |  |
| 5               | QPSK       | 12      | 13        | 23.75           | 23.82              | 23.77            |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.79           | 23.76              | 23.75            |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 24.02           | 24.04              | 23.98            |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 24.03           | 24.01              | 24.02            | 24.7                |  |  |
| 5               | 16QAM      | 1       | 24        | 24.02           | 24.07              | 24.03            |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.85           | 22.83              | 22.80            |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.81           | 22.78              | 22.85            |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.83           | 22.82              | 22.80            | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.81           | 22.82              | 22.75            |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.62           | 22.73              | 22.91            |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.83           | 22.94              | 22.94            |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 22.80           | 22.98              | 22.93            | 23.7                |  |  |
| 5               | 64QAM      | 12      | 0         | 21.81           | 21.89              | 21.87            |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.88           | 21.85              | 21.88            |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.82           | 21.87              | 21.84            |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.83           | 21.79              | 21.79            | 22.7                |  |  |
| Channel         |            |         |           | 23025           | 23095              | 23165            |                     |  |  |
| Frequency (MHz) |            |         |           | 700.5           | 707.5              | 714.5            |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.75           | 24.69              | 24.72            | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.73           | 24.74              | 24.73            |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.65           | 24.71              | 24.67            |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.79           | 23.78              | 23.73            |                     |  |  |
| 3               | QPSK       | 8       | 4         | 23.78           | 23.74              | 23.77            | 24.7                |  |  |
| 3               | QPSK       | 8       | 7         | 23.73           | 23.76              | 23.75            |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.77           | 23.75              | 23.73            |                     |  |  |
| 3               | 16QAM      | 1       | 0         | 24.08           | 24.01              | 24.02            |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 24.06           | 24.08              | 24.08            | 24.7                |  |  |
| 3               | 16QAM      | 1       | 14        | 24.00           | 24.05              | 23.98            |                     |  |  |
| 3               | 16QAM      | 8       | 0         | 22.86           | 22.83              | 22.82            |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.90           | 22.83              | 22.87            |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.84           | 22.84              | 22.83            | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.80           | 22.80              | 22.75            |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 22.67           | 22.90              | 22.95            |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 22.91           | 23.01              | 22.98            |                     |  |  |
| 3               | 64QAM      | 1       | 14        | 22.92           | 22.95              | 22.86            | 23.7                |  |  |
| 3               | 64QAM      | 8       | 0         | 21.82           | 21.81              | 21.81            |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.87           | 21.84              | 21.87            |                     |  |  |
| 3               | 64QAM      | 8       | 7         | 21.82           | 21.85              | 21.81            |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.65           | 21.78              | 21.77            | 22.7                |  |  |
| Channel         |            |         |           | 23017           | 23095              | 23173            |                     |  |  |
| Frequency (MHz) |            |         |           | 699.7           | 707.5              | 715.3            |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.64           | 24.59              | 24.59            | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.68           | 24.67              | 24.64            |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.60           | 24.58              | 24.55            |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.67           | 24.60              | 24.62            |                     |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.70           | 24.64              | 24.68            | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.64           | 24.67              | 24.61            |                     |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.71           | 23.74              | 23.67            |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.99           | 23.93              | 23.96            |                     |  |  |
| 1.4             | 16QAM      | 1       | 3         | 24.02           | 24.02              | 23.98            | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.92           | 23.94              | 23.91            |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.75           | 23.69              | 23.69            |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.81           | 23.75              | 23.75            |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.70           | 23.73              | 23.65            | 23.7                |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.78           | 22.80              | 22.76            |                     |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.73           | 22.89              | 22.85            |                     |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.90           | 22.97              | 22.89            |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.82           | 22.85              | 22.81            | 23.7                |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.68           | 22.81              | 22.82            |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.78           | 22.85              | 22.88            |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.63           | 22.83              | 22.79            |                     |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.72           | 21.75              | 21.71            | 22.7                |  |  |

| Band 13         |            |         |           |               |                  |                |                     |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|
| Ant 0           |            |         |           |               |                  |                |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. | Power Middle Ch. | Power High Ch. | Tune-up limit (dbm) |
| Channel         |            |         |           | 23230         |                  |                | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 782           |                  |                |                     |
| 10              | QPSK       | 1       | 0         |               | 24.23            |                | 25.2                |
| 10              | QPSK       | 1       | 25        |               | 24.22            |                |                     |
| 10              | QPSK       | 1       | 49        |               | 24.35            |                |                     |
| 10              | QPSK       | 25      | 0         |               | 23.30            |                | 24.2                |
| 10              | QPSK       | 25      | 12        |               | 23.33            |                |                     |
| 10              | QPSK       | 25      | 25        |               | 23.34            |                |                     |
| 10              | QPSK       | 50      | 0         |               | 23.35            |                | 24.2                |
| 10              | 16QAM      | 1       | 0         |               | 23.56            |                |                     |
| 10              | 16QAM      | 1       | 25        |               | 23.57            |                |                     |
| 10              | 16QAM      | 1       | 49        |               | 23.54            |                | 23.2                |
| 10              | 16QAM      | 25      | 0         |               | 22.31            |                |                     |
| 10              | 16QAM      | 25      | 12        |               | 22.34            |                |                     |
| 10              | 16QAM      | 25      | 25        |               | 22.38            |                | 23.2                |
| 10              | 16QAM      | 50      | 0         |               | 22.35            |                |                     |
| 10              | 64QAM      | 1       | 0         |               | 22.30            |                |                     |
| 10              | 64QAM      | 1       | 25        |               | 22.52            |                | 22.2                |
| 10              | 64QAM      | 1       | 49        |               | 22.46            |                |                     |
| 10              | 64QAM      | 25      | 0         |               | 21.36            |                |                     |
| 10              | 64QAM      | 25      | 12        |               | 21.38            |                | 22.2                |
| 10              | 64QAM      | 25      | 25        |               | 21.37            |                |                     |
| 10              | 64QAM      | 50      | 0         |               | 21.39            |                |                     |
| Channel         |            |         |           | 23205         | 23230            | 23255          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 779.5         | 782              | 784.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.23         | 24.20            | 24.18          | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.26         | 24.27            | 24.23          |                     |
| 5               | QPSK       | 1       | 24        | 24.30         | 24.23            | 24.34          |                     |
| 5               | QPSK       | 12      | 0         | 23.38         | 23.33            | 23.29          | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.41         | 23.32            | 23.31          |                     |
| 5               | QPSK       | 12      | 13        | 23.38         | 23.35            | 23.29          |                     |
| 5               | QPSK       | 25      | 0         | 23.37         | 23.33            | 23.32          | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.51         | 23.46            | 23.52          |                     |
| 5               | 16QAM      | 1       | 12        | 23.50         | 23.47            | 23.47          |                     |
| 5               | 16QAM      | 1       | 24        | 23.59         | 23.51            | 23.49          | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.43         | 22.35            | 22.36          |                     |
| 5               | 16QAM      | 12      | 7         | 22.42         | 22.33            | 22.35          |                     |
| 5               | 16QAM      | 12      | 13        | 22.40         | 22.37            | 22.37          | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.43         | 22.34            | 22.33          |                     |
| 5               | 64QAM      | 1       | 0         | 22.14         | 22.47            | 22.39          |                     |
| 5               | 64QAM      | 1       | 12        | 22.50         | 22.44            | 22.45          | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.47         | 22.47            | 22.39          |                     |
| 5               | 64QAM      | 12      | 0         | 21.47         | 21.41            | 21.37          |                     |
| 5               | 64QAM      | 12      | 7         | 21.47         | 21.37            | 21.42          | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.44         | 21.41            | 21.36          |                     |
| 5               | 64QAM      | 25      | 0         | 21.41         | 21.37            | 21.34          |                     |

| Band 14         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 0           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dbm) |
| Channel         |            |         |           | 23330          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 793            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.66             |                 | 25.7                |
| 10              | QPSK       | 1       | 25        |                | 24.65             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.67             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.71             |                 | 24.7                |
| 10              | QPSK       | 25      | 12        |                | 23.70             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.73             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.68             |                 | 24.7                |
| 10              | 16QAM      | 1       | 0         |                | 24.08             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 24.08             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.96             |                 | 23.7                |
| 10              | 16QAM      | 25      | 0         |                | 22.68             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.70             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.71             |                 | 23.7                |
| 10              | 16QAM      | 50      | 0         |                | 22.70             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.92             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.66             |                 | 22.7                |
| 10              | 64QAM      | 1       | 49        |                | 22.90             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.71             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.37             |                 | 22.7                |
| 10              | 64QAM      | 25      | 25        |                | 21.38             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.44             |                 |                     |
| Channel         |            |         |           | 23305          | 23330             | 23355           | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 790.5          | 793               | 795.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.62          | 24.61             | 24.59           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.69          | 24.74             | 24.66           |                     |
| 5               | QPSK       | 1       | 24        | 24.64          | 24.62             | 24.54           |                     |
| 5               | QPSK       | 12      | 0         | 23.71          | 23.68             | 23.65           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.76          | 23.70             | 23.65           |                     |
| 5               | QPSK       | 12      | 13        | 23.70          | 23.69             | 23.63           |                     |
| 5               | QPSK       | 25      | 0         | 23.74          | 23.67             | 23.59           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.83          | 23.96             | 23.90           |                     |
| 5               | 16QAM      | 1       | 12        | 24.00          | 23.98             | 23.93           |                     |
| 5               | 16QAM      | 1       | 24        | 23.99          | 23.90             | 23.89           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.79          | 22.71             | 22.65           |                     |
| 5               | 16QAM      | 12      | 7         | 22.77          | 22.71             | 22.68           |                     |
| 5               | 16QAM      | 12      | 13        | 22.72          | 22.74             | 22.70           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75          | 22.71             | 22.62           |                     |
| 5               | 64QAM      | 1       | 0         | 22.89          | 22.60             | 22.19           |                     |
| 5               | 64QAM      | 1       | 12        | 22.82          | 22.09             | 22.17           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.33          | 21.97             | 22.68           |                     |
| 5               | 64QAM      | 12      | 0         | 21.82          | 21.27             | 20.93           |                     |
| 5               | 64QAM      | 12      | 7         | 21.76          | 21.05             | 21.11           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.44          | 20.88             | 21.53           |                     |
| 5               | 64QAM      | 25      | 0         | 21.56          | 21.63             | 21.17           |                     |

| Band 17         |            |         |           |                 |                    |                  |                     |  |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|--|
| Ant 0           |            |         |           |                 |                    |                  |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dbm) |  |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |  |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |  |
| 10              | QPSK       | 1       | 0         | 24.66           | 24.65              | 24.61            | 25.7                |  |
| 10              | QPSK       | 1       | 25        | 24.69           | 24.70              | 24.71            |                     |  |
| 10              | QPSK       | 1       | 49        | 24.75           | 24.80              | 24.72            |                     |  |
| 10              | QPSK       | 25      | 0         | 23.73           | 23.76              | 23.76            | 24.7                |  |
| 10              | QPSK       | 25      | 12        | 23.88           | 23.82              | 23.79            |                     |  |
| 10              | QPSK       | 25      | 25        | 23.88           | 23.88              | 23.88            |                     |  |
| 10              | QPSK       | 50      | 0         | 23.79           | 23.78              | 23.79            | 24.7                |  |
| 10              | 16QAM      | 1       | 0         | 24.00           | 23.99              | 24.01            |                     |  |
| 10              | 16QAM      | 1       | 25        | 24.14           | 24.11              | 24.08            |                     |  |
| 10              | 16QAM      | 1       | 49        | 24.12           | 24.10              | 24.09            | 23.7                |  |
| 10              | 16QAM      | 25      | 0         | 22.74           | 22.74              | 22.73            |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.90           | 22.79              | 22.81            |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.89           | 22.90              | 22.82            | 23.7                |  |
| 10              | 16QAM      | 50      | 0         | 22.80           | 22.80              | 22.77            |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.65           | 22.75              | 22.88            | 23.7                |  |
| 10              | 64QAM      | 1       | 25        | 22.71           | 22.71              | 22.65            |                     |  |
| 10              | 64QAM      | 1       | 49        | 22.97           | 22.93              | 22.76            |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.49           | 21.50              | 21.47            | 22.7                |  |
| 10              | 64QAM      | 25      | 12        | 21.61           | 21.54              | 21.52            |                     |  |
| 10              | 64QAM      | 25      | 25        | 21.65           | 21.78              | 21.84            |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.62           | 21.68              | 21.62            | Tune-up limit (dbm) |  |
| Channel         |            |         |           | 23765           | 23790              | 23825            |                     |  |
| Frequency (MHz) |            |         |           | 706.5           | 710                | 713.5            |                     |  |
| 5               | QPSK       | 1       | 0         | 24.66           | 24.66              | 24.66            | 25.7                |  |
| 5               | QPSK       | 1       | 12        | 24.74           | 24.79              | 24.75            |                     |  |
| 5               | QPSK       | 1       | 24        | 24.79           | 24.79              | 24.78            |                     |  |
| 5               | QPSK       | 12      | 0         | 23.76           | 23.76              | 23.79            | 24.7                |  |
| 5               | QPSK       | 12      | 7         | 23.85           | 23.81              | 23.82            |                     |  |
| 5               | QPSK       | 12      | 13        | 23.83           | 23.86              | 23.83            |                     |  |
| 5               | QPSK       | 25      | 0         | 23.81           | 23.79              | 23.82            | 24.7                |  |
| 5               | 16QAM      | 1       | 0         | 23.99           | 23.98              | 23.99            |                     |  |
| 5               | 16QAM      | 1       | 12        | 24.02           | 24.06              | 24.04            |                     |  |
| 5               | 16QAM      | 1       | 24        | 24.13           | 24.14              | 24.10            | 23.7                |  |
| 5               | 16QAM      | 12      | 0         | 22.79           | 22.83              | 22.81            |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.89           | 22.86              | 22.89            |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.84           | 22.88              | 22.84            | 23.7                |  |
| 5               | 16QAM      | 25      | 0         | 22.65           | 22.85              | 22.87            |                     |  |
| 5               | 64QAM      | 1       | 0         | 22.40           | 22.44              | 22.79            |                     |  |
| 5               | 64QAM      | 1       | 12        | 22.76           | 22.60              | 22.94            | 23.7                |  |
| 5               | 64QAM      | 1       | 24        | 22.59           | 22.57              | 22.67            |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.61           | 21.45              | 21.75            |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.73           | 21.52              | 21.89            | 22.7                |  |
| 5               | 64QAM      | 12      | 13        | 21.65           | 21.58              | 21.88            |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.55           | 21.51              | 21.79            |                     |  |



| Band 25         |            |         |           |                               |                               |                               |                           |                           |  |
|-----------------|------------|---------|-----------|-------------------------------|-------------------------------|-------------------------------|---------------------------|---------------------------|--|
| Ant 2           |            |         |           |                               |                               |                               |                           |                           |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Mid Ch.<br>/ Channel | Power<br>Mid Ch.<br>/ Channel | Power<br>Mid Ch.<br>/ Channel | Tune-up<br>limit<br>(dBm) |                           |  |
| Channel         |            |         |           | 26140                         | 26340                         | 26590                         |                           |                           |  |
| Frequency (MHz) |            |         |           | 1860                          | 1880                          | 1905                          |                           |                           |  |
| 20              | QPSK       | 1       | 0         | 24.65                         | 24.76                         | 24.91                         | 25.7                      |                           |  |
| 20              | QPSK       | 1       | 49        | 24.64                         | 24.72                         | 24.82                         |                           |                           |  |
| 20              | QPSK       | 1       | 99        | 24.61                         | 24.75                         | 24.23                         |                           |                           |  |
| 20              | QPSK       | 50      | 0         | 23.71                         | 23.86                         | 23.94                         | 24.7                      |                           |  |
| 20              | QPSK       | 50      | 24        | 23.80                         | 23.95                         | 24.01                         |                           |                           |  |
| 20              | QPSK       | 50      | 50        | 23.73                         | 23.92                         | 24.00                         |                           |                           |  |
| 20              | QPSK       | 100     | 0         | 23.81                         | 23.94                         | 23.97                         | 24.7                      |                           |  |
| 20              | 16QAM      | 1       | 0         | 23.95                         | 24.08                         | 24.19                         |                           |                           |  |
| 20              | 16QAM      | 1       | 49        | 23.98                         | 24.09                         | 24.15                         |                           |                           |  |
| 20              | 16QAM      | 1       | 99        | 23.89                         | 24.08                         | 23.60                         | 23.7                      |                           |  |
| 20              | 16QAM      | 50      | 0         | 22.72                         | 22.85                         | 22.96                         |                           |                           |  |
| 20              | 16QAM      | 50      | 24        | 22.80                         | 22.96                         | 22.98                         |                           |                           |  |
| 20              | 16QAM      | 50      | 50        | 22.76                         | 22.93                         | 23.05                         | 23.7                      |                           |  |
| 20              | 16QAM      | 100     | 0         | 22.78                         | 22.93                         | 22.94                         |                           |                           |  |
| 20              | 64QAM      | 1       | 0         | 22.86                         | 22.94                         | 22.43                         |                           |                           |  |
| 20              | 64QAM      | 1       | 49        | 22.70                         | 22.91                         | 22.54                         | 23.7                      |                           |  |
| 20              | 64QAM      | 1       | 99        | 22.42                         | 22.97                         | 21.74                         |                           |                           |  |
| 20              | 64QAM      | 50      | 0         | 21.75                         | 21.89                         | 21.33                         |                           |                           |  |
| 20              | 64QAM      | 50      | 24        | 21.66                         | 22.01                         | 21.58                         | 22.7                      |                           |  |
| 20              | 64QAM      | 50      | 50        | 21.43                         | 21.95                         | 21.32                         |                           |                           |  |
| 20              | 64QAM      | 100     | 0         | 21.70                         | 21.95                         | 21.16                         |                           |                           |  |
| Channel         |            |         |           | 26115                         | 26340                         | 26615                         | Tune-up<br>limit<br>(dBm) |                           |  |
| Frequency (MHz) |            |         |           | 1857.5                        | 1880                          | 1907.5                        |                           |                           |  |
| 15              | QPSK       | 1       | 0         | 24.65                         | 24.77                         | 24.86                         | 25.7                      |                           |  |
| 15              | QPSK       | 1       | 37        | 24.65                         | 24.76                         | 24.88                         |                           |                           |  |
| 15              | QPSK       | 1       | 74        | 24.63                         | 24.77                         | 24.32                         |                           |                           |  |
| 15              | QPSK       | 36      | 0         | 23.72                         | 23.86                         | 23.96                         | 24.7                      |                           |  |
| 15              | QPSK       | 36      | 20        | 23.79                         | 23.95                         | 24.07                         |                           |                           |  |
| 15              | QPSK       | 36      | 39        | 23.74                         | 23.89                         | 23.93                         |                           |                           |  |
| 15              | QPSK       | 75      | 0         | 23.77                         | 23.94                         | 23.96                         | 24.7                      |                           |  |
| 15              | 16QAM      | 1       | 0         | 23.93                         | 24.07                         | 24.15                         |                           |                           |  |
| 15              | 16QAM      | 1       | 37        | 23.97                         | 24.09                         | 24.18                         |                           |                           |  |
| 15              | 16QAM      | 1       | 74        | 23.92                         | 24.10                         | 23.69                         | 23.7                      |                           |  |
| 15              | 16QAM      | 36      | 0         | 22.73                         | 22.87                         | 22.98                         |                           |                           |  |
| 15              | 16QAM      | 36      | 20        | 22.78                         | 22.96                         | 23.06                         |                           |                           |  |
| 15              | 16QAM      | 36      | 39        | 22.72                         | 22.90                         | 23.02                         | 23.7                      |                           |  |
| 15              | 16QAM      | 75      | 0         | 22.77                         | 22.94                         | 22.96                         |                           |                           |  |
| 15              | 64QAM      | 1       | 0         | 22.63                         | 22.82                         | 22.34                         |                           |                           |  |
| 15              | 64QAM      | 1       | 74        | 22.87                         | 22.97                         | 21.81                         | 23.7                      |                           |  |
| 15              | 64QAM      | 36      | 0         | 21.77                         | 21.92                         | 21.56                         |                           |                           |  |
| 15              | 64QAM      | 36      | 20        | 21.82                         | 21.98                         | 21.69                         |                           |                           |  |
| 15              | 64QAM      | 36      | 39        | 21.58                         | 21.93                         | 21.28                         | 22.7                      |                           |  |
| 15              | 64QAM      | 75      | 0         | 21.79                         | 21.95                         | 21.27                         |                           |                           |  |
| Channel         |            |         |           | 26090                         | 26340                         | 26640                         |                           | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 1855                          | 1880                          | 1910                          |                           |                           |  |
| 10              | QPSK       | 1       | 0         | 24.65                         | 24.70                         | 24.89                         | 25.7                      |                           |  |
| 10              | QPSK       | 1       | 25        | 24.55                         | 24.70                         | 24.90                         |                           |                           |  |
| 10              | QPSK       | 1       | 49        | 24.60                         | 24.75                         | 24.20                         |                           |                           |  |
| 10              | QPSK       | 25      | 0         | 23.74                         | 23.81                         | 23.94                         | 24.7                      |                           |  |
| 10              | QPSK       | 25      | 12        | 23.79                         | 23.93                         | 24.00                         |                           |                           |  |
| 10              | QPSK       | 25      | 25        | 23.79                         | 23.93                         | 23.85                         |                           |                           |  |
| 10              | QPSK       | 50      | 0         | 23.78                         | 23.93                         | 23.95                         | 24.7                      |                           |  |
| 10              | 16QAM      | 1       | 0         | 23.98                         | 24.12                         | 24.22                         |                           |                           |  |
| 10              | 16QAM      | 1       | 25        | 23.98                         | 24.13                         | 24.27                         |                           |                           |  |
| 10              | 16QAM      | 1       | 49        | 23.98                         | 24.13                         | 23.58                         | 23.7                      |                           |  |
| 10              | 16QAM      | 25      | 0         | 22.76                         | 22.85                         | 22.96                         |                           |                           |  |
| 10              | 16QAM      | 25      | 12        | 22.80                         | 22.95                         | 22.97                         |                           |                           |  |
| 10              | 16QAM      | 25      | 25        | 22.76                         | 22.90                         | 22.84                         | 23.7                      |                           |  |
| 10              | 16QAM      | 50      | 0         | 22.78                         | 22.91                         | 22.97                         |                           |                           |  |
| 10              | 64QAM      | 1       | 0         | 22.91                         | 22.95                         | 22.66                         |                           |                           |  |
| 10              | 64QAM      | 1       | 25        | 22.92                         | 23.05                         | 22.53                         | 23.7                      |                           |  |
| 10              | 64QAM      | 1       | 49        | 22.61                         | 23.07                         | 21.74                         |                           |                           |  |
| 10              | 64QAM      | 25      | 0         | 21.78                         | 21.82                         | 21.82                         |                           |                           |  |
| 10              | 64QAM      | 25      | 12        | 21.84                         | 21.98                         | 21.46                         | 22.7                      |                           |  |
| 10              | 64QAM      | 25      | 25        | 21.82                         | 21.93                         | 21.00                         |                           |                           |  |
| 10              | 64QAM      | 50      | 0         | 21.76                         | 21.94                         | 21.20                         |                           |                           |  |
| Channel         |            |         |           | 26065                         | 26340                         | 26665                         | Tune-up<br>limit<br>(dBm) |                           |  |
| Frequency (MHz) |            |         |           | 1852.5                        | 1880                          | 1912.5                        |                           |                           |  |
| 5               | QPSK       | 1       | 0         | 24.60                         | 24.72                         | 24.90                         | 25.7                      |                           |  |
| 5               | QPSK       | 1       | 12        | 24.65                         | 24.84                         | 24.43                         |                           |                           |  |
| 5               | QPSK       | 1       | 24        | 24.64                         | 24.80                         | 24.08                         |                           |                           |  |
| 5               | QPSK       | 12      | 0         | 23.72                         | 23.83                         | 23.86                         | 24.7                      |                           |  |
| 5               | QPSK       | 12      | 7         | 23.79                         | 23.91                         | 23.61                         |                           |                           |  |
| 5               | QPSK       | 12      | 13        | 23.78                         | 23.94                         | 23.38                         |                           |                           |  |
| 5               | QPSK       | 25      | 0         | 23.74                         | 23.90                         | 23.55                         | 24.7                      |                           |  |
| 5               | 16QAM      | 1       | 0         | 24.03                         | 24.05                         | 24.22                         |                           |                           |  |
| 5               | 16QAM      | 1       | 12        | 23.94                         | 24.12                         | 23.81                         |                           |                           |  |
| 5               | 16QAM      | 1       | 24        | 23.97                         | 24.15                         | 23.46                         | 23.7                      |                           |  |
| 5               | 16QAM      | 12      | 0         | 22.74                         | 22.86                         | 22.99                         |                           |                           |  |
| 5               | 16QAM      | 12      | 7         | 22.81                         | 22.95                         | 22.77                         |                           |                           |  |
| 5               | 16QAM      | 12      | 13        | 22.82                         | 22.98                         | 22.55                         | 23.7                      |                           |  |
| 5               | 16QAM      | 25      | 0         | 22.79                         | 22.90                         | 22.73                         |                           |                           |  |
| 5               | 64QAM      | 1       | 0         | 22.86                         | 23.00                         | 22.35                         |                           |                           |  |
| 5               | 64QAM      | 1       | 12        | 22.84                         | 23.00                         | 21.93                         | 23.7                      |                           |  |
| 5               | 64QAM      | 1       | 24        | 22.86                         | 23.03                         | 21.55                         |                           |                           |  |
| 5               | 64QAM      | 12      | 0         | 21.78                         | 21.92                         | 21.17                         |                           |                           |  |
| 5               | 64QAM      | 12      | 7         | 21.84                         | 21.99                         | 21.00                         | 22.7                      |                           |  |
| 5               | 64QAM      | 12      | 13        | 21.68                         | 22.00                         | 20.74                         |                           |                           |  |
| 5               | 64QAM      | 25      | 0         | 21.81                         | 21.93                         | 20.87                         |                           |                           |  |
| Channel         |            |         |           | 26055                         | 26340                         | 26675                         | Tune-up<br>limit<br>(dBm) |                           |  |
| Frequency (MHz) |            |         |           | 1851.5                        | 1880                          | 1913.5                        |                           |                           |  |
| 3               | QPSK       | 1       | 0         | 24.54                         | 24.63                         | 24.53                         | 25.7                      |                           |  |
| 3               | QPSK       | 1       | 8         | 24.59                         | 24.83                         | 24.34                         |                           |                           |  |
| 3               | QPSK       | 1       | 14        | 24.67                         | 24.83                         | 24.09                         |                           |                           |  |
| 3               | QPSK       | 8       | 0         | 23.69                         | 23.80                         | 23.60                         | 24.7                      |                           |  |
| 3               | QPSK       | 8       | 4         | 23.78                         | 23.90                         | 23.48                         |                           |                           |  |
| 3               | QPSK       | 8       | 7         | 23.75                         | 23.89                         | 23.37                         |                           |                           |  |
| 3               | QPSK       | 15      | 0         | 23.72                         | 23.90                         | 23.43                         | 24.7                      |                           |  |
| 3               | 16QAM      | 1       | 0         | 23.90                         | 23.95                         | 23.83                         |                           |                           |  |
| 3               | 16QAM      | 1       | 8         | 24.00                         | 24.20                         | 23.68                         |                           |                           |  |
| 3               | 16QAM      | 1       | 14        | 23.99                         | 24.16                         | 23.42                         | 23.7                      |                           |  |
| 3               | 16QAM      | 8       | 0         | 22.76                         | 22.89                         | 22.72                         |                           |                           |  |
| 3               | 16QAM      | 8       | 4         | 22.82                         | 22.96                         | 22.61                         |                           |                           |  |
| 3               | 16QAM      | 8       | 7         | 22.81                         | 22.99                         | 22.48                         | 23.7                      |                           |  |
| 3               | 16QAM      | 15      | 0         | 22.79                         | 22.91                         | 22.56                         |                           |                           |  |
| 3               | 64QAM      | 1       | 0         | 22.80                         | 22.87                         | 21.94                         |                           |                           |  |
| 3               | 64QAM      | 1       | 8         | 22.93                         | 23.11                         | 21.80                         | 23.7                      |                           |  |
| 3               | 64QAM      | 1       | 14        | 22.90                         | 23.08                         | 21.57                         |                           |                           |  |
| 3               | 64QAM      | 8       | 0         | 21.76                         | 21.90                         | 20.85                         |                           |                           |  |
| 3               | 64QAM      | 8       | 4         | 21.84                         | 22.00                         | 20.77                         | 22.7                      |                           |  |
| 3               | 64QAM      | 8       | 7         | 21.83                         | 21.99                         | 20.64                         |                           |                           |  |
| 3               | 64QAM      | 15      | 0         | 21.79                         | 21.92                         | 20.73                         |                           |                           |  |
| Channel         |            |         |           | 26047                         | 26340                         | 26683                         | Tune-up<br>limit<br>(dBm) |                           |  |
| Frequency (MHz) |            |         |           | 1850.7                        | 1880                          | 1914.3                        |                           |                           |  |
| 1.4             | QPSK       | 1       | 0         | 24.51                         | 24.66                         | 24.19                         | 25.7                      |                           |  |
| 1.4             | QPSK       | 1       | 3         | 24.62                         | 24.74                         | 24.13                         |                           |                           |  |
| 1.4             | QPSK       | 1       | 5         | 24.59                         | 24.76                         | 24.02                         |                           |                           |  |
| 1.4             | QPSK       | 3       | 0         | 24.56                         | 24.71                         | 24.13                         | 24.7                      |                           |  |
| 1.4             | QPSK       | 3       | 1         | 24.63                         | 24.77                         | 24.17                         |                           |                           |  |
| 1.4             | QPSK       | 3       | 3         | 24.59                         | 24.77                         | 24.04                         |                           |                           |  |
| 1.4             |            |         |           |                               |                               |                               |                           |                           |  |
| 1.4             | 16QAM      | 1       | 0         | 23.80                         | 23.98                         | 23.48                         | 24.7                      |                           |  |
| 1.4             | 16QAM      | 1       | 3         | 23.84                         | 24.12                         | 23.47                         |                           |                           |  |
| 1.4             | 16QAM      | 1       | 5         | 23.94                         | 24.09                         | 23.35                         |                           |                           |  |
| 1.4             | 16QAM      | 3       | 0         | 23.60                         | 23.77                         | 23.31                         | 24.7                      |                           |  |
| 1.4             | 16QAM      | 3       | 1         | 23.70                         | 23.85                         | 23.31                         |                           |                           |  |
| 1.4             | 16QAM      | 3       | 3         | 23.65                         | 23.82                         | 23.22                         |                           |                           |  |
| 1.4             | 16QAM      | 1       | 0         | 22.73                         | 22.86                         | 22.41                         | 23.7                      |                           |  |
| 1.4             | 16QAM      | 1       | 3         | 22.79                         | 22.91                         | 22.50                         |                           |                           |  |
| 1.4             | 16QAM      | 1       | 5         | 22.79                         | 22.99                         | 22.20                         |                           |                           |  |
| 1.4             | 64QAM      | 3       | 0         | 22.72                         | 22.92                         | 21.81                         | 23.7                      |                           |  |
| 1.4             | 64QAM      | 3       | 1         | 22.80                         | 22.97                         | 21.78                         |                           |                           |  |
| 1.4             | 64QAM      | 3       | 3         | 22.86                         | 22.96                         | 21.79                         |                           |                           |  |



| Band 26         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26745           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 831.5           | 831.5              | 841.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.78           | 24.52              | 24.57            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.46           | 24.51              | 24.50            |                     |
| 15              | QPSK       | 1       | 74        | 24.49           | 24.48              | 24.27            |                     |
| 15              | QPSK       | 36      | 0         | 23.67           | 23.65              | 23.65            |                     |
| 15              | QPSK       | 36      | 20        | 23.66           | 23.61              | 23.63            | 24.7                |
| 15              | QPSK       | 36      | 39        | 23.60           | 23.63              | 23.64            |                     |
| 15              | QPSK       | 75      | 0         | 23.68           | 23.60              | 23.62            |                     |
| 15              | 16QAM      | 1       | 0         | 23.93           | 23.86              | 23.88            |                     |
| 15              | 16QAM      | 1       | 37        | 23.82           | 23.86              | 23.85            | 24.7                |
| 15              | 16QAM      | 1       | 74        | 23.81           | 23.83              | 23.62            |                     |
| 15              | 16QAM      | 36      | 0         | 22.63           | 22.66              | 22.67            |                     |
| 15              | 16QAM      | 36      | 20        | 22.65           | 22.61              | 22.60            |                     |
| 15              | 16QAM      | 36      | 39        | 22.59           | 22.65              | 22.62            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.67           | 22.62              | 22.65            |                     |
| 15              | 64QAM      | 1       | 0         | 22.78           | 22.72              | 22.72            |                     |
| 15              | 64QAM      | 1       | 37        | 22.70           | 22.80              | 22.76            |                     |
| 15              | 64QAM      | 1       | 74        | 22.69           | 22.72              | 22.70            | 23.7                |
| 15              | 64QAM      | 36      | 0         | 21.68           | 21.69              | 21.72            |                     |
| 15              | 64QAM      | 36      | 20        | 21.69           | 21.63              | 21.65            |                     |
| 15              | 64QAM      | 36      | 39        | 21.65           | 21.71              | 21.58            |                     |
| 15              | 64QAM      | 75      | 0         | 21.69           | 21.63              | 21.63            | 22.7                |
| Channel         |            |         |           | 26740           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 819             | 831.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.72           | 24.59              | 24.60            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.57           | 24.55              | 24.59            |                     |
| 10              | QPSK       | 1       | 49        | 24.60           | 24.64              | 24.38            |                     |
| 10              | QPSK       | 25      | 0         | 23.74           | 23.66              | 23.68            |                     |
| 10              | QPSK       | 25      | 12        | 23.76           | 23.66              | 23.65            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.65           | 23.68              | 23.67            |                     |
| 10              | QPSK       | 50      | 0         | 23.70           | 23.65              | 23.66            |                     |
| 10              | 16QAM      | 1       | 0         | 24.07           | 23.98              | 23.96            |                     |
| 10              | 16QAM      | 1       | 25        | 23.94           | 24.01              | 23.97            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 23.97           | 24.02              | 23.73            |                     |
| 10              | 16QAM      | 25      | 0         | 22.74           | 22.69              | 22.66            |                     |
| 10              | 16QAM      | 25      | 12        | 22.76           | 22.71              | 22.67            |                     |
| 10              | 16QAM      | 25      | 25        | 22.64           | 22.63              | 22.63            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.72           | 22.66              | 22.63            |                     |
| 10              | 64QAM      | 1       | 0         | 22.84           | 22.78              | 22.88            |                     |
| 10              | 64QAM      | 1       | 25        | 22.90           | 22.93              | 22.93            |                     |
| 10              | 64QAM      | 1       | 49        | 22.89           | 22.91              | 21.83            | 22.7                |
| 10              | 64QAM      | 25      | 0         | 21.80           | 21.71              | 21.72            |                     |
| 10              | 64QAM      | 25      | 12        | 21.76           | 21.69              | 21.72            |                     |
| 10              | 64QAM      | 25      | 25        | 21.68           | 21.70              | 21.21            |                     |
| 10              | 64QAM      | 50      | 0         | 21.72           | 21.65              | 21.50            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26715           | 26865              | 27015            |                     |
| Frequency (MHz) |            |         |           | 816.5           | 831.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.75           | 24.61              | 24.68            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72           | 24.63              | 24.47            |                     |
| 5               | QPSK       | 1       | 24        | 24.56           | 24.64              | 24.43            |                     |
| 5               | QPSK       | 12      | 0         | 23.79           | 23.72              | 23.74            |                     |
| 5               | QPSK       | 12      | 7         | 23.60           | 23.72              | 23.57            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.71           | 23.67              | 23.31            |                     |
| 5               | QPSK       | 25      | 0         | 23.76           | 23.67              | 23.64            |                     |
| 5               | 16QAM      | 1       | 0         | 24.09           | 23.94              | 23.99            |                     |
| 5               | 16QAM      | 1       | 12        | 24.00           | 23.97              | 23.85            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.91           | 24.01              | 23.71            |                     |
| 5               | 16QAM      | 12      | 0         | 22.84           | 22.72              | 22.73            |                     |
| 5               | 16QAM      | 12      | 7         | 22.81           | 22.76              | 22.71            |                     |
| 5               | 16QAM      | 12      | 13        | 22.73           | 22.68              | 22.44            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.78           | 22.66              | 22.72            |                     |
| 5               | 64QAM      | 1       | 0         | 22.69           | 22.90              | 22.83            |                     |
| 5               | 64QAM      | 1       | 12        | 22.90           | 22.88              | 22.03            |                     |
| 5               | 64QAM      | 1       | 24        | 22.61           | 22.86              | 21.86            | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.63           | 21.78              | 21.45            |                     |
| 5               | 64QAM      | 12      | 7         | 21.84           | 21.81              | 21.00            |                     |
| 5               | 64QAM      | 12      | 13        | 21.74           | 21.78              | 20.80            |                     |
| 5               | 64QAM      | 25      | 0         | 21.77           | 21.68              | 20.99            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26705           | 26865              | 27025            |                     |
| Frequency (MHz) |            |         |           | 815.5           | 831.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.72           | 24.62              | 24.62            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.75           | 24.69              | 24.16            |                     |
| 3               | QPSK       | 1       | 14        | 24.63           | 24.66              | 24.26            |                     |
| 3               | QPSK       | 8       | 0         | 23.83           | 23.68              | 23.39            |                     |
| 3               | QPSK       | 8       | 4         | 23.77           | 23.72              | 23.28            | 24.7                |
| 3               | QPSK       | 8       | 7         | 23.74           | 23.70              | 23.29            |                     |
| 3               | QPSK       | 15      | 0         | 23.78           | 23.67              | 23.30            |                     |
| 3               | 16QAM      | 1       | 0         | 24.09           | 23.91              | 23.81            |                     |
| 3               | 16QAM      | 1       | 8         | 24.06           | 24.06              | 23.47            | 24.7                |
| 3               | 16QAM      | 1       | 14        | 23.95           | 23.95              | 23.55            |                     |
| 3               | 16QAM      | 8       | 0         | 22.86           | 22.77              | 22.54            |                     |
| 3               | 16QAM      | 8       | 4         | 22.88           | 22.77              | 22.42            |                     |
| 3               | 16QAM      | 8       | 7         | 22.78           | 22.76              | 22.45            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.78           | 22.70              | 22.47            |                     |
| 3               | 64QAM      | 1       | 0         | 22.72           | 22.63              | 22.00            |                     |
| 3               | 64QAM      | 1       | 8         | 23.03           | 22.95              | 21.88            |                     |
| 3               | 64QAM      | 1       | 14        | 22.86           | 22.90              | 21.83            | 22.7                |
| 3               | 64QAM      | 8       | 0         | 21.79           | 21.74              | 20.85            |                     |
| 3               | 64QAM      | 8       | 4         | 21.88           | 21.81              | 20.77            |                     |
| 3               | 64QAM      | 8       | 7         | 21.61           | 21.72              | 20.92            |                     |
| 3               | 64QAM      | 15      | 0         | 21.81           | 21.67              | 20.86            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26697           | 26865              | 27033            |                     |
| Frequency (MHz) |            |         |           | 814.7           | 831.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.68           | 24.52              | 24.13            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.71           | 24.63              | 24.26            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.61           | 24.55              | 24.29            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59           | 24.55              | 24.17            |                     |
| 1.4             | QPSK       | 3       | 1         | 24.74           | 24.58              | 24.22            | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.67           | 24.55              | 24.37            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.71           | 23.63              | 23.29            |                     |
| 1.4             | 16QAM      | 1       | 0         | 24.01           | 23.86              | 23.45            |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.04           | 23.98              | 23.59            | 24.7                |
| 1.4             | 16QAM      | 1       | 5         | 23.93           | 23.86              | 23.65            |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.75           | 23.65              | 23.27            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.79           | 23.65              | 23.32            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.71           | 23.67              | 23.46            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.82           | 22.75              | 22.46            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.74           | 22.76              | 21.86            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.88           | 22.88              | 21.90            |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.86           | 22.76              | 21.85            | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.76           | 22.73              | 21.85            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.82           | 22.82              | 21.93            |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.84           | 22.79              | 21.86            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.65           | 21.68              | 20.87            | 22.7                |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 2           |            |         |           |                |                   |                 |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dbm) |
| Channel         |            |         |           | 2771.0         |                   |                 |                     |
| Frequency (MHz) |            |         |           | 231.0          |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 23.02             |                 | 23.7                |
| 10              | QPSK       | 1       | 25        |                | 23.01             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 22.92             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 21.96             |                 | 22.7                |
| 10              | QPSK       | 25      | 12        |                | 22.00             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 22.11             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 22.00             |                 | 22.7                |
| 10              | 16QAM      | 1       | 0         |                | 22.30             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 22.28             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 22.31             |                 | 21.7                |
| 10              | 16QAM      | 25      | 0         |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.98             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 21.11             |                 | 21.7                |
| 10              | 16QAM      | 50      | 0         |                | 20.98             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 21.18             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 21.21             |                 | 21.7                |
| 10              | 64QAM      | 1       | 49        |                | 21.22             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.98             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 20.04             |                 | 20.7                |
| 10              | 64QAM      | 25      | 25        |                | 20.13             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 20.02             |                 |                     |
| Channel         |            |         |           | 2788.5         | 2771.0            | 2773.5          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 2307.5         | 231.0             | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 22.88          | 22.88             | 22.88           | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.99          | 23.01             | 22.99           |                     |
| 5               | QPSK       | 1       | 24        | 23.01          | 23.00             | 22.96           |                     |
| 5               | QPSK       | 12      | 0         | 22.02          | 21.96             | 21.97           | 22.7                |
| 5               | QPSK       | 12      | 7         | 22.08          | 22.07             | 22.05           |                     |
| 5               | QPSK       | 12      | 13        | 22.06          | 22.06             | 22.03           |                     |
| 5               | QPSK       | 25      | 0         | 22.04          | 21.99             | 22.00           | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.17          | 22.16             | 22.19           |                     |
| 5               | 16QAM      | 1       | 12        | 22.26          | 22.25             | 22.21           |                     |
| 5               | 16QAM      | 1       | 24        | 22.32          | 22.32             | 22.30           | 21.7                |
| 5               | 16QAM      | 12      | 0         | 21.06          | 21.01             | 21.03           |                     |
| 5               | 16QAM      | 12      | 7         | 21.09          | 21.09             | 21.09           |                     |
| 5               | 16QAM      | 12      | 13        | 21.07          | 21.10             | 21.05           | 21.7                |
| 5               | 16QAM      | 25      | 0         | 21.05          | 21.02             | 21.02           |                     |
| 5               | 64QAM      | 1       | 0         | 21.11          | 21.14             | 21.15           |                     |
| 5               | 64QAM      | 1       | 12        | 21.19          | 21.20             | 21.16           | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.25          | 21.22             | 21.22           |                     |
| 5               | 64QAM      | 12      | 0         | 20.09          | 20.02             | 20.07           |                     |
| 5               | 64QAM      | 12      | 7         | 20.15          | 20.15             | 20.10           | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.11          | 20.11             | 20.10           |                     |
| 5               | 64QAM      | 25      | 0         | 20.10          | 20.01             | 20.03           |                     |



| Band 66         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 2           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 132072          | 132322             | 132592           |                     |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |
| 20              | QPSK       | 1       | 0         | 24.35           | 24.39              | 24.57            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.22           | 24.27              | 24.30            |                     |
| 20              | QPSK       | 1       | 99        | 24.34           | 24.32              | 24.26            |                     |
| 20              | QPSK       | 50      | 0         | 23.40           | 23.47              | 23.49            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.46           | 23.43              | 23.47            |                     |
| 20              | QPSK       | 50      | 50        | 23.47           | 23.48              | 23.50            |                     |
| 20              | QPSK       | 100     | 0         | 23.46           | 23.40              | 23.47            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.67           | 23.74              | 23.76            |                     |
| 20              | 16QAM      | 1       | 49        | 23.56           | 23.64              | 23.63            |                     |
| 20              | 16QAM      | 1       | 99        | 23.70           | 23.64              | 23.60            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.37           | 22.46              | 22.54            |                     |
| 20              | 16QAM      | 50      | 24        | 22.46           | 22.43              | 22.47            |                     |
| 20              | 16QAM      | 50      | 50        | 22.44           | 22.47              | 22.51            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.44           | 22.41              | 22.48            |                     |
| 20              | 64QAM      | 1       | 0         | 22.46           | 22.43              | 22.61            |                     |
| 20              | 64QAM      | 1       | 49        | 22.44           | 22.57              | 22.12            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.58           | 22.59              | 22.49            |                     |
| 20              | 64QAM      | 50      | 0         | 21.39           | 21.46              | 21.51            |                     |
| 20              | 64QAM      | 50      | 24        | 21.48           | 21.45              | 21.31            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.45           | 21.49              | 21.54            |                     |
| 20              | 64QAM      | 100     | 0         | 21.49           | 21.46              | 21.48            |                     |
| Channel         |            |         |           | 132047          | 132322             | 132597           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5          | 1745               | 1772.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.30           | 24.41              | 24.38            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.21           | 24.29              | 24.33            |                     |
| 15              | QPSK       | 1       | 74        | 24.34           | 24.36              | 24.31            |                     |
| 15              | QPSK       | 36      | 0         | 23.37           | 23.44              | 23.49            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.43           | 23.43              | 23.47            |                     |
| 15              | QPSK       | 36      | 39        | 23.42           | 23.48              | 23.52            |                     |
| 15              | QPSK       | 75      | 0         | 23.44           | 23.43              | 23.47            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.60           | 23.74              | 23.73            |                     |
| 15              | 16QAM      | 1       | 37        | 23.59           | 23.63              | 23.68            |                     |
| 15              | 16QAM      | 1       | 74        | 23.64           | 23.66              | 23.65            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.36           | 22.46              | 22.49            |                     |
| 15              | 16QAM      | 36      | 20        | 22.42           | 22.40              | 22.45            |                     |
| 15              | 16QAM      | 36      | 39        | 22.42           | 22.46              | 22.50            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.46           | 22.41              | 22.45            |                     |
| 15              | 64QAM      | 1       | 0         | 22.46           | 22.59              | 22.58            |                     |
| 15              | 64QAM      | 1       | 37        | 22.47           | 22.56              | 22.44            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.55           | 22.58              | 22.57            |                     |
| 15              | 64QAM      | 36      | 0         | 21.38           | 21.49              | 21.21            |                     |
| 15              | 64QAM      | 36      | 20        | 21.43           | 21.44              | 21.46            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.45           | 21.50              | 21.52            |                     |
| 15              | 64QAM      | 75      | 0         | 21.44           | 21.42              | 21.47            |                     |
| Channel         |            |         |           | 132022          | 132322             | 132622           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715            | 1745               | 1775             |                     |
| 10              | QPSK       | 1       | 0         | 24.37           | 24.44              | 24.45            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.30           | 24.40              | 24.44            |                     |
| 10              | QPSK       | 1       | 49        | 24.30           | 24.39              | 24.41            |                     |
| 10              | QPSK       | 25      | 0         | 23.41           | 23.46              | 23.49            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.45           | 23.49              | 23.49            |                     |
| 10              | QPSK       | 25      | 25        | 23.44           | 23.50              | 23.57            |                     |
| 10              | QPSK       | 50      | 0         | 23.46           | 23.47              | 23.49            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.72           | 23.82              | 23.84            |                     |
| 10              | 16QAM      | 1       | 25        | 23.70           | 23.79              | 23.81            |                     |
| 10              | 16QAM      | 1       | 49        | 23.73           | 23.76              | 23.81            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.48           | 22.47              | 22.50            |                     |
| 10              | 16QAM      | 25      | 12        | 22.48           | 22.47              | 22.52            |                     |
| 10              | 16QAM      | 25      | 25        | 22.41           | 22.50              | 22.55            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.45           | 22.46              | 22.48            |                     |
| 10              | 64QAM      | 1       | 0         | 22.37           | 22.61              | 22.08            |                     |
| 10              | 64QAM      | 1       | 25        | 22.61           | 22.71              | 22.78            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.61           | 22.67              | 22.72            |                     |
| 10              | 64QAM      | 25      | 0         | 21.45           | 21.49              | 21.49            |                     |
| 10              | 64QAM      | 25      | 12        | 21.48           | 21.51              | 21.55            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.45           | 21.53              | 21.60            |                     |
| 10              | 64QAM      | 50      | 0         | 21.47           | 21.49              | 21.52            |                     |
| Channel         |            |         |           | 131997          | 132322             | 132647           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5          | 1745               | 1777.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.35           | 24.40              | 24.49            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.39           | 24.40              | 24.52            |                     |
| 5               | QPSK       | 1       | 24        | 24.33           | 24.43              | 24.46            |                     |
| 5               | QPSK       | 12      | 0         | 23.44           | 23.46              | 23.59            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.47           | 23.56              | 23.59            |                     |
| 5               | QPSK       | 12      | 13        | 23.44           | 23.53              | 23.57            |                     |
| 5               | QPSK       | 25      | 0         | 23.43           | 23.45              | 23.55            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.75           | 23.73              | 23.80            |                     |
| 5               | 16QAM      | 1       | 12        | 23.73           | 23.81              | 23.84            |                     |
| 5               | 16QAM      | 1       | 24        | 23.67           | 23.78              | 23.80            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.46           | 22.51              | 22.62            |                     |
| 5               | 16QAM      | 12      | 7         | 22.50           | 22.61              | 22.64            |                     |
| 5               | 16QAM      | 12      | 13        | 22.47           | 22.57              | 22.58            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.46           | 22.46              | 22.59            |                     |
| 5               | 64QAM      | 1       | 0         | 22.41           | 22.71              | 22.81            |                     |
| 5               | 64QAM      | 1       | 12        | 22.64           | 22.73              | 22.77            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.65           | 22.75              | 22.73            |                     |
| 5               | 64QAM      | 12      | 0         | 21.47           | 21.53              | 21.64            |                     |
| 5               | 64QAM      | 12      | 7         | 21.53           | 21.61              | 21.64            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.49           | 21.55              | 21.60            |                     |
| 5               | 64QAM      | 25      | 0         | 21.44           | 21.49              | 21.59            |                     |
| Channel         |            |         |           | 131987          | 132322             | 132657           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5          | 1745               | 1778.5           |                     |
| 3               | QPSK       | 1       | 0         | 24.38           | 24.42              | 24.50            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.40           | 24.52              | 24.56            |                     |
| 3               | QPSK       | 1       | 14        | 24.35           | 24.45              | 24.48            |                     |
| 3               | QPSK       | 8       | 0         | 23.45           | 23.49              | 23.55            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.47           | 23.53              | 23.57            |                     |
| 3               | QPSK       | 8       | 7         | 23.43           | 23.52              | 23.54            |                     |
| 3               | QPSK       | 15      | 0         | 23.44           | 23.49              | 23.57            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.70           | 23.70              | 23.82            |                     |
| 3               | 16QAM      | 1       | 8         | 23.76           | 23.83              | 23.87            |                     |
| 3               | 16QAM      | 1       | 14        | 23.66           | 23.78              | 23.81            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.50           | 22.53              | 22.66            |                     |
| 3               | 16QAM      | 8       | 4         | 22.55           | 22.61              | 22.63            |                     |
| 3               | 16QAM      | 8       | 7         | 22.51           | 22.58              | 22.59            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.47           | 22.49              | 22.58            |                     |
| 3               | 64QAM      | 1       | 0         | 22.40           | 22.69              | 22.78            |                     |
| 3               | 64QAM      | 1       | 8         | 22.70           | 22.83              | 22.81            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.67           | 22.73              | 22.75            |                     |
| 3               | 64QAM      | 8       | 0         | 21.39           | 21.53              | 21.65            |                     |
| 3               | 64QAM      | 8       | 4         | 21.53           | 21.64              | 21.68            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.50           | 21.58              | 21.58            |                     |
| 3               | 64QAM      | 15      | 0         | 21.48           | 21.49              | 21.62            |                     |
| Channel         |            |         |           | 131979          | 132322             | 132685           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7          | 1745               | 1779.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 24.27           | 24.36              | 24.43            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.30           | 24.40              | 24.42            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.22           | 24.37              | 24.41            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.33           | 24.43              | 24.44            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.35           | 24.47              | 24.48            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.27           | 24.38              | 24.42            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.38           | 23.43              | 23.48            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.59           | 23.72              | 23.75            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.65           | 23.80              | 23.83            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.59           | 23.73              | 23.76            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.40           | 23.55              | 23.53            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.46           | 23.57              | 23.55            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.36           | 23.50              | 23.50            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.44           | 21.83              | 22.58            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.30           | 21.79              | 22.64            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.41           | 21.72              | 22.74            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.41           | 21.82              | 22.67            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.31           | 21.74              | 22.62            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.44           | 21.79              | 22.68            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.43           | 21.73              | 22.61            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.21           | 20.71              | 21.81            |                     |





| Band 71         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222          | 133322             | 133372           |                     |
| Frequency (MHz) |            |         |           | 673             | 683                | 688              |                     |
| 20              | QPSK       | 1       | 0         | 24.77           | 24.67              | 24.68            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.65           | 24.65              | 24.65            |                     |
| 20              | QPSK       | 1       | 99        | 24.68           | 24.66              | 24.61            |                     |
| 20              | QPSK       | 50      | 0         | 23.76           | 23.76              | 23.72            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.80           | 23.74              | 23.75            |                     |
| 20              | QPSK       | 50      | 50        | 23.84           | 23.78              | 23.75            |                     |
| 20              | QPSK       | 100     | 0         | 23.79           | 23.71              | 23.77            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 24.06           | 23.96              | 24.00            |                     |
| 20              | 16QAM      | 1       | 49        | 24.01           | 24.03              | 24.04            |                     |
| 20              | 16QAM      | 1       | 99        | 24.03           | 24.01              | 23.95            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.77           | 22.75              | 22.75            |                     |
| 20              | 16QAM      | 50      | 24        | 22.82           | 22.77              | 22.73            |                     |
| 20              | 16QAM      | 50      | 50        | 22.82           | 22.77              | 22.78            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.79           | 22.73              | 22.78            |                     |
| 20              | 64QAM      | 1       | 0         | 22.04           | 22.83              | 22.82            | 23.7                |
| 20              | 64QAM      | 1       | 49        | 22.63           | 22.90              | 22.29            |                     |
| 20              | 64QAM      | 1       | 99        | 22.04           | 22.89              | 22.87            |                     |
| 20              | 64QAM      | 50      | 0         | 21.00           | 21.70              | 21.40            | 22.7                |
| 20              | 64QAM      | 50      | 24        | 21.30           | 21.64              | 21.57            |                     |
| 20              | 64QAM      | 50      | 50        | 21.84           | 21.60              | 21.74            |                     |
| 20              | 64QAM      | 100     | 0         | 21.53           | 21.76              | 21.80            | Tune-up limit (dBm) |
| Channel         |            |         |           | 133197          | 133297             | 133397           |                     |
| Frequency (MHz) |            |         |           | 670.5           | 680.5              | 690.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.74           | 24.65              | 24.63            |                     |
| 15              | QPSK       | 1       | 37        | 24.02           | 24.66              | 24.61            | 25.7                |
| 15              | QPSK       | 1       | 74        | 24.65           | 24.68              | 24.64            |                     |
| 15              | QPSK       | 36      | 0         | 23.73           | 23.71              | 23.69            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.80           | 23.73              | 23.78            |                     |
| 15              | QPSK       | 36      | 39        | 23.73           | 23.76              | 23.74            |                     |
| 15              | QPSK       | 75      | 0         | 23.81           | 23.74              | 23.68            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.05           | 24.01              | 23.98            |                     |
| 15              | 16QAM      | 1       | 37        | 23.95           | 24.02              | 24.00            |                     |
| 15              | 16QAM      | 1       | 74        | 23.97           | 24.00              | 23.98            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.76           | 22.75              | 22.71            |                     |
| 15              | 16QAM      | 36      | 20        | 22.79           | 22.74              | 22.79            |                     |
| 15              | 16QAM      | 36      | 39        | 22.77           | 22.79              | 22.75            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.63           | 22.73              | 22.70            |                     |
| 15              | 64QAM      | 1       | 0         | 22.02           | 22.43              | 22.76            |                     |
| 15              | 64QAM      | 1       | 37        | 21.86           | 22.94              | 22.88            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.88           | 22.60              | 22.84            |                     |
| 15              | 64QAM      | 36      | 0         | 20.97           | 21.77              | 21.44            |                     |
| 15              | 64QAM      | 36      | 20        | 20.94           | 21.78              | 21.81            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.48           | 21.56              | 21.78            |                     |
| 15              | 64QAM      | 75      | 0         | 21.29           | 21.75              | 21.67            |                     |
| Channel         |            |         |           | 133172          | 133272             | 133422           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668             | 678                | 693              |                     |
| 10              | QPSK       | 1       | 0         | 24.76           | 24.64              | 24.66            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.61           | 24.62              | 24.63            |                     |
| 10              | QPSK       | 1       | 49        | 24.66           | 24.71              | 24.62            |                     |
| 10              | QPSK       | 25      | 0         | 23.78           | 23.71              | 23.69            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.79           | 23.82              | 23.70            |                     |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.78              | 23.74            |                     |
| 10              | QPSK       | 50      | 0         | 23.80           | 23.81              | 23.71            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.10           | 24.02              | 24.04            |                     |
| 10              | 16QAM      | 1       | 25        | 23.98           | 24.06              | 24.00            |                     |
| 10              | 16QAM      | 1       | 49        | 23.98           | 24.07              | 23.96            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.76           | 22.70              | 22.68            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.81              | 22.68            |                     |
| 10              | 16QAM      | 25      | 25        | 22.65           | 22.77              | 22.73            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.79           | 22.80              | 22.69            |                     |
| 10              | 64QAM      | 1       | 0         | 21.80           | 22.30              | 22.77            |                     |
| 10              | 64QAM      | 1       | 25        | 22.01           | 22.95              | 22.95            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.14           | 22.96              | 22.45            |                     |
| 10              | 64QAM      | 25      | 0         | 20.82           | 21.71              | 21.71            |                     |
| 10              | 64QAM      | 25      | 12        | 20.84           | 21.84              | 21.76            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.71           | 21.81              | 21.64            |                     |
| 10              | 64QAM      | 50      | 0         | 20.83           | 21.77              | 21.69            |                     |
| Channel         |            |         |           | 133147          | 133247             | 133447           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5           | 675.5              | 695.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.57           | 24.69              | 24.72            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.71           | 24.65              | 24.70            |                     |
| 5               | QPSK       | 1       | 24        | 24.70           | 24.68              | 24.63            |                     |
| 5               | QPSK       | 12      | 0         | 23.73           | 23.76              | 23.74            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.84           | 23.79              | 23.76            |                     |
| 5               | QPSK       | 12      | 13        | 23.76           | 23.76              | 23.70            |                     |
| 5               | QPSK       | 25      | 0         | 23.76           | 23.76              | 23.68            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.75           | 24.01              | 24.02            |                     |
| 5               | 16QAM      | 1       | 12        | 23.97           | 24.03              | 23.97            |                     |
| 5               | 16QAM      | 1       | 24        | 23.95           | 24.02              | 23.93            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64           | 22.80              | 22.78            |                     |
| 5               | 16QAM      | 12      | 7         | 22.86           | 22.80              | 22.78            |                     |
| 5               | 16QAM      | 12      | 13        | 22.77           | 22.77              | 22.70            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.69           | 22.81              | 22.70            |                     |
| 5               | 64QAM      | 1       | 0         | 21.74           | 22.06              | 22.91            |                     |
| 5               | 64QAM      | 1       | 12        | 21.79           | 22.94              | 22.70            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.96           | 22.96              | 22.25            |                     |
| 5               | 64QAM      | 12      | 0         | 20.82           | 21.49              | 21.68            |                     |
| 5               | 64QAM      | 12      | 7         | 21.00           | 21.86              | 21.73            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.99           | 21.81              | 21.61            |                     |
| 5               | 64QAM      | 25      | 0         | 20.76           | 21.59              | 21.48            |                     |



| Band 2          |            |         |           |                                                                              |                   |                 |                     |  |  |
|-----------------|------------|---------|-----------|------------------------------------------------------------------------------|-------------------|-----------------|---------------------|--|--|
| Ant 0           |            |         |           |                                                                              |                   |                 |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./                                                               | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 18700                                                                        | 18900             | 19100           |                     |  |  |
| Frequency (MHz) |            |         |           | 1860                                                                         | 1880              | 1900            |                     |  |  |
| 20              | QPSK       | 1       | 0         | 24.72                                                                        | 24.80             | 24.91           | 25.7                |  |  |
| 20              | QPSK       | 1       | 49        | 24.67                                                                        | 24.74             | 24.77           |                     |  |  |
| 20              | QPSK       | 1       | 99        | 24.64                                                                        | 24.71             | 24.79           |                     |  |  |
| 20              | QPSK       | 50      | 0         | 23.78                                                                        | 23.84             | 23.88           | 24.7                |  |  |
| 20              | QPSK       | 50      | 24        | 23.87                                                                        | 23.86             | 23.91           |                     |  |  |
| 20              | QPSK       | 50      | 50        | 23.88                                                                        | 23.94             | 23.99           |                     |  |  |
| 20              | QPSK       | 100     | 0         | 23.86                                                                        | 23.87             | 23.94           | 24.7                |  |  |
| 20              | 16QAM      | 1       | 0         | 24.10                                                                        | 24.10             | 24.20           |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 24.03                                                                        | 24.08             | 24.18           |                     |  |  |
| 20              | 16QAM      | 1       | 99        | 23.93                                                                        | 24.12             | 24.12           | 23.7                |  |  |
| 20              | 16QAM      | 50      | 0         | 22.80                                                                        | 22.85             | 22.89           |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.89                                                                        | 22.87             | 22.94           |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 22.87                                                                        | 22.95             | 23.00           | 23.7                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.86                                                                        | 22.86             | 22.89           |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 22.94                                                                        | 22.98             | 23.03           |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 22.91                                                                        | 22.97             | 22.38           | 23.7                |  |  |
| 20              | 64QAM      | 1       | 99        | 22.84                                                                        | 23.00             | 22.49           |                     |  |  |
| 20              | 64QAM      | 50      | 0         | 21.81                                                                        | 21.87             | 21.54           |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 21.92                                                                        | 21.92             | 21.54           | 22.7                |  |  |
| 20              | 64QAM      | 50      | 50        | 21.86                                                                        | 21.97             | 21.58           |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.87                                                                        | 21.90             | 21.49           |                     |  |  |
| Channel         |            |         |           | 18675                                                                        | 18900             | 19125           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1857.5                                                                       | 1880              | 1902.5          |                     |  |  |
| 15              | QPSK       | 1       | 0         | 24.75                                                                        | 24.83             | 24.87           | 25.7                |  |  |
| 15              | QPSK       | 1       | 37        | 24.70                                                                        | 24.80             | 24.88           |                     |  |  |
| 15              | QPSK       | 1       | 74        | 24.73                                                                        | 24.80             | 24.90           |                     |  |  |
| 15              | QPSK       | 36      | 0         | 23.84                                                                        | 23.87             | 23.91           | 24.7                |  |  |
| 15              | QPSK       | 36      | 20        | 23.93                                                                        | 23.90             | 24.03           |                     |  |  |
| 15              | QPSK       | 36      | 39        | 23.87                                                                        | 23.97             | 24.03           |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.90                                                                        | 23.91             | 23.93           | 24.7                |  |  |
| 15              | 16QAM      | 1       | 0         | 24.02                                                                        | 24.13             | 24.19           |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 24.06                                                                        | 24.14             | 24.20           |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 24.03                                                                        | 24.13             | 24.18           | 23.7                |  |  |
| 15              | 16QAM      | 36      | 0         | 22.81                                                                        | 22.86             | 22.92           |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.88                                                                        | 22.90             | 23.03           |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 22.88                                                                        | 22.97             | 23.03           | 23.7                |  |  |
| 15              | 16QAM      | 75      | 0         | 22.91                                                                        | 22.91             | 22.93           |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 22.88                                                                        | 23.01             | 22.51           |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 22.96                                                                        | 23.01             | 22.46           | 23.7                |  |  |
| 15              | 64QAM      | 1       | 74        | 22.80                                                                        | 23.04             | 22.53           |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 21.85                                                                        | 21.91             | 21.54           |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 21.94                                                                        | 21.91             | 21.56           | 22.7                |  |  |
| 15              | 64QAM      | 36      | 39        | 21.84                                                                        | 22.04             | 21.81           |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 21.89                                                                        | 21.91             | 21.47           |                     |  |  |
| Channel         |            |         |           | 18650 <th>18900</th> <th>19150</th> <th colspan="3">Tune-up limit (dBm)</th> | 18900             | 19150           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1855 <th>1880</th> <th>1905</th> <th colspan="3"></th>                       | 1880              | 1905            |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.76                                                                        | 24.72             | 24.89           | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.69                                                                        | 24.82             | 24.87           |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.72                                                                        | 24.83             | 24.87           |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.86                                                                        | 23.85             | 23.90           | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 23.87                                                                        | 23.89             | 23.95           |                     |  |  |
| 10              | QPSK       | 25      | 25        | 23.88                                                                        | 24.00             | 24.05           |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.87                                                                        | 23.89             | 23.97           | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 24.12                                                                        | 24.15             | 24.23           |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.13                                                                        | 24.18             | 24.27           |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 24.08                                                                        | 24.18             | 24.25           | 24.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 22.86                                                                        | 22.86             | 22.91           |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.90                                                                        | 22.90             | 22.96           |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.88                                                                        | 22.97             | 23.05           | 23.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.88                                                                        | 22.88             | 22.95           |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 23.02                                                                        | 23.03             | 22.50           |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 23.05                                                                        | 23.16             | 22.73           | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.92                                                                        | 23.10             | 22.89           |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.88                                                                        | 21.88             | 21.51           |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.94                                                                        | 21.92             | 21.66           | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 21.90                                                                        | 22.00             | 21.58           |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.90                                                                        | 21.92             | 21.48           |                     |  |  |
| Channel         |            |         |           | 1852.5                                                                       | 18900             | 19175           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1852.5                                                                       | 1880              | 1907.5          |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.73                                                                        | 24.75             | 24.88           | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.76                                                                        | 24.89             | 24.89           |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.79                                                                        | 24.88             | 24.90           |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.83                                                                        | 23.85             | 24.00           | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.91                                                                        | 23.94             | 24.02           |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.88                                                                        | 23.93             | 24.03           |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.85                                                                        | 23.87             | 24.01           | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 24.07                                                                        | 24.08             | 24.20           |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 24.05                                                                        | 24.15             | 24.20           |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 24.08                                                                        | 24.24             | 24.21           | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.87                                                                        | 22.89             | 23.00           |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.92                                                                        | 23.01             | 23.06           |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.86                                                                        | 22.96             | 23.04           | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.86                                                                        | 22.90             | 23.04           |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 23.04                                                                        | 23.07             | 22.61           |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 23.00                                                                        | 23.13             | 22.65           | 23.7                |  |  |
| 5               | 64QAM      | 1       | 24        | 23.02                                                                        | 23.12             | 22.49           |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.92                                                                        | 21.92             | 21.62           |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.95                                                                        | 22.04             | 21.63           | 22.7                |  |  |
| 5               | 64QAM      | 12      | 13        | 21.93                                                                        | 22.00             | 21.53           |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.90                                                                        | 21.90             | 21.48           |                     |  |  |
| Channel         |            |         |           | 18615                                                                        | 18900             | 19185           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1851.5                                                                       | 1880              | 1908.5          |                     |  |  |
| 3               | QPSK       | 1       | 0         | 24.74                                                                        | 24.77             | 24.88           | 25.7                |  |  |
| 3               | QPSK       | 1       | 8         | 24.84                                                                        | 24.91             | 24.96           |                     |  |  |
| 3               | QPSK       | 1       | 14        | 24.77                                                                        | 24.88             | 24.95           |                     |  |  |
| 3               | QPSK       | 8       | 0         | 23.85                                                                        | 23.88             | 23.98           | 24.7                |  |  |
| 3               | QPSK       | 8       | 4         | 23.86                                                                        | 23.95             | 24.02           |                     |  |  |
| 3               | QPSK       | 8       | 7         | 23.89                                                                        | 23.95             | 24.01           |                     |  |  |
| 3               | QPSK       | 15      | 0         | 23.88                                                                        | 23.89             | 24.02           | 24.7                |  |  |
| 3               | 16QAM      | 1       | 0         | 24.05                                                                        | 24.07             | 24.19           |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 24.10                                                                        | 24.22             | 24.26           |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 24.04                                                                        | 24.22             | 24.25           | 23.7                |  |  |
| 3               | 16QAM      | 8       | 0         | 22.91                                                                        | 22.94             | 23.06           |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 22.93                                                                        | 23.01             | 23.12           |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 22.91                                                                        | 23.02             | 23.06           | 23.7                |  |  |
| 3               | 16QAM      | 15      | 0         | 22.86                                                                        | 22.92             | 23.05           |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 23.01                                                                        | 22.99             | 22.62           |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 23.11                                                                        | 23.20             | 22.62           | 23.7                |  |  |
| 3               | 64QAM      | 1       | 14        | 23.05                                                                        | 23.14             | 22.49           |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 21.89                                                                        | 21.90             | 21.55           |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 21.93                                                                        | 22.02             | 21.56           | 22.7                |  |  |
| 3               | 64QAM      | 8       | 7         | 21.94                                                                        | 21.99             | 21.50           |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 21.90                                                                        | 21.89             | 21.50           |                     |  |  |
| Channel         |            |         |           | 18607 <th>18900</th> <th>19193</th> <th colspan="3">Tune-up limit (dBm)</th> | 18900             | 19193           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1850.7 <th>1880</th> <th>1909.3</th> <th colspan="3"></th>                   | 1880              | 1909.3          |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.71                                                                        | 24.79             | 24.80           | 25.7                |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.80                                                                        | 24.85             | 24.88           |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.73                                                                        | 24.80             | 24.84           |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.74                                                                        | 24.83             | 24.86           | 24.7                |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.77                                                                        | 24.86             | 24.89           |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.75                                                                        | 24.80             | 24.87           |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 24.02                                                                        | 24.14             | 24.17           | 24.7                |  |  |
| 1.4             | 16QAM      | 1       | 3         | 24.06                                                                        | 24.16             | 24.21           |                     |  |  |
| 1.4             | 16QAM      | 1       | 5         | 24.02                                                                        | 24.10             | 24.13           |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.81                                                                        | 23.88             | 23.90           | 24.7                |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.87                                                                        | 23.95             | 23.98           |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.82                                                                        | 23.86             | 23.93           |                     |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.84                                                                        | 22.83             | 23.02           | 23.7                |  |  |
| 1.4             | 16QAM      | 6       | 1         | 22.90                                                                        | 22.92             | 23.04           |                     |  |  |
| 1.4             | 16QAM      | 6       | 3         | 22.82                                                                        | 23.08             | 22.45           |                     |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.97                                                                        | 23.03             | 22.43           | 23.7                |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.93                                                                        | 23.01             | 22.46           |                     |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.97                                                                        | 23.06             | 22.52           |                     |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.93                                                                        | 23.02             | 22.40           | 23.7                |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.95                                                                        | 23.01             | 22.38           |                     |  |  |



| Band 4          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Art 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20050           | 20175              | 20350            |                     |
| Frequency (MHz) |            |         |           | 1720            | 1732.5             | 1745             |                     |
| 20              | QPSK       | 1       | 0         | 24.64           | 24.72              | 24.65            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.52           | 24.51              | 24.51            |                     |
| 20              | QPSK       | 1       | 99        | 24.53           | 24.54              | 24.53            |                     |
| 20              | QPSK       | 50      | 0         | 23.70           | 23.72              | 23.73            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.72           | 23.70              | 23.74            |                     |
| 20              | QPSK       | 50      | 50        | 23.64           | 23.70              | 23.69            |                     |
| 20              | QPSK       | 100     | 0         | 23.69           | 23.75              | 23.61            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.98           | 24.04              | 23.99            |                     |
| 20              | 16QAM      | 1       | 49        | 23.85           | 23.87              | 23.88            |                     |
| 20              | 16QAM      | 1       | 99        | 23.87           | 23.86              | 23.84            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.99           | 22.71              | 22.74            |                     |
| 20              | 16QAM      | 50      | 24        | 22.73           | 22.75              | 22.77            |                     |
| 20              | 16QAM      | 50      | 50        | 22.85           | 22.64              | 22.68            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.71           | 22.73              | 22.65            |                     |
| 20              | 64QAM      | 1       | 0         | 22.84           | 22.90              | 22.69            |                     |
| 20              | 64QAM      | 1       | 49        | 22.73           | 22.72              | 22.77            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.73           | 22.64              | 22.80            |                     |
| 20              | 64QAM      | 50      | 0         | 21.70           | 21.76              | 21.77            |                     |
| 20              | 64QAM      | 50      | 24        | 21.74           | 21.75              | 21.77            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.68           | 21.64              | 21.69            |                     |
| 20              | 64QAM      | 100     | 0         | 21.76           | 21.76              | 21.70            |                     |
| Channel         |            |         |           | 20025           | 20175              | 20325            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1717.5          | 1732.5             | 1747.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.67           | 24.71              | 24.70            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.52           | 24.51              | 24.57            |                     |
| 15              | QPSK       | 1       | 74        | 24.56           | 24.55              | 24.57            |                     |
| 15              | QPSK       | 36      | 0         | 23.78           | 23.72              | 23.72            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.73           | 23.73              | 23.76            |                     |
| 15              | QPSK       | 36      | 39        | 23.66           | 23.67              | 23.71            |                     |
| 15              | QPSK       | 75      | 0         | 23.70           | 23.75              | 23.68            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.98           | 24.02              | 24.04            |                     |
| 15              | 16QAM      | 1       | 37        | 23.98           | 23.87              | 23.92            |                     |
| 15              | 16QAM      | 1       | 74        | 23.87           | 23.85              | 23.89            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.78           | 22.72              | 22.76            |                     |
| 15              | 16QAM      | 36      | 20        | 22.71           | 22.73              | 22.78            |                     |
| 15              | 16QAM      | 36      | 39        | 22.67           | 22.68              | 22.71            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.72           | 22.75              | 22.69            |                     |
| 15              | 64QAM      | 1       | 0         | 22.84           | 22.82              | 22.92            |                     |
| 15              | 64QAM      | 1       | 37        | 22.80           | 22.66              | 22.81            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.76           | 22.74              | 22.80            |                     |
| 15              | 64QAM      | 36      | 0         | 21.79           | 21.81              | 21.78            |                     |
| 15              | 64QAM      | 36      | 20        | 21.73           | 21.74              | 21.75            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.71           | 21.62              | 21.76            |                     |
| 15              | 64QAM      | 75      | 0         | 21.71           | 21.75              | 21.67            |                     |
| Channel         |            |         |           | 20000           | 20175              | 20350            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715            | 1732.5             | 1750             |                     |
| 10              | QPSK       | 1       | 0         | 24.59           | 24.65              | 24.66            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.57           | 24.57              | 24.71            |                     |
| 10              | QPSK       | 1       | 49        | 24.60           | 24.62              | 24.66            |                     |
| 10              | QPSK       | 25      | 0         | 23.72           | 23.69              | 23.70            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.72           | 23.76              | 23.75            |                     |
| 10              | QPSK       | 25      | 25        | 23.75           | 23.77              | 23.81            |                     |
| 10              | QPSK       | 50      | 0         | 23.75           | 23.75              | 23.76            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.98           | 24.02              | 24.06            |                     |
| 10              | 16QAM      | 1       | 25        | 23.97           | 24.02              | 24.03            |                     |
| 10              | 16QAM      | 1       | 49        | 24.00           | 23.98              | 24.05            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.72           | 22.67              | 22.75            |                     |
| 10              | 16QAM      | 25      | 12        | 22.76           | 22.79              | 22.77            |                     |
| 10              | 16QAM      | 25      | 25        | 22.74           | 22.72              | 22.78            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.75           | 22.77              | 22.74            |                     |
| 10              | 64QAM      | 1       | 0         | 22.70           | 22.83              | 22.90            |                     |
| 10              | 64QAM      | 1       | 25        | 22.68           | 22.80              | 22.98            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.91           | 22.65              | 22.95            |                     |
| 10              | 64QAM      | 25      | 0         | 21.70           | 21.70              | 21.74            |                     |
| 10              | 64QAM      | 25      | 12        | 21.77           | 21.74              | 21.79            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.76           | 21.57              | 21.83            |                     |
| 10              | 64QAM      | 50      | 0         | 21.78           | 21.74              | 21.79            |                     |
| Channel         |            |         |           | 19975           | 20175              | 20375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5          | 1732.5             | 1752.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.63           | 24.62              | 24.67            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.69           | 24.67              | 24.71            |                     |
| 5               | QPSK       | 1       | 24        | 24.66           | 24.69              | 24.71            |                     |
| 5               | QPSK       | 12      | 0         | 23.71           | 23.69              | 23.75            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.76           | 23.77              | 23.80            |                     |
| 5               | QPSK       | 12      | 13        | 23.72           | 23.76              | 23.77            |                     |
| 5               | QPSK       | 25      | 0         | 23.70           | 23.73              | 23.77            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.97           | 23.92              | 24.05            |                     |
| 5               | 16QAM      | 1       | 12        | 23.98           | 24.00              | 24.04            |                     |
| 5               | 16QAM      | 1       | 24        | 24.01           | 23.99              | 24.03            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.75           | 22.69              | 22.82            |                     |
| 5               | 16QAM      | 12      | 7         | 22.79           | 22.80              | 22.85            |                     |
| 5               | 16QAM      | 12      | 13        | 22.78           | 22.80              | 22.80            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.74           | 22.76              | 22.79            |                     |
| 5               | 64QAM      | 1       | 0         | 22.72           | 22.67              | 22.99            |                     |
| 5               | 64QAM      | 1       | 12        | 22.92           | 22.74              | 22.98            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.98           | 22.61              | 22.95            |                     |
| 5               | 64QAM      | 12      | 0         | 21.77           | 21.72              | 21.85            |                     |
| 5               | 64QAM      | 12      | 7         | 21.84           | 21.77              | 21.90            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.78           | 21.62              | 21.84            |                     |
| 5               | 64QAM      | 25      | 0         | 21.74           | 21.65              | 21.82            |                     |
| Channel         |            |         |           | 19965           | 20175              | 20385            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5          | 1732.5             | 1753.5           |                     |
| 3               | QPSK       | 1       | 0         | 24.64           | 24.60              | 24.69            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.71           | 24.71              | 24.71            |                     |
| 3               | QPSK       | 1       | 14        | 24.65           | 24.69              | 24.67            |                     |
| 3               | QPSK       | 8       | 0         | 23.71           | 23.66              | 23.79            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.75           | 23.75              | 23.77            |                     |
| 3               | QPSK       | 8       | 7         | 23.74           | 23.76              | 23.74            |                     |
| 3               | QPSK       | 15      | 0         | 23.74           | 23.73              | 23.78            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.99           | 23.92              | 23.98            |                     |
| 3               | 16QAM      | 1       | 8         | 24.05           | 24.07              | 24.10            |                     |
| 3               | 16QAM      | 1       | 14        | 23.98           | 23.97              | 24.05            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.79           | 22.75              | 22.82            |                     |
| 3               | 16QAM      | 8       | 4         | 22.84           | 22.84              | 22.90            |                     |
| 3               | 16QAM      | 8       | 7         | 22.81           | 22.79              | 22.83            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.80           | 22.74              | 22.78            |                     |
| 3               | 64QAM      | 1       | 0         | 22.75           | 22.84              | 22.95            |                     |
| 3               | 64QAM      | 1       | 8         | 23.00           | 22.81              | 23.01            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.97           | 22.69              | 22.98            |                     |
| 3               | 64QAM      | 8       | 0         | 21.73           | 21.73              | 21.85            |                     |
| 3               | 64QAM      | 8       | 4         | 21.84           | 21.72              | 21.88            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.83           | 21.64              | 21.83            |                     |
| 3               | 64QAM      | 15      | 0         | 21.74           | 21.70              | 21.78            |                     |
| Channel         |            |         |           | 19957           | 20175              | 20393            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7          | 1732.5             | 1754.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 24.54           | 24.59              | 24.59            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.63           | 24.63              | 24.66            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.54           | 24.61              | 24.60            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59           | 24.60              | 24.67            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.65           | 24.64              | 24.71            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.63           | 24.59              | 24.63            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.68           | 23.67              | 23.72            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.69           | 23.90              | 23.94            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.95           | 23.97              | 24.00            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.89           | 23.93              | 23.94            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.69           | 23.69              | 23.75            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.76           | 23.73              | 23.80            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.67           | 23.68              | 23.71            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.73           | 22.75              | 22.78            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.68           | 22.71              | 22.88            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.81           | 22.75              | 22.94            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.79           | 22.65              | 22.85            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.69           | 22.75              | 22.82            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.83           | 22.84              | 22.91            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.79           | 22.70              | 22.86            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.63           | 21.62              | 21.71            |                     |



| Band 5          |            |         |           |            |            |            |                     |
|-----------------|------------|---------|-----------|------------|------------|------------|---------------------|
| Ant 1           |            |         |           |            |            |            |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power      | Power      | Power      | Tune-up limit (dbm) |
|                 |            |         |           | Mode Ch. / | Mode Ch. / | Mode Ch. / |                     |
| Channel         |            |         |           | 20450      | 20525      | 20600      |                     |
| Frequency (MHz) |            |         |           | 829        | 836.5      | 844        |                     |
| 10              | QPSK       | 1       | 0         | 23.31      | 23.29      | 23.32      | 24.2                |
| 10              | QPSK       | 1       | 25        | 23.24      | 23.28      | 23.20      |                     |
| 10              | QPSK       | 1       | 49        | 23.30      | 23.23      | 23.18      |                     |
| 10              | QPSK       | 25      | 0         | 23.31      | 23.38      | 23.33      |                     |
| 10              | QPSK       | 25      | 12        | 23.42      | 23.37      | 23.43      | 24.2                |
| 10              | QPSK       | 25      | 25        | 23.38      | 23.40      | 23.37      |                     |
| 10              | QPSK       | 50      | 0         | 23.42      | 23.38      | 23.29      |                     |
| 10              | 16QAM      | 1       | 0         | 23.71      | 23.68      | 23.70      |                     |
| 10              | 16QAM      | 1       | 25        | 23.61      | 23.66      | 23.63      | 24.2                |
| 10              | 16QAM      | 1       | 49        | 23.65      | 23.61      | 23.49      |                     |
| 10              | 16QAM      | 25      | 0         | 22.86      | 22.87      | 22.84      |                     |
| 10              | 16QAM      | 25      | 12        | 22.96      | 22.88      | 22.97      |                     |
| 10              | 16QAM      | 25      | 25        | 22.89      | 22.92      | 22.82      | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.95      | 22.89      | 22.84      |                     |
| 10              | 64QAM      | 1       | 0         | 23.02      | 23.01      | 23.00      |                     |
| 10              | 64QAM      | 1       | 25        | 23.03      | 22.88      | 22.71      |                     |
| 10              | 64QAM      | 1       | 49        | 23.01      | 22.73      | 21.89      | 23.7                |
| 10              | 64QAM      | 25      | 0         | 21.90      | 21.94      | 21.88      |                     |
| 10              | 64QAM      | 25      | 12        | 22.00      | 21.90      | 21.70      |                     |
| 10              | 64QAM      | 25      | 25        | 21.94      | 21.93      | 21.02      |                     |
| 10              | 64QAM      | 50      | 0         | 21.99      | 21.90      | 21.55      | 22.7                |
| Channel         |            |         |           | 20425      | 20525      | 20625      | Time-up limit (dbm) |
| Frequency (MHz) |            |         |           | 826.5      | 836.5      | 846.5      |                     |
| 5               | QPSK       | 1       | 0         | 23.24      | 23.23      | 23.32      | 24.2                |
| 5               | QPSK       | 1       | 12        | 23.15      | 23.25      | 23.13      |                     |
| 5               | QPSK       | 1       | 24        | 23.27      | 23.13      | 23.18      |                     |
| 5               | QPSK       | 12      | 0         | 23.27      | 23.33      | 23.29      |                     |
| 5               | QPSK       | 12      | 7         | 23.34      | 23.31      | 23.43      | 24.2                |
| 5               | QPSK       | 12      | 13        | 23.37      | 23.36      | 23.29      |                     |
| 5               | QPSK       | 25      | 0         | 23.32      | 23.36      | 23.29      |                     |
| 5               | 16QAM      | 1       | 0         | 23.62      | 23.57      | 23.69      |                     |
| 5               | 16QAM      | 1       | 12        | 23.58      | 23.61      | 23.60      | 24.2                |
| 5               | 16QAM      | 1       | 24        | 23.56      | 23.54      | 23.44      |                     |
| 5               | 16QAM      | 12      | 0         | 22.76      | 22.77      | 22.83      |                     |
| 5               | 16QAM      | 12      | 7         | 22.88      | 22.83      | 22.87      |                     |
| 5               | 16QAM      | 12      | 13        | 22.82      | 22.90      | 22.81      | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.90      | 22.87      | 22.81      |                     |
| 5               | 64QAM      | 1       | 0         | 22.98      | 22.96      | 22.98      |                     |
| 5               | 64QAM      | 1       | 12        | 23.03      | 22.82      | 22.70      |                     |
| 5               | 64QAM      | 1       | 24        | 22.91      | 22.68      | 21.95      | 23.7                |
| 5               | 64QAM      | 12      | 0         | 21.88      | 21.92      | 21.79      |                     |
| 5               | 64QAM      | 12      | 7         | 21.95      | 21.82      | 21.67      |                     |
| 5               | 64QAM      | 12      | 13        | 21.92      | 21.93      | 21.02      |                     |
| 5               | 64QAM      | 25      | 0         | 21.95      | 21.89      | 21.54      | 22.7                |
| Channel         |            |         |           | 20415      | 20525      | 20635      | Time-up limit (dbm) |
| Frequency (MHz) |            |         |           | 825.5      | 836.5      | 847.5      |                     |
| 3               | QPSK       | 1       | 0         | 23.28      | 23.21      | 23.28      | 24.2                |
| 3               | QPSK       | 1       | 8         | 23.24      | 23.21      | 23.11      |                     |
| 3               | QPSK       | 1       | 14        | 23.30      | 23.13      | 23.11      |                     |
| 3               | QPSK       | 8       | 0         | 23.24      | 23.37      | 23.25      |                     |
| 3               | QPSK       | 8       | 4         | 23.39      | 23.37      | 23.39      | 24.2                |
| 3               | QPSK       | 8       | 7         | 23.29      | 23.34      | 23.34      |                     |
| 3               | QPSK       | 15      | 0         | 23.41      | 23.33      | 23.24      |                     |
| 3               | 16QAM      | 1       | 0         | 23.65      | 23.57      | 23.68      |                     |
| 3               | 16QAM      | 1       | 8         | 23.51      | 23.59      | 23.53      | 24.2                |
| 3               | 16QAM      | 1       | 14        | 23.62      | 23.55      | 23.39      |                     |
| 3               | 16QAM      | 8       | 0         | 22.83      | 22.78      | 22.77      |                     |
| 3               | 16QAM      | 8       | 4         | 22.96      | 22.79      | 22.95      |                     |
| 3               | 16QAM      | 8       | 7         | 22.80      | 22.87      | 22.73      | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.91      | 22.89      | 22.80      |                     |
| 3               | 64QAM      | 1       | 0         | 22.93      | 22.91      | 22.99      |                     |
| 3               | 64QAM      | 1       | 8         | 22.94      | 22.78      | 22.64      |                     |
| 3               | 64QAM      | 1       | 14        | 23.01      | 22.71      | 21.93      | 23.7                |
| 3               | 64QAM      | 8       | 0         | 21.82      | 21.91      | 21.86      |                     |
| 3               | 64QAM      | 8       | 4         | 22.00      | 21.82      | 21.70      |                     |
| 3               | 64QAM      | 8       | 7         | 21.89      | 21.88      | 21.01      |                     |
| 3               | 64QAM      | 15      | 0         | 21.95      | 21.82      | 21.54      | 22.7                |
| Channel         |            |         |           | 20407      | 20525      | 20643      | Time-up limit (dbm) |
| Frequency (MHz) |            |         |           | 824.7      | 836.5      | 848.3      |                     |
| 1.4             | QPSK       | 1       | 0         | 23.31      | 23.25      | 23.22      | 24.2                |
| 1.4             | QPSK       | 1       | 3         | 23.19      | 23.24      | 23.16      |                     |
| 1.4             | QPSK       | 1       | 5         | 23.29      | 23.20      | 23.16      |                     |
| 1.4             | QPSK       | 3       | 0         | 23.27      | 23.32      | 23.28      |                     |
| 1.4             | QPSK       | 3       | 1         | 23.35      | 23.31      | 23.36      | 24.2                |
| 1.4             | QPSK       | 3       | 3         | 23.30      | 23.32      | 23.30      |                     |
| 1.4             | QPSK       | 6       | 0         | 23.41      | 23.33      | 23.19      |                     |
| 1.4             | 16QAM      | 1       | 0         | 23.66      | 23.61      | 23.63      |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.58      | 23.60      | 23.57      | 24.2                |
| 1.4             | 16QAM      | 1       | 5         | 23.57      | 23.61      | 23.47      |                     |
| 1.4             | 16QAM      | 3       | 0         | 22.86      | 22.86      | 22.78      |                     |
| 1.4             | 16QAM      | 3       | 1         | 22.95      | 22.85      | 22.97      |                     |
| 1.4             | 16QAM      | 3       | 3         | 22.84      | 22.86      | 22.74      | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.92      | 22.89      | 22.81      |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.98      | 22.94      | 22.92      |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.95      | 22.81      | 22.67      |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.94      | 22.72      | 21.95      | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 21.85      | 21.84      | 21.78      |                     |
| 1.4             | 64QAM      | 3       | 1         | 21.97      | 21.84      | 21.77      |                     |
| 1.4             | 64QAM      | 3       | 3         | 21.85      | 21.94      | 21.72      |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.94      | 21.87      | 21.45      | 22.7                |



| Band 7          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Art 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20850           | 21100              | 21350            |                     |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |
| 20              | QPSK       | 1       | 0         | 24.06           | 24.10              | 24.04            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.12           | 24.13              | 24.01            |                     |
| 20              | QPSK       | 1       | 99        | 24.25           | 24.24              | 24.05            |                     |
| 20              | QPSK       | 50      | 0         | 23.18           | 23.18              | 23.17            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.32           | 23.19              | 23.21            |                     |
| 20              | QPSK       | 50      | 50        | 23.33           | 23.31              | 23.22            |                     |
| 20              | QPSK       | 100     | 0         | 23.28           | 23.17              | 23.18            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.42           | 23.44              | 23.38            |                     |
| 20              | 16QAM      | 1       | 49        | 23.49           | 23.48              | 23.36            |                     |
| 20              | 16QAM      | 1       | 99        | 23.53           | 23.52              | 23.39            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.17           | 22.16              | 22.20            |                     |
| 20              | 16QAM      | 50      | 24        | 22.31           | 22.21              | 22.20            |                     |
| 20              | 16QAM      | 50      | 50        | 22.31           | 22.32              | 22.18            | 22.7                |
| 20              | 16QAM      | 100     | 0         | 22.26           | 22.20              | 22.18            |                     |
| 20              | 64QAM      | 1       | 0         | 22.25           | 22.25              | 22.30            |                     |
| 20              | 64QAM      | 1       | 49        | 22.37           | 22.40              | 22.27            | 22.7                |
| 20              | 64QAM      | 1       | 99        | 22.39           | 22.42              | 22.33            |                     |
| 20              | 64QAM      | 50      | 0         | 21.20           | 21.21              | 21.22            |                     |
| 20              | 64QAM      | 50      | 24        | 21.31           | 21.24              | 21.24            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.32           | 21.32              | 21.20            |                     |
| 20              | 64QAM      | 100     | 0         | 21.30           | 21.21              | 21.18            |                     |
| Channel         |            |         |           | 20825           | 21100              | 21375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5          | 2535               | 2562.5           |                     |
| 15              | QPSK       | 1       | 0         | 24.14           | 24.13              | 24.09            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.16           | 24.15              | 24.05            |                     |
| 15              | QPSK       | 1       | 74        | 24.21           | 24.23              | 24.09            |                     |
| 15              | QPSK       | 36      | 0         | 23.24           | 23.21              | 23.19            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.34           | 23.26              | 23.23            |                     |
| 15              | QPSK       | 36      | 39        | 23.32           | 23.33              | 23.20            |                     |
| 15              | QPSK       | 75      | 0         | 23.28           | 23.24              | 23.20            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.44           | 23.47              | 23.39            |                     |
| 15              | 16QAM      | 1       | 37        | 23.51           | 23.53              | 23.37            |                     |
| 15              | 16QAM      | 1       | 74        | 23.55           | 23.55              | 23.41            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.27           | 22.21              | 22.19            |                     |
| 15              | 16QAM      | 36      | 20        | 22.31           | 22.23              | 22.20            |                     |
| 15              | 16QAM      | 36      | 39        | 22.29           | 22.33              | 22.17            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.30           | 22.22              | 22.16            |                     |
| 15              | 64QAM      | 1       | 0         | 22.26           | 22.30              | 22.35            |                     |
| 15              | 64QAM      | 1       | 37        | 22.41           | 22.43              | 22.29            | 22.7                |
| 15              | 64QAM      | 1       | 74        | 22.45           | 22.41              | 22.30            |                     |
| 15              | 64QAM      | 36      | 0         | 21.30           | 21.25              | 21.23            |                     |
| 15              | 64QAM      | 36      | 20        | 21.33           | 21.27              | 21.23            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.39           | 21.36              | 21.24            |                     |
| 15              | 64QAM      | 75      | 0         | 21.30           | 21.22              | 21.21            |                     |
| Channel         |            |         |           | 20800           | 21100              | 21400            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505            | 2535               | 2565             |                     |
| 10              | QPSK       | 1       | 0         | 24.13           | 24.09              | 24.00            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.11           | 24.11              | 23.99            |                     |
| 10              | QPSK       | 1       | 49        | 24.16           | 24.19              | 24.02            |                     |
| 10              | QPSK       | 25      | 0         | 23.26           | 23.23              | 23.16            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.31           | 23.24              | 23.20            |                     |
| 10              | QPSK       | 25      | 25        | 23.31           | 23.31              | 23.16            |                     |
| 10              | QPSK       | 50      | 0         | 23.30           | 23.24              | 23.17            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.50           | 23.46              | 23.39            |                     |
| 10              | 16QAM      | 1       | 25        | 23.50           | 23.52              | 23.37            |                     |
| 10              | 16QAM      | 1       | 49        | 23.53           | 23.56              | 23.41            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.27           | 22.16              | 22.14            |                     |
| 10              | 16QAM      | 25      | 12        | 22.30           | 22.24              | 22.17            |                     |
| 10              | 16QAM      | 25      | 25        | 22.28           | 22.30              | 22.15            | 22.7                |
| 10              | 16QAM      | 50      | 0         | 22.28           | 22.23              | 22.18            |                     |
| 10              | 64QAM      | 1       | 0         | 22.40           | 22.33              | 22.33            |                     |
| 10              | 64QAM      | 1       | 25        | 22.43           | 22.43              | 22.30            | 22.7                |
| 10              | 64QAM      | 1       | 49        | 22.43           | 22.45              | 22.26            |                     |
| 10              | 64QAM      | 25      | 0         | 21.29           | 21.25              | 21.18            |                     |
| 10              | 64QAM      | 25      | 12        | 21.34           | 21.29              | 21.23            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.33           | 21.33              | 21.20            |                     |
| 10              | 64QAM      | 50      | 0         | 21.34           | 21.28              | 21.23            |                     |
| Channel         |            |         |           | 20775           | 21100              | 21425            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5          | 2535               | 2567.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.14           | 24.10              | 24.03            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.18           | 24.15              | 24.03            |                     |
| 5               | QPSK       | 1       | 24        | 24.17           | 24.17              | 24.02            |                     |
| 5               | QPSK       | 12      | 0         | 23.27           | 23.25              | 23.12            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.29           | 23.21              | 23.10            |                     |
| 5               | QPSK       | 12      | 13        | 23.27           | 23.31              | 23.15            |                     |
| 5               | QPSK       | 25      | 0         | 23.28           | 23.23              | 23.13            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.48           | 23.45              | 23.34            |                     |
| 5               | 16QAM      | 1       | 12        | 23.47           | 23.51              | 23.35            |                     |
| 5               | 16QAM      | 1       | 24        | 23.54           | 23.50              | 23.40            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.29           | 22.25              | 22.17            |                     |
| 5               | 16QAM      | 12      | 7         | 22.28           | 22.28              | 22.16            |                     |
| 5               | 16QAM      | 12      | 13        | 22.31           | 22.30              | 22.13            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.27           | 22.23              | 22.15            |                     |
| 5               | 64QAM      | 1       | 0         | 22.42           | 22.38              | 22.29            |                     |
| 5               | 64QAM      | 1       | 12        | 22.40           | 22.44              | 22.28            | 22.7                |
| 5               | 64QAM      | 1       | 24        | 22.44           | 22.43              | 22.28            |                     |
| 5               | 64QAM      | 12      | 0         | 21.35           | 21.30              | 21.20            |                     |
| 5               | 64QAM      | 12      | 7         | 21.38           | 21.28              | 21.18            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.36           | 21.36              | 21.23            |                     |
| 5               | 64QAM      | 25      | 0         | 21.31           | 21.25              | 21.18            |                     |



| Band 12         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23050           | 23095              | 23150            |                     |
| Frequency (MHz) |            |         |           | 704             | 707.5              | 711              |                     |
| 10              | QPSK       | 1       | 0         | 23.51           | 23.48              | 23.48            | 24.6                |
| 10              | QPSK       | 1       | 25        | 23.43           | 23.49              | 23.49            |                     |
| 10              | QPSK       | 1       | 49        | 23.54           | 23.58              | 23.50            |                     |
| 10              | QPSK       | 25      | 0         | 23.59           | 23.60              | 23.61            |                     |
| 10              | QPSK       | 25      | 12        | 23.67           | 23.61              | 23.60            | 24.1                |
| 10              | QPSK       | 25      | 25        | 23.68           | 23.66              | 23.65            |                     |
| 10              | QPSK       | 50      | 0         | 23.66           | 23.59              | 23.60            |                     |
| 10              | 16QAM      | 1       | 0         | 23.87           | 23.80              | 23.80            |                     |
| 10              | 16QAM      | 1       | 25        | 23.86           | 23.86              | 23.87            | 24.1                |
| 10              | 16QAM      | 1       | 49        | 23.96           | 23.89              | 23.87            |                     |
| 10              | 16QAM      | 25      | 0         | 22.87           | 22.72              | 22.71            |                     |
| 10              | 16QAM      | 25      | 12        | 22.78           | 22.72              | 22.70            |                     |
| 10              | 16QAM      | 25      | 25        | 22.71           | 22.77              | 22.78            | 23.1                |
| 10              | 16QAM      | 50      | 0         | 22.75           | 22.69              | 22.68            |                     |
| 10              | 64QAM      | 1       | 0         | 22.83           | 22.76              | 22.85            |                     |
| 10              | 64QAM      | 1       | 25        | 22.67           | 22.92              | 22.73            |                     |
| 10              | 64QAM      | 1       | 49        | 22.99           | 22.93              | 22.87            | 23.1                |
| 10              | 64QAM      | 25      | 0         | 21.68           | 21.73              | 21.74            |                     |
| 10              | 64QAM      | 25      | 12        | 21.71           | 21.76              | 21.73            |                     |
| 10              | 64QAM      | 25      | 25        | 21.77           | 21.78              | 21.78            |                     |
| 10              | 64QAM      | 50      | 0         | 21.74           | 21.72              | 21.72            | 22.1                |
| Channel         |            |         |           | 23035           | 23095              | 23155            |                     |
| Frequency (MHz) |            |         |           | 701.5           | 707.5              | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 23.51           | 23.47              | 23.47            | 24.6                |
| 5               | QPSK       | 1       | 12        | 23.46           | 23.58              | 23.57            |                     |
| 5               | QPSK       | 1       | 24        | 23.48           | 23.54              | 23.50            |                     |
| 5               | QPSK       | 12      | 0         | 23.62           | 23.59              | 23.60            |                     |
| 5               | QPSK       | 12      | 7         | 23.60           | 23.56              | 23.65            | 24.1                |
| 5               | QPSK       | 12      | 13        | 23.58           | 23.61              | 23.58            |                     |
| 5               | QPSK       | 25      | 0         | 23.61           | 23.58              | 23.57            |                     |
| 5               | 16QAM      | 1       | 0         | 23.84           | 23.83              | 23.80            |                     |
| 5               | 16QAM      | 1       | 12        | 23.82           | 23.83              | 23.83            | 24.1                |
| 5               | 16QAM      | 1       | 24        | 23.86           | 23.86              | 23.85            |                     |
| 5               | 16QAM      | 12      | 0         | 22.77           | 22.77              | 22.73            |                     |
| 5               | 16QAM      | 12      | 7         | 22.72           | 22.72              | 22.78            | 23.1                |
| 5               | 16QAM      | 12      | 13        | 22.71           | 22.71              | 22.73            |                     |
| 5               | 16QAM      | 25      | 0         | 22.74           | 22.76              | 22.67            |                     |
| 5               | 64QAM      | 1       | 0         | 22.57           | 22.75              | 22.80            |                     |
| 5               | 64QAM      | 1       | 12        | 22.78           | 22.90              | 22.90            | 23.1                |
| 5               | 64QAM      | 1       | 24        | 22.77           | 22.88              | 22.85            |                     |
| 5               | 64QAM      | 12      | 0         | 21.60           | 21.80              | 21.81            |                     |
| 5               | 64QAM      | 12      | 7         | 21.75           | 21.74              | 21.80            |                     |
| 5               | 64QAM      | 12      | 13        | 21.74           | 21.80              | 21.77            | 22.1                |
| 5               | 64QAM      | 25      | 0         | 21.75           | 21.70              | 21.73            |                     |
| Channel         |            |         |           | 23055           | 23095              | 23155            |                     |
| Frequency (MHz) |            |         |           | 700.5           | 707.5              | 714.5            |                     |
| 3               | QPSK       | 1       | 0         | 23.59           | 23.52              | 23.52            | 24.6                |
| 3               | QPSK       | 1       | 8         | 23.57           | 23.59              | 23.54            |                     |
| 3               | QPSK       | 1       | 14        | 23.48           | 23.54              | 23.50            |                     |
| 3               | QPSK       | 8       | 0         | 23.61           | 23.59              | 23.56            |                     |
| 3               | QPSK       | 8       | 4         | 23.60           | 23.58              | 23.67            | 24.1                |
| 3               | QPSK       | 8       | 7         | 23.53           | 23.63              | 23.59            |                     |
| 3               | QPSK       | 15      | 0         | 23.60           | 23.58              | 23.59            |                     |
| 3               | 16QAM      | 1       | 0         | 23.92           | 23.85              | 23.89            |                     |
| 3               | 16QAM      | 1       | 8         | 23.89           | 23.90              | 23.92            | 24.1                |
| 3               | 16QAM      | 1       | 14        | 23.79           | 23.87              | 23.81            |                     |
| 3               | 16QAM      | 8       | 0         | 22.78           | 22.77              | 22.74            |                     |
| 3               | 16QAM      | 8       | 4         | 22.75           | 22.78              | 22.81            | 23.1                |
| 3               | 16QAM      | 8       | 7         | 22.70           | 22.78              | 22.76            |                     |
| 3               | 16QAM      | 15      | 0         | 22.75           | 22.70              | 22.71            |                     |
| 3               | 64QAM      | 1       | 0         | 22.62           | 22.87              | 22.85            |                     |
| 3               | 64QAM      | 1       | 8         | 22.66           | 22.92              | 22.94            | 23.1                |
| 3               | 64QAM      | 1       | 14        | 22.75           | 22.96              | 22.82            |                     |
| 3               | 64QAM      | 8       | 0         | 21.62           | 21.75              | 21.77            |                     |
| 3               | 64QAM      | 8       | 4         | 21.70           | 21.74              | 21.81            |                     |
| 3               | 64QAM      | 8       | 7         | 21.74           | 21.75              | 21.72            | 22.1                |
| 3               | 64QAM      | 15      | 0         | 21.60           | 21.70              | 21.70            |                     |
| Channel         |            |         |           | 23017           | 23095              | 23173            |                     |
| Frequency (MHz) |            |         |           | 699.7           | 707.5              | 715.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 23.46           | 23.42              | 23.44            | 24.6                |
| 1.4             | QPSK       | 1       | 3         | 23.49           | 23.50              | 23.40            |                     |
| 1.4             | QPSK       | 1       | 5         | 23.40           | 23.41              | 23.40            |                     |
| 1.4             | QPSK       | 3       | 0         | 23.47           | 23.45              | 23.44            |                     |
| 1.4             | QPSK       | 3       | 1         | 23.51           | 23.47              | 23.45            | 24.1                |
| 1.4             | QPSK       | 3       | 3         | 23.45           | 23.45              | 23.44            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.50           | 23.57              | 23.49            |                     |
| 1.4             | 16QAM      | 1       | 0         | 23.78           | 23.73              | 23.75            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.82           | 23.86              | 23.81            | 24.1                |
| 1.4             | 16QAM      | 1       | 5         | 23.71           | 23.78              | 23.73            |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.57           | 23.53              | 23.50            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.61           | 23.57              | 23.57            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.51           | 23.54              | 23.48            | 23.1                |
| 1.4             | 16QAM      | 6       | 0         | 22.68           | 22.70              | 22.65            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.59           | 22.73              | 22.77            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.71           | 22.85              | 22.81            |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.70           | 22.79              | 22.75            | 23.1                |
| 1.4             | 64QAM      | 3       | 0         | 22.58           | 22.73              | 22.73            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.64           | 22.78              | 22.80            |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.63           | 22.75              | 22.74            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.48           | 21.67              | 21.63            | 22.1                |

| Band 13         |            |         |           |               |                  |                |                     |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|
| Ant 1           |            |         |           |               |                  |                |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. | Power Middle Ch. | Power High Ch. | Tune-up limit (dbm) |
| Channel         |            |         |           | 23230         |                  |                |                     |
| Frequency (MHz) |            |         |           | 782           |                  |                |                     |
| 10              | QPSK       | 1       | 0         |               | 23.24            |                | 24.4                |
| 10              | QPSK       | 1       | 25        |               | 23.22            |                |                     |
| 10              | QPSK       | 1       | 49        |               | 23.30            |                |                     |
| 10              | QPSK       | 25      | 0         |               | 23.11            |                | 24.2                |
| 10              | QPSK       | 25      | 12        |               | 23.20            |                |                     |
| 10              | QPSK       | 25      | 25        |               | 23.15            |                |                     |
| 10              | QPSK       | 50      | 0         |               | 23.52            |                | 24.2                |
| 10              | 16QAM      | 1       | 0         |               | 23.69            |                |                     |
| 10              | 16QAM      | 1       | 25        |               | 23.66            |                |                     |
| 10              | 16QAM      | 1       | 49        |               | 23.68            |                | 23.2                |
| 10              | 16QAM      | 25      | 0         |               | 22.43            |                |                     |
| 10              | 16QAM      | 25      | 12        |               | 22.50            |                |                     |
| 10              | 16QAM      | 25      | 25        |               | 22.46            |                | 23.2                |
| 10              | 16QAM      | 50      | 0         |               | 22.53            |                |                     |
| 10              | 64QAM      | 1       | 0         |               | 22.60            |                |                     |
| 10              | 64QAM      | 1       | 25        |               | 22.59            |                | 23.2                |
| 10              | 64QAM      | 1       | 49        |               | 22.63            |                |                     |
| 10              | 64QAM      | 25      | 0         |               | 21.46            |                |                     |
| 10              | 64QAM      | 25      | 12        |               | 21.56            |                | 22.2                |
| 10              | 64QAM      | 25      | 25        |               | 21.46            |                |                     |
| 10              | 64QAM      | 50      | 0         |               | 21.57            |                |                     |
| Channel         |            |         |           | 23205         | 23230            | 23255          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 779.5         | 782              | 784.5          |                     |
| 5               | QPSK       | 1       | 0         | 23.52         | 23.51            | 23.52          | 24.4                |
| 5               | QPSK       | 1       | 12        | 23.57         | 23.53            | 23.53          |                     |
| 5               | QPSK       | 1       | 24        | 23.57         | 23.52            | 23.60          |                     |
| 5               | QPSK       | 12      | 0         | 23.43         | 23.42            | 23.40          | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.50         | 23.48            | 23.49          |                     |
| 5               | QPSK       | 12      | 13        | 23.48         | 23.46            | 23.47          |                     |
| 5               | QPSK       | 25      | 0         | 23.50         | 23.44            | 23.43          | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.59         | 23.61            | 23.58          |                     |
| 5               | 16QAM      | 1       | 12        | 23.57         | 23.55            | 23.54          |                     |
| 5               | 16QAM      | 1       | 24        | 23.63         | 23.64            | 23.65          | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.50         | 22.45            | 22.47          |                     |
| 5               | 16QAM      | 12      | 7         | 22.52         | 22.47            | 22.52          |                     |
| 5               | 16QAM      | 12      | 13        | 22.49         | 22.49            | 22.51          | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.55         | 22.49            | 22.49          |                     |
| 5               | 64QAM      | 1       | 0         | 22.49         | 22.48            | 22.44          |                     |
| 5               | 64QAM      | 1       | 12        | 22.50         | 22.48            | 22.53          | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.50         | 22.58            | 22.54          |                     |
| 5               | 64QAM      | 12      | 0         | 21.59         | 21.50            | 21.50          |                     |
| 5               | 64QAM      | 12      | 7         | 21.57         | 21.51            | 21.53          | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.57         | 21.52            | 21.53          |                     |
| 5               | 64QAM      | 25      | 0         | 21.55         | 21.52            | 21.50          |                     |

| Band 14         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ant 1           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23330          |                   |                 |                     |
| Frequency (MHz) |            |         |           | 793            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 23.64             |                 | 24.6                |
| 10              | QPSK       | 1       | 25        |                | 23.63             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 23.60             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.69             |                 | 24.6                |
| 10              | QPSK       | 25      | 12        |                | 23.68             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.73             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.68             |                 | 24.6                |
| 10              | 16QAM      | 1       | 0         |                | 24.12             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 24.04             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.99             |                 | 23.6                |
| 10              | 16QAM      | 25      | 0         |                | 22.79             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.80             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.83             |                 | 23.6                |
| 10              | 16QAM      | 50      | 0         |                | 22.80             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.51             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.49             |                 | 23.6                |
| 10              | 64QAM      | 1       | 49        |                | 22.99             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.25             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.23             |                 | 22.6                |
| 10              | 64QAM      | 25      | 25        |                | 21.58             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.34             |                 |                     |
| Channel         |            |         |           | 23305          | 23330             | 23355           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5          | 793               | 795.5           |                     |
| 5               | QPSK       | 1       | 0         | 23.66          | 23.57             | 23.59           | 24.6                |
| 5               | QPSK       | 1       | 12        | 23.73          | 23.72             | 23.67           |                     |
| 5               | QPSK       | 1       | 24        | 23.69          | 23.63             | 23.61           |                     |
| 5               | QPSK       | 12      | 0         | 23.77          | 23.71             | 23.70           | 24.6                |
| 5               | QPSK       | 12      | 7         | 23.76          | 23.70             | 23.76           |                     |
| 5               | QPSK       | 12      | 13        | 23.74          | 23.73             | 23.70           |                     |
| 5               | QPSK       | 25      | 0         | 23.75          | 23.65             | 23.63           | 24.6                |
| 5               | 16QAM      | 1       | 0         | 23.96          | 23.86             | 23.90           |                     |
| 5               | 16QAM      | 1       | 12        | 23.99          | 23.96             | 23.99           |                     |
| 5               | 16QAM      | 1       | 24        | 23.95          | 23.96             | 23.93           | 23.6                |
| 5               | 16QAM      | 12      | 0         | 22.88          | 22.79             | 22.85           |                     |
| 5               | 16QAM      | 12      | 7         | 22.92          | 22.84             | 22.90           |                     |
| 5               | 16QAM      | 12      | 13        | 22.86          | 22.80             | 22.85           | 23.6                |
| 5               | 16QAM      | 25      | 0         | 22.68          | 22.79             | 22.61           |                     |
| 5               | 64QAM      | 1       | 0         | 22.47          | 22.26             | 22.37           |                     |
| 5               | 64QAM      | 1       | 12        | 22.31          | 22.15             | 22.60           | 23.6                |
| 5               | 64QAM      | 1       | 24        | 22.06          | 22.37             | 23.00           |                     |
| 5               | 64QAM      | 12      | 0         | 21.39          | 21.08             | 21.32           |                     |
| 5               | 64QAM      | 12      | 7         | 21.26          | 21.11             | 21.67           | 22.6                |
| 5               | 64QAM      | 12      | 13        | 21.10          | 21.23             | 21.87           |                     |
| 5               | 64QAM      | 25      | 0         | 21.15          | 21.06             | 21.63           |                     |



| Band 17         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |
| 10              | QPSK       | 1       | 0         | 23.48           | 23.45              | 23.46            | 24.6                |
| 10              | QPSK       | 1       | 25        | 23.48           | 23.52              | 23.51            |                     |
| 10              | QPSK       | 1       | 49        | 23.53           | 23.55              | 23.53            |                     |
| 10              | QPSK       | 25      | 0         | 23.55           | 23.54              | 23.55            |                     |
| 10              | QPSK       | 25      | 12        | 23.72           | 23.94              | 23.82            | 24.6                |
| 10              | QPSK       | 25      | 25        | 23.71           | 23.71              | 23.70            |                     |
| 10              | QPSK       | 50      | 0         | 23.62           | 23.62              | 23.61            |                     |
| 10              | 16QAM      | 1       | 0         | 23.86           | 23.83              | 23.81            |                     |
| 10              | 16QAM      | 1       | 25        | 23.93           | 23.96              | 23.94            | 24.6                |
| 10              | 16QAM      | 1       | 49        | 23.94           | 23.83              | 23.89            |                     |
| 10              | 16QAM      | 25      | 0         | 22.85           | 22.94              | 22.85            |                     |
| 10              | 16QAM      | 25      | 12        | 22.79           | 22.72              | 22.72            |                     |
| 10              | 16QAM      | 25      | 25        | 22.77           | 22.79              | 22.79            | 23.6                |
| 10              | 16QAM      | 50      | 0         | 22.71           | 22.70              | 22.68            |                     |
| 10              | 64QAM      | 1       | 0         | 22.59           | 22.81              | 22.83            |                     |
| 10              | 64QAM      | 1       | 25        | 22.76           | 22.73              | 22.67            |                     |
| 10              | 64QAM      | 1       | 49        | 22.85           | 22.89              | 22.74            | 23.6                |
| 10              | 64QAM      | 25      | 0         | 21.51           | 21.45              | 21.50            |                     |
| 10              | 64QAM      | 25      | 12        | 21.65           | 21.57              | 21.63            |                     |
| 10              | 64QAM      | 25      | 25        | 21.67           | 21.77              | 21.74            |                     |
| 10              | 64QAM      | 50      | 0         | 21.63           | 21.70              | 21.63            | 22.6                |
| Channel         |            |         |           | 23785           | 23790              | 23825            |                     |
| Frequency (MHz) |            |         |           | 706.5           | 710                | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 23.48           | 23.47              | 23.50            | 24.6                |
| 5               | QPSK       | 1       | 12        | 23.56           | 23.63              | 23.59            |                     |
| 5               | QPSK       | 1       | 24        | 23.63           | 23.60              | 23.59            |                     |
| 5               | QPSK       | 12      | 0         | 23.59           | 23.63              | 23.57            |                     |
| 5               | QPSK       | 12      | 7         | 23.69           | 23.63              | 23.68            | 24.6                |
| 5               | QPSK       | 12      | 13        | 23.65           | 23.65              | 23.65            |                     |
| 5               | QPSK       | 25      | 0         | 23.61           | 23.59              | 23.66            |                     |
| 5               | 16QAM      | 1       | 0         | 23.62           | 23.63              | 23.62            |                     |
| 5               | 16QAM      | 1       | 12        | 23.90           | 23.87              | 23.87            | 24.6                |
| 5               | 16QAM      | 1       | 24        | 23.94           | 23.92              | 23.92            |                     |
| 5               | 16QAM      | 12      | 0         | 22.72           | 22.75              | 22.69            |                     |
| 5               | 16QAM      | 12      | 7         | 22.78           | 22.73              | 22.78            |                     |
| 5               | 16QAM      | 12      | 13        | 22.77           | 22.79              | 22.77            | 23.6                |
| 5               | 16QAM      | 25      | 0         | 22.76           | 22.74              | 22.80            |                     |
| 5               | 64QAM      | 1       | 0         | 22.37           | 22.57              | 22.85            |                     |
| 5               | 64QAM      | 1       | 12        | 22.78           | 22.71              | 22.90            |                     |
| 5               | 64QAM      | 1       | 24        | 22.65           | 22.64              | 22.63            | 22.6                |
| 5               | 64QAM      | 12      | 0         | 21.60           | 21.59              | 21.79            |                     |
| 5               | 64QAM      | 12      | 7         | 21.62           | 21.68              | 21.85            |                     |
| 5               | 64QAM      | 12      | 13        | 21.72           | 21.62              | 21.79            |                     |
| 5               | 64QAM      | 25      | 0         | 21.57           | 21.50              | 21.73            |                     |



| Band 25         |            |         |           |                             |                                |                              |                        |  |  |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|------------------------|--|--|
| Annex           |            |         |           |                             |                                |                              |                        |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch. /<br>26140 | Power<br>Middle Ch. /<br>26340 | Power<br>High Ch. /<br>26590 | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 26140                       | 26340                          | 26590                        |                        |  |  |
| Frequency (MHz) |            |         |           | 1860                        | 1880                           | 1905                         |                        |  |  |
| 20              | QPSK       | 1       | 0         | 24.79                       | 24.78                          | 24.93                        | 25.7                   |  |  |
| 20              | QPSK       | 1       | 49        | 24.72                       | 24.74                          | 24.80                        |                        |  |  |
| 20              | QPSK       | 1       | 99        | 24.65                       | 24.74                          | 24.39                        |                        |  |  |
| 20              | QPSK       | 50      | 0         | 23.83                       | 23.89                          | 23.94                        |                        |  |  |
| 20              | QPSK       | 50      | 24        | 23.88                       | 23.99                          | 24.01                        | 24.7                   |  |  |
| 20              | QPSK       | 50      | 50        | 23.82                       | 23.93                          | 24.00                        |                        |  |  |
| 20              | QPSK       | 100     | 0         | 23.89                       | 23.97                          | 23.98                        |                        |  |  |
| 20              | 16QAM      | 1       | 0         | 24.14                       | 24.15                          | 24.16                        |                        |  |  |
| 20              | 16QAM      | 1       | 49        | 24.07                       | 24.11                          | 24.17                        | 24.7                   |  |  |
| 20              | 16QAM      | 1       | 99        | 23.99                       | 24.10                          | 23.73                        |                        |  |  |
| 20              | 16QAM      | 50      | 0         | 22.84                       | 22.92                          | 22.95                        |                        |  |  |
| 20              | 16QAM      | 50      | 24        | 22.89                       | 22.99                          | 22.95                        |                        |  |  |
| 20              | 16QAM      | 50      | 50        | 22.85                       | 22.94                          | 23.02                        | 23.7                   |  |  |
| 20              | 16QAM      | 100     | 0         | 22.87                       | 22.95                          | 22.93                        |                        |  |  |
| 20              | 64QAM      | 1       | 0         | 23.00                       | 22.99                          | 22.68                        |                        |  |  |
| 20              | 64QAM      | 1       | 49        | 22.97                       | 22.98                          | 22.58                        |                        |  |  |
| 20              | 64QAM      | 1       | 99        | 22.84                       | 22.99                          | 21.67                        | 23.7                   |  |  |
| 20              | 64QAM      | 50      | 0         | 21.87                       | 21.93                          | 21.40                        |                        |  |  |
| 20              | 64QAM      | 50      | 24        | 21.91                       | 22.00                          | 21.57                        |                        |  |  |
| 20              | 64QAM      | 50      | 50        | 21.79                       | 21.97                          | 21.23                        |                        |  |  |
| 20              | 64QAM      | 100     | 0         | 21.89                       | 22.01                          | 21.26                        | 22.7                   |  |  |
| Channel         |            |         |           | 26115                       | 26340                          | 26615                        |                        |  |  |
| Frequency (MHz) |            |         |           | 1857.5                      | 1880                           | 1907.5                       |                        |  |  |
| 15              | QPSK       | 1       | 0         | 24.82                       | 24.87                          | 24.89                        | 25.7                   |  |  |
| 15              | QPSK       | 1       | 37        | 24.75                       | 24.80                          | 24.87                        |                        |  |  |
| 15              | QPSK       | 1       | 74        | 24.72                       | 24.82                          | 24.39                        |                        |  |  |
| 15              | QPSK       | 36      | 0         | 23.86                       | 23.93                          | 23.99                        |                        |  |  |
| 15              | QPSK       | 36      | 20        | 23.89                       | 24.02                          | 24.06                        | 24.7                   |  |  |
| 15              | QPSK       | 36      | 39        | 23.83                       | 23.96                          | 23.88                        |                        |  |  |
| 15              | QPSK       | 75      | 0         | 23.89                       | 23.90                          | 23.95                        |                        |  |  |
| 15              | 16QAM      | 1       | 0         | 24.07                       | 24.15                          | 24.19                        |                        |  |  |
| 15              | 16QAM      | 1       | 37        | 24.12                       | 24.14                          | 24.22                        | 24.7                   |  |  |
| 15              | 16QAM      | 1       | 74        | 24.05                       | 24.12                          | 23.75                        |                        |  |  |
| 15              | 16QAM      | 36      | 0         | 22.86                       | 22.95                          | 22.97                        |                        |  |  |
| 15              | 16QAM      | 36      | 20        | 22.93                       | 23.01                          | 23.05                        |                        |  |  |
| 15              | 16QAM      | 36      | 39        | 22.84                       | 22.96                          | 23.00                        | 23.7                   |  |  |
| 15              | 16QAM      | 75      | 0         | 22.90                       | 22.93                          | 22.96                        |                        |  |  |
| 15              | 64QAM      | 1       | 0         | 23.03                       | 23.00                          | 22.45                        |                        |  |  |
| 15              | 64QAM      | 1       | 37        | 22.99                       | 23.06                          | 22.62                        |                        |  |  |
| 15              | 64QAM      | 1       | 74        | 22.74                       | 23.02                          | 21.88                        | 22.7                   |  |  |
| 15              | 64QAM      | 36      | 0         | 21.92                       | 21.98                          | 21.61                        |                        |  |  |
| 15              | 64QAM      | 36      | 20        | 21.94                       | 22.03                          | 21.57                        |                        |  |  |
| 15              | 64QAM      | 36      | 39        | 21.77                       | 22.00                          | 21.24                        |                        |  |  |
| 15              | 64QAM      | 75      | 0         | 21.91                       | 21.92                          | 21.31                        | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 26090                       | 26340                          | 26640                        |                        |  |  |
| Frequency (MHz) |            |         |           | 1855                        | 1880                           | 1910                         |                        |  |  |
| 10              | QPSK       | 1       | 0         | 24.77                       | 24.76                          | 24.87                        | 25.7                   |  |  |
| 10              | QPSK       | 1       | 25        | 24.70                       | 24.79                          | 24.86                        |                        |  |  |
| 10              | QPSK       | 1       | 49        | 24.74                       | 24.79                          | 24.33                        |                        |  |  |
| 10              | QPSK       | 25      | 0         | 23.90                       | 23.86                          | 23.93                        |                        |  |  |
| 10              | QPSK       | 25      | 12        | 23.95                       | 23.97                          | 23.96                        | 24.7                   |  |  |
| 10              | QPSK       | 25      | 25        | 23.92                       | 23.97                          | 23.73                        |                        |  |  |
| 10              | QPSK       | 50      | 0         | 23.93                       | 23.97                          | 23.87                        |                        |  |  |
| 10              | 16QAM      | 1       | 0         | 24.14                       | 24.15                          | 24.22                        |                        |  |  |
| 10              | 16QAM      | 1       | 25        | 24.13                       | 24.18                          | 24.23                        | 24.7                   |  |  |
| 10              | 16QAM      | 1       | 49        | 24.11                       | 24.17                          | 23.69                        |                        |  |  |
| 10              | 16QAM      | 25      | 0         | 22.83                       | 22.86                          | 22.93                        |                        |  |  |
| 10              | 16QAM      | 25      | 12        | 22.92                       | 23.00                          | 22.98                        |                        |  |  |
| 10              | 16QAM      | 25      | 25        | 22.89                       | 22.93                          | 22.91                        | 23.7                   |  |  |
| 10              | 16QAM      | 50      | 0         | 22.92                       | 22.97                          | 22.96                        |                        |  |  |
| 10              | 64QAM      | 1       | 0         | 23.01                       | 22.97                          | 22.67                        |                        |  |  |
| 10              | 64QAM      | 1       | 25        | 23.08                       | 23.13                          | 22.41                        |                        |  |  |
| 10              | 64QAM      | 1       | 49        | 22.88                       | 23.09                          | 21.84                        | 23.7                   |  |  |
| 10              | 64QAM      | 25      | 0         | 21.94                       | 21.99                          | 21.52                        |                        |  |  |
| 10              | 64QAM      | 25      | 12        | 21.98                       | 22.00                          | 21.37                        |                        |  |  |
| 10              | 64QAM      | 25      | 25        | 21.94                       | 22.00                          | 21.06                        |                        |  |  |
| 10              | 64QAM      | 50      | 0         | 21.96                       | 22.02                          | 21.17                        | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 26065                       | 26340                          | 26665                        |                        |  |  |
| Frequency (MHz) |            |         |           | 1852.5                      | 1880                           | 1912.5                       |                        |  |  |
| 5               | QPSK       | 1       | 0         | 24.80                       | 24.75                          | 24.92                        | 25.7                   |  |  |
| 5               | QPSK       | 1       | 12        | 24.84                       | 24.80                          | 24.56                        |                        |  |  |
| 5               | QPSK       | 1       | 24        | 24.81                       | 24.88                          | 24.29                        |                        |  |  |
| 5               | QPSK       | 12      | 0         | 23.88                       | 23.91                          | 23.89                        |                        |  |  |
| 5               | QPSK       | 12      | 7         | 23.96                       | 23.99                          | 23.76                        | 24.7                   |  |  |
| 5               | QPSK       | 12      | 13        | 23.96                       | 23.99                          | 23.60                        |                        |  |  |
| 5               | QPSK       | 25      | 0         | 23.93                       | 23.93                          | 23.64                        |                        |  |  |
| 5               | 16QAM      | 1       | 0         | 24.22                       | 24.11                          | 24.18                        |                        |  |  |
| 5               | 16QAM      | 1       | 12        | 24.13                       | 24.19                          | 23.93                        | 24.7                   |  |  |
| 5               | 16QAM      | 1       | 24        | 24.15                       | 24.18                          | 23.70                        |                        |  |  |
| 5               | 16QAM      | 12      | 0         | 22.88                       | 22.95                          | 23.01                        |                        |  |  |
| 5               | 16QAM      | 12      | 7         | 22.93                       | 23.02                          | 22.88                        |                        |  |  |
| 5               | 16QAM      | 12      | 13        | 22.98                       | 23.02                          | 22.75                        | 23.7                   |  |  |
| 5               | 16QAM      | 25      | 0         | 22.96                       | 22.97                          | 22.80                        |                        |  |  |
| 5               | 64QAM      | 1       | 0         | 23.07                       | 23.01                          | 22.33                        |                        |  |  |
| 5               | 64QAM      | 1       | 12        | 23.05                       | 23.07                          | 21.98                        |                        |  |  |
| 5               | 64QAM      | 1       | 24        | 23.06                       | 23.11                          | 21.75                        | 23.7                   |  |  |
| 5               | 64QAM      | 12      | 0         | 21.95                       | 21.98                          | 21.17                        |                        |  |  |
| 5               | 64QAM      | 12      | 7         | 22.01                       | 22.06                          | 21.03                        |                        |  |  |
| 5               | 64QAM      | 12      | 13        | 22.03                       | 22.06                          | 20.88                        |                        |  |  |
| 5               | 64QAM      | 25      | 0         | 21.93                       | 22.00                          | 20.98                        | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 26055                       | 26340                          | 26675                        |                        |  |  |
| Frequency (MHz) |            |         |           | 1851.5                      | 1880                           | 1913.5                       |                        |  |  |
| 3               | QPSK       | 1       | 0         | 24.72                       | 24.71                          | 24.65                        | 25.7                   |  |  |
| 3               | QPSK       | 1       | 8         | 24.88                       | 24.91                          | 24.53                        |                        |  |  |
| 3               | QPSK       | 1       | 14        | 24.85                       | 24.90                          | 24.29                        |                        |  |  |
| 3               | QPSK       | 8       | 0         | 23.87                       | 23.89                          | 23.71                        |                        |  |  |
| 3               | QPSK       | 8       | 4         | 23.92                       | 23.96                          | 23.66                        | 24.7                   |  |  |
| 3               | QPSK       | 8       | 7         | 23.96                       | 23.97                          | 23.54                        |                        |  |  |
| 3               | QPSK       | 15      | 0         | 23.93                       | 23.95                          | 23.58                        |                        |  |  |
| 3               | 16QAM      | 1       | 0         | 24.09                       | 24.01                          | 23.89                        |                        |  |  |
| 3               | 16QAM      | 1       | 8         | 24.20                       | 24.26                          | 23.84                        | 24.7                   |  |  |
| 3               | 16QAM      | 1       | 14        | 24.21                       | 24.24                          | 23.63                        |                        |  |  |
| 3               | 16QAM      | 8       | 0         | 22.92                       | 22.95                          | 22.83                        |                        |  |  |
| 3               | 16QAM      | 8       | 4         | 23.03                       | 23.04                          | 22.76                        |                        |  |  |
| 3               | 16QAM      | 8       | 7         | 23.01                       | 23.02                          | 22.67                        | 23.7                   |  |  |
| 3               | 16QAM      | 15      | 0         | 22.97                       | 22.97                          | 22.70                        |                        |  |  |
| 3               | 64QAM      | 1       | 0         | 22.95                       | 22.96                          | 22.01                        |                        |  |  |
| 3               | 64QAM      | 1       | 8         | 23.12                       | 23.20                          | 21.98                        |                        |  |  |
| 3               | 64QAM      | 1       | 14        | 23.11                       | 23.16                          | 21.75                        | 23.7                   |  |  |
| 3               | 64QAM      | 8       | 0         | 21.93                       | 22.00                          | 20.95                        |                        |  |  |
| 3               | 64QAM      | 8       | 4         | 21.99                       | 22.07                          | 20.94                        |                        |  |  |
| 3               | 64QAM      | 8       | 7         | 22.00                       | 22.06                          | 20.84                        |                        |  |  |
| 3               | 64QAM      | 15      | 0         | 21.94                       | 21.96                          | 20.88                        | Tune-up<br>limit (dBm) |  |  |
| Channel         |            |         |           | 26047                       | 26340                          | 26683                        |                        |  |  |
| Frequency (MHz) |            |         |           | 1850.7                      | 1880                           | 1914.3                       |                        |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.71                       | 24.73                          | 24.37                        | 25.7                   |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.80                       | 24.83                          | 24.31                        |                        |  |  |
| 1.4             | QPSK       | 1       | 5         | 24.79                       | 24.84                          | 24.20                        |                        |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.78                       | 24.81                          | 24.32                        |                        |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.82                       | 24.83                          | 24.33                        | 24.7                   |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.77                       | 24.83                          | 24.24                        |                        |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.85                       | 23.91                          | 23.41                        |                        |  |  |
| 1.4             | 16QAM      | 1       | 0         | 24.05                       | 24.05                          | 23.64                        |                        |  |  |
| 1.4             | 16QAM      | 1       | 3         | 24.12                       | 24.17                          | 23.64                        | 24.7                   |  |  |
| 1.4             | 16QAM      | 1       | 5         | 24.07                       | 24.12                          | 23.54                        |                        |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.81                       | 23.87                          | 23.49                        |                        |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.88                       | 23.93                          | 23.48                        | 23.7                   |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.84                       | 23.93                          | 23.42                        |                        |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.93                       | 22.94                          | 22.59                        |                        |  |  |
| 1.4             | 16QAM      | 6       | 2         | 22.97                       | 22.99                          | 22.78                        |                        |  |  |
| 1.4             | 64QAM      | 1       | 0         | 23.08                       | 23.12                          | 21.71                        | 23.7                   |  |  |
| 1.4             | 64QAM      | 1       | 5         | 23.03                       | 23.06                          | 21.72                        |                        |  |  |
| 1.4             | 64QAM      | 3       | 1         | 23.00                       | 23.05                          | 21.85                        |                        |  |  |
| 1.4             | 64QAM      | 3       | 3         | 22.98                       | 23.01                          | 21.71                        |                        |  |  |



| Band 26         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26745           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 831.5           | 831.5              | 841.5            |                     |
| 15              | QPSK       | 1       | 0         | 23.31           | 23.22              | 23.23            | 24.2                |
| 15              | QPSK       | 1       | 37        | 23.18           | 23.23              | 23.22            |                     |
| 15              | QPSK       | 1       | 74        | 23.23           | 23.22              | 23.10            |                     |
| 15              | QPSK       | 36      | 0         | 23.36           | 23.35              | 23.36            | 24.2                |
| 15              | QPSK       | 36      | 20        | 23.38           | 23.40              | 23.31            |                     |
| 15              | QPSK       | 36      | 39        | 23.33           | 23.36              | 23.30            |                     |
| 15              | QPSK       | 75      | 0         | 23.40           | 23.33              | 23.32            | 24.2                |
| 15              | 16QAM      | 1       | 0         | 23.59           | 23.53              | 23.56            |                     |
| 15              | 16QAM      | 1       | 37        | 23.48           | 23.54              | 23.53            |                     |
| 15              | 16QAM      | 1       | 74        | 23.46           | 23.50              | 23.40            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.84           | 22.84              | 22.87            |                     |
| 15              | 16QAM      | 36      | 20        | 22.86           | 22.85              | 22.81            |                     |
| 15              | 16QAM      | 36      | 39        | 22.82           | 22.83              | 22.82            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.88           | 22.80              | 22.83            |                     |
| 15              | 64QAM      | 1       | 0         | 22.65           | 22.89              | 22.89            |                     |
| 15              | 64QAM      | 1       | 37        | 22.51           | 22.94              | 22.95            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.51           | 22.92              | 21.70            |                     |
| 15              | 64QAM      | 36      | 0         | 21.22           | 21.89              | 21.89            |                     |
| 15              | 64QAM      | 36      | 20        | 21.47           | 21.95              | 21.86            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.86           | 21.92              | 21.33            |                     |
| 15              | 64QAM      | 75      | 0         | 21.63           | 21.84              | 21.53            |                     |
| Channel         |            |         |           | 26740           | 26865              | 26990            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 819             | 831.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 23.22           | 23.17              | 23.19            | 24.2                |
| 10              | QPSK       | 1       | 25        | 23.16           | 23.20              | 23.13            |                     |
| 10              | QPSK       | 1       | 49        | 23.19           | 23.19              | 23.02            |                     |
| 10              | QPSK       | 25      | 0         | 23.28           | 23.35              | 23.29            | 24.2                |
| 10              | QPSK       | 25      | 12        | 23.37           | 23.35              | 23.31            |                     |
| 10              | QPSK       | 25      | 25        | 23.24           | 23.26              | 23.21            |                     |
| 10              | QPSK       | 50      | 0         | 23.34           | 23.32              | 23.27            | 24.2                |
| 10              | 16QAM      | 1       | 0         | 23.55           | 23.52              | 23.49            |                     |
| 10              | 16QAM      | 1       | 25        | 23.45           | 23.46              | 23.51            |                     |
| 10              | 16QAM      | 1       | 49        | 23.43           | 23.41              | 23.33            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.77           | 22.80              | 22.78            |                     |
| 10              | 16QAM      | 25      | 12        | 22.81           | 22.80              | 22.80            |                     |
| 10              | 16QAM      | 25      | 25        | 22.81           | 22.73              | 22.82            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.61           | 22.75              | 22.77            |                     |
| 10              | 64QAM      | 1       | 0         | 22.62           | 22.82              | 22.70            |                     |
| 10              | 64QAM      | 1       | 25        | 22.50           | 22.92              | 22.87            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.85           | 22.91              | 21.69            |                     |
| 10              | 64QAM      | 25      | 0         | 21.14           | 21.89              | 21.84            |                     |
| 10              | 64QAM      | 25      | 12        | 21.42           | 21.86              | 21.80            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.80           | 21.89              | 21.26            |                     |
| 10              | 64QAM      | 50      | 0         | 21.62           | 21.82              | 21.51            |                     |
| Channel         |            |         |           | 26715           | 26865              | 27015            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 816.5           | 831.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 23.30           | 23.13              | 23.16            | 24.2                |
| 5               | QPSK       | 1       | 12        | 23.10           | 23.21              | 23.20            |                     |
| 5               | QPSK       | 1       | 24        | 23.23           | 23.20              | 23.01            |                     |
| 5               | QPSK       | 12      | 0         | 23.27           | 23.26              | 23.30            | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.39           | 23.34              | 23.31            |                     |
| 5               | QPSK       | 12      | 13        | 23.24           | 23.31              | 23.29            |                     |
| 5               | QPSK       | 25      | 0         | 23.33           | 23.31              | 23.31            | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.54           | 23.48              | 23.55            |                     |
| 5               | 16QAM      | 1       | 12        | 23.46           | 23.45              | 23.44            |                     |
| 5               | 16QAM      | 1       | 24        | 23.43           | 23.43              | 23.33            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.75           | 22.79              | 22.86            |                     |
| 5               | 16QAM      | 12      | 7         | 22.82           | 22.81              | 22.72            |                     |
| 5               | 16QAM      | 12      | 13        | 22.78           | 22.80              | 22.72            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.81           | 22.76              | 22.78            |                     |
| 5               | 64QAM      | 1       | 0         | 22.62           | 22.79              | 22.85            |                     |
| 5               | 64QAM      | 1       | 12        | 22.46           | 22.85              | 22.94            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.51           | 22.90              | 21.60            |                     |
| 5               | 64QAM      | 12      | 0         | 21.22           | 21.82              | 21.83            |                     |
| 5               | 64QAM      | 12      | 7         | 21.45           | 21.93              | 21.83            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.77           | 21.86              | 21.33            |                     |
| 5               | 64QAM      | 25      | 0         | 21.55           | 21.84              | 21.46            |                     |
| Channel         |            |         |           | 26705           | 26865              | 27025            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 815.5           | 831.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 23.22           | 23.14              | 23.17            | 24.2                |
| 3               | QPSK       | 1       | 8         | 23.11           | 23.13              | 23.20            |                     |
| 3               | QPSK       | 1       | 14        | 23.23           | 23.18              | 23.00            |                     |
| 3               | QPSK       | 8       | 0         | 23.30           | 23.35              | 23.31            | 24.2                |
| 3               | QPSK       | 8       | 4         | 23.35           | 23.32              | 23.28            |                     |
| 3               | QPSK       | 8       | 7         | 23.27           | 23.30              | 23.21            |                     |
| 3               | QPSK       | 15      | 0         | 23.35           | 23.33              | 23.29            | 24.2                |
| 3               | 16QAM      | 1       | 0         | 23.55           | 23.46              | 23.55            |                     |
| 3               | 16QAM      | 1       | 8         | 23.46           | 23.48              | 23.53            |                     |
| 3               | 16QAM      | 1       | 14        | 23.45           | 23.43              | 23.39            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.83           | 22.83              | 22.80            |                     |
| 3               | 16QAM      | 8       | 4         | 22.83           | 22.87              | 22.81            |                     |
| 3               | 16QAM      | 8       | 7         | 22.77           | 22.73              | 22.81            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.83           | 22.78              | 22.77            |                     |
| 3               | 64QAM      | 1       | 0         | 22.60           | 22.94              | 22.84            |                     |
| 3               | 64QAM      | 1       | 8         | 22.47           | 22.91              | 22.89            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.87           | 22.92              | 21.61            |                     |
| 3               | 64QAM      | 8       | 0         | 21.20           | 21.80              | 21.88            |                     |
| 3               | 64QAM      | 8       | 4         | 21.47           | 21.95              | 21.83            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.78           | 21.85              | 21.23            |                     |
| 3               | 64QAM      | 15      | 0         | 21.61           | 21.75              | 21.44            |                     |
| Channel         |            |         |           | 26697           | 26865              | 27033            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 814.7           | 831.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 23.29           | 23.19              | 23.14            | 24.2                |
| 1.4             | QPSK       | 1       | 3         | 23.18           | 23.21              | 23.19            |                     |
| 1.4             | QPSK       | 1       | 5         | 23.23           | 23.17              | 23.09            |                     |
| 1.4             | QPSK       | 3       | 0         | 23.26           | 23.35              | 23.31            | 24.2                |
| 1.4             | QPSK       | 3       | 1         | 23.34           | 23.36              | 23.27            |                     |
| 1.4             | QPSK       | 3       | 3         | 23.23           | 23.36              | 23.21            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.33           | 23.26              | 23.32            | 24.2                |
| 1.4             | 16QAM      | 1       | 0         | 23.53           | 23.53              | 23.50            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.45           | 23.49              | 23.53            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.46           | 23.44              | 23.30            | 24.2                |
| 1.4             | 16QAM      | 3       | 0         | 22.77           | 22.81              | 22.83            |                     |
| 1.4             | 16QAM      | 3       | 1         | 22.79           | 22.80              | 22.71            |                     |
| 1.4             | 16QAM      | 3       | 3         | 22.78           | 22.78              | 22.80            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.85           | 22.73              | 22.74            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.62           | 22.85              | 22.79            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.47           | 22.92              | 22.88            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.86           | 22.91              | 21.99            |                     |
| 1.4             | 64QAM      | 3       | 0         | 21.73           | 21.80              | 21.79            |                     |
| 1.4             | 64QAM      | 3       | 1         | 21.72           | 21.88              | 21.84            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 21.83           | 21.82              | 21.70            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.55           | 21.79              | 21.51            |                     |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Annex           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 2771.0         |                   |                 |                     |
| Frequency (MHz) |            |         |           | 2310           |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 22.92             |                 | 23.7                |
| 10              | QPSK       | 1       | 25        |                | 22.76             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 22.77             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 21.83             |                 | 22.7                |
| 10              | QPSK       | 25      | 12        |                | 21.86             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 21.97             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 21.86             |                 | 22.7                |
| 10              | 16QAM      | 1       | 0         |                | 22.20             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 22.17             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 22.20             |                 | 21.7                |
| 10              | 16QAM      | 25      | 0         |                | 20.84             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.88             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 20.99             |                 | 21.7                |
| 10              | 16QAM      | 50      | 0         |                | 20.87             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 21.04             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 21.09             |                 | 21.7                |
| 10              | 64QAM      | 1       | 49        |                | 21.04             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.87             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 19.92             |                 | 20.7                |
| 10              | 64QAM      | 25      | 25        |                | 20.00             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 19.89             |                 |                     |
| Channel         |            |         |           | 2788.5         | 2771.0            | 2773.5          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5         | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 22.75          | 22.76             | 22.76           | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.89          | 22.90             | 22.87           |                     |
| 5               | QPSK       | 1       | 24        | 22.91          | 22.88             | 22.86           |                     |
| 5               | QPSK       | 12      | 0         | 21.90          | 21.85             | 21.87           | 22.7                |
| 5               | QPSK       | 12      | 7         | 21.95          | 21.97             | 21.93           |                     |
| 5               | QPSK       | 12      | 13        | 21.96          | 21.96             | 21.93           |                     |
| 5               | QPSK       | 25      | 0         | 21.83          | 21.87             | 21.90           | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.08          | 22.07             | 22.10           |                     |
| 5               | 16QAM      | 1       | 12        | 22.14          | 22.14             | 22.12           |                     |
| 5               | 16QAM      | 1       | 24        | 22.18          | 22.21             | 22.15           | 21.7                |
| 5               | 16QAM      | 12      | 0         | 20.92          | 20.87             | 20.90           |                     |
| 5               | 16QAM      | 12      | 7         | 20.96          | 20.99             | 20.95           |                     |
| 5               | 16QAM      | 12      | 13        | 20.97          | 20.97             | 20.94           | 21.7                |
| 5               | 16QAM      | 25      | 0         | 20.96          | 20.99             | 20.93           |                     |
| 5               | 64QAM      | 1       | 0         | 20.98          | 21.06             | 21.07           |                     |
| 5               | 64QAM      | 1       | 12        | 21.04          | 21.09             | 21.07           | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.12          | 21.13             | 21.12           |                     |
| 5               | 64QAM      | 12      | 0         | 19.99          | 19.91             | 19.96           |                     |
| 5               | 64QAM      | 12      | 7         | 20.03          | 20.03             | 20.00           | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.02          | 20.02             | 20.00           |                     |
| 5               | 64QAM      | 25      | 0         | 19.98          | 19.94             | 19.94           |                     |



| Band 66         |            |         |           |                    |                       |                     |                       |                       |  |
|-----------------|------------|---------|-----------|--------------------|-----------------------|---------------------|-----------------------|-----------------------|--|
| Ann 0           |            |         |           |                    |                       |                     |                       |                       |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low Ch. / | Power<br>Middle Ch. / | Power<br>High Ch. / | Tune-up<br>unit (dBm) |                       |  |
| Channel         |            |         |           | 132072             | 132322                | 132572              |                       |                       |  |
| Frequency (MHz) |            |         |           | 1720               | 1745                  | 1770                |                       |                       |  |
| 20              | QPSK       | 1       | 0         | 24.56              | 24.59                 | 24.79               | 25.7                  |                       |  |
| 20              | QPSK       | 1       | 49        | 24.39              | 24.44                 | 24.52               |                       |                       |  |
| 20              | QPSK       | 1       | 99        | 24.55              | 24.55                 | 24.44               |                       |                       |  |
| 20              | QPSK       | 50      | 0         | 23.57              | 23.67                 | 23.71               |                       |                       |  |
| 20              | QPSK       | 50      | 24        | 23.64              | 23.64                 | 23.69               | 24.7                  |                       |  |
| 20              | QPSK       | 50      | 50        | 23.65              | 23.68                 | 23.72               |                       |                       |  |
| 20              | QPSK       | 100     | 0         | 23.63              | 23.61                 | 23.68               |                       |                       |  |
| 20              | 16QAM      | 1       | 0         | 23.91              | 23.92                 | 24.01               |                       |                       |  |
| 20              | 16QAM      | 1       | 49        | 23.77              | 23.83                 | 23.86               | 24.7                  |                       |  |
| 20              | 16QAM      | 1       | 99        | 23.87              | 23.88                 | 23.81               |                       |                       |  |
| 20              | 16QAM      | 50      | 0         | 22.58              | 22.68                 | 22.74               |                       |                       |  |
| 20              | 16QAM      | 50      | 24        | 22.64              | 22.64                 | 22.68               |                       |                       |  |
| 20              | 16QAM      | 50      | 50        | 22.64              | 22.70                 | 22.72               | 23.7                  |                       |  |
| 20              | 16QAM      | 100     | 0         | 22.63              | 22.59                 | 22.71               |                       |                       |  |
| 20              | 64QAM      | 1       | 0         | 22.74              | 22.85                 | 22.81               |                       |                       |  |
| 20              | 64QAM      | 1       | 49        | 22.64              | 22.74                 | 22.69               |                       |                       |  |
| 20              | 64QAM      | 1       | 99        | 22.76              | 22.76                 | 22.71               | 23.7                  |                       |  |
| 20              | 64QAM      | 50      | 0         | 21.59              | 21.68                 | 21.71               |                       |                       |  |
| 20              | 64QAM      | 50      | 24        | 21.67              | 21.67                 | 21.71               |                       |                       |  |
| 20              | 64QAM      | 50      | 50        | 21.63              | 21.72                 | 21.75               |                       |                       |  |
| 20              | 64QAM      | 100     | 0         | 21.69              | 21.64                 | 21.71               | 22.7                  |                       |  |
| Channel         |            |         |           | 132047             | 132322                | 132597              |                       | Tune-up<br>unit (dBm) |  |
| Frequency (MHz) |            |         |           | 1717.5             | 1745                  | 1772.5              |                       |                       |  |
| 15              | QPSK       | 1       | 0         | 24.52              | 24.62                 | 24.65               | 25.7                  |                       |  |
| 15              | QPSK       | 1       | 37        | 24.41              | 24.54                 | 24.56               |                       |                       |  |
| 15              | QPSK       | 1       | 74        | 24.54              | 24.58                 | 24.55               |                       |                       |  |
| 15              | QPSK       | 36      | 0         | 23.60              | 23.67                 | 23.72               |                       |                       |  |
| 15              | QPSK       | 36      | 20        | 23.66              | 23.65                 | 23.70               | 24.7                  |                       |  |
| 15              | QPSK       | 36      | 39        | 23.62              | 23.70                 | 23.74               |                       |                       |  |
| 15              | QPSK       | 75      | 0         | 23.64              | 23.64                 | 23.71               |                       |                       |  |
| 15              | 16QAM      | 1       | 0         | 23.81              | 23.96                 | 23.96               |                       |                       |  |
| 15              | 16QAM      | 1       | 37        | 23.78              | 23.86                 | 23.92               | 24.7                  |                       |  |
| 15              | 16QAM      | 1       | 74        | 23.84              | 23.92                 | 23.84               |                       |                       |  |
| 15              | 16QAM      | 36      | 0         | 22.58              | 22.68                 | 22.70               |                       |                       |  |
| 15              | 16QAM      | 36      | 20        | 22.62              | 22.65                 | 22.67               |                       |                       |  |
| 15              | 16QAM      | 36      | 39        | 22.62              | 22.71                 | 22.72               | 23.7                  |                       |  |
| 15              | 16QAM      | 75      | 0         | 22.65              | 22.67                 | 22.71               |                       |                       |  |
| 15              | 64QAM      | 1       | 0         | 22.69              | 22.80                 | 22.83               |                       |                       |  |
| 15              | 64QAM      | 1       | 37        | 22.67              | 22.74                 | 22.80               |                       |                       |  |
| 15              | 64QAM      | 1       | 74        | 22.76              | 22.81                 | 22.72               | 22.7                  |                       |  |
| 15              | 64QAM      | 36      | 0         | 21.60              | 21.71                 | 21.76               |                       |                       |  |
| 15              | 64QAM      | 36      | 20        | 21.64              | 21.64                 | 21.69               |                       |                       |  |
| 15              | 64QAM      | 36      | 39        | 21.68              | 21.72                 | 21.75               |                       |                       |  |
| 15              | 64QAM      | 75      | 0         | 21.65              | 21.67                 | 21.72               | Tune-up<br>unit (dBm) |                       |  |
| Channel         |            |         |           | 132022             | 132322                | 132622              |                       |                       |  |
| Frequency (MHz) |            |         |           | 1715               | 1745                  | 1775                |                       |                       |  |
| 10              | QPSK       | 1       | 0         | 24.57              | 24.58                 | 24.70               | 25.7                  |                       |  |
| 10              | QPSK       | 1       | 25        | 24.55              | 24.64                 | 24.65               |                       |                       |  |
| 10              | QPSK       | 1       | 49        | 24.55              | 24.61                 | 24.66               |                       |                       |  |
| 10              | QPSK       | 25      | 0         | 23.64              | 23.69                 | 23.73               |                       |                       |  |
| 10              | QPSK       | 25      | 12        | 23.65              | 23.71                 | 23.72               | 24.7                  |                       |  |
| 10              | QPSK       | 25      | 25        | 23.65              | 23.75                 | 23.78               |                       |                       |  |
| 10              | QPSK       | 50      | 0         | 23.68              | 23.69                 | 23.74               |                       |                       |  |
| 10              | 16QAM      | 1       | 0         | 23.97              | 24.04                 | 24.05               |                       |                       |  |
| 10              | 16QAM      | 1       | 25        | 23.91              | 24.02                 | 24.03               | 24.7                  |                       |  |
| 10              | 16QAM      | 1       | 49        | 23.92              | 23.99                 | 24.04               |                       |                       |  |
| 10              | 16QAM      | 25      | 0         | 22.66              | 22.66                 | 22.73               |                       |                       |  |
| 10              | 16QAM      | 25      | 12        | 22.67              | 22.71                 | 22.74               |                       |                       |  |
| 10              | 16QAM      | 25      | 25        | 22.65              | 22.74                 | 22.77               | 23.7                  |                       |  |
| 10              | 16QAM      | 50      | 0         | 22.67              | 22.69                 | 22.73               |                       |                       |  |
| 10              | 64QAM      | 1       | 0         | 22.85              | 22.87                 | 22.77               |                       |                       |  |
| 10              | 64QAM      | 1       | 25        | 22.81              | 22.94                 | 22.98               |                       |                       |  |
| 10              | 64QAM      | 1       | 49        | 22.83              | 22.92                 | 22.95               | 22.7                  |                       |  |
| 10              | 64QAM      | 25      | 0         | 21.66              | 21.72                 | 21.75               |                       |                       |  |
| 10              | 64QAM      | 25      | 12        | 21.72              | 21.73                 | 21.76               |                       |                       |  |
| 10              | 64QAM      | 25      | 25        | 21.70              | 21.77                 | 21.78               |                       |                       |  |
| 10              | 64QAM      | 50      | 0         | 21.72              | 21.72                 | 21.78               | Tune-up<br>unit (dBm) |                       |  |
| Channel         |            |         |           | 131997             | 132322                | 132622              |                       |                       |  |
| Frequency (MHz) |            |         |           | 1712.5             | 1745                  | 1777.5              |                       |                       |  |
| 5               | QPSK       | 1       | 0         | 24.57              | 24.61                 | 24.73               | 25.7                  |                       |  |
| 5               | QPSK       | 1       | 12        | 24.59              | 24.69                 | 24.71               |                       |                       |  |
| 5               | QPSK       | 1       | 24        | 24.54              | 24.66                 | 24.71               |                       |                       |  |
| 5               | QPSK       | 12      | 0         | 23.66              | 23.71                 | 23.81               |                       |                       |  |
| 5               | QPSK       | 12      | 7         | 23.68              | 23.79                 | 23.81               | 24.7                  |                       |  |
| 5               | QPSK       | 12      | 13        | 23.63              | 23.78                 | 23.81               |                       |                       |  |
| 5               | QPSK       | 25      | 0         | 23.65              | 23.70                 | 23.79               |                       |                       |  |
| 5               | 16QAM      | 1       | 0         | 23.93              | 23.95                 | 24.04               |                       |                       |  |
| 5               | 16QAM      | 1       | 12        | 23.95              | 24.02                 | 24.03               | 24.7                  |                       |  |
| 5               | 16QAM      | 1       | 24        | 23.91              | 23.99                 | 24.03               |                       |                       |  |
| 5               | 16QAM      | 12      | 0         | 22.70              | 22.75                 | 22.85               |                       |                       |  |
| 5               | 16QAM      | 12      | 7         | 22.73              | 22.81                 | 22.86               |                       |                       |  |
| 5               | 16QAM      | 12      | 13        | 22.70              | 22.77                 | 22.81               | 23.7                  |                       |  |
| 5               | 16QAM      | 25      | 0         | 22.67              | 22.70                 | 22.79               |                       |                       |  |
| 5               | 64QAM      | 1       | 0         | 22.84              | 22.94                 | 23.03               |                       |                       |  |
| 5               | 64QAM      | 1       | 12        | 22.90              | 22.98                 | 22.98               |                       |                       |  |
| 5               | 64QAM      | 1       | 24        | 22.87              | 22.94                 | 22.91               | 22.7                  |                       |  |
| 5               | 64QAM      | 12      | 0         | 21.73              | 21.76                 | 21.87               |                       |                       |  |
| 5               | 64QAM      | 12      | 7         | 21.78              | 21.84                 | 21.87               |                       |                       |  |
| 5               | 64QAM      | 12      | 13        | 21.68              | 21.82                 | 21.83               |                       |                       |  |
| 5               | 64QAM      | 25      | 0         | 21.68              | 21.73                 | 21.83               | Tune-up<br>unit (dBm) |                       |  |
| Channel         |            |         |           | 131987             | 132322                | 132657              |                       |                       |  |
| Frequency (MHz) |            |         |           | 1711.5             | 1745                  | 1778.5              |                       |                       |  |
| 3               | QPSK       | 1       | 0         | 24.59              | 24.64                 | 24.72               | 25.7                  |                       |  |
| 3               | QPSK       | 1       | 8         | 24.64              | 24.74                 | 24.78               |                       |                       |  |
| 3               | QPSK       | 1       | 14        | 24.58              | 24.68                 | 24.67               |                       |                       |  |
| 3               | QPSK       | 8       | 0         | 23.68              | 23.70                 | 23.76               |                       |                       |  |
| 3               | QPSK       | 8       | 4         | 23.69              | 23.80                 | 23.79               | 24.7                  |                       |  |
| 3               | QPSK       | 8       | 7         | 23.67              | 23.72                 | 23.76               |                       |                       |  |
| 3               | QPSK       | 15      | 0         | 23.68              | 23.67                 | 23.78               |                       |                       |  |
| 3               | 16QAM      | 1       | 0         | 23.92              | 23.96                 | 24.05               |                       |                       |  |
| 3               | 16QAM      | 1       | 8         | 24.00              | 24.10                 | 24.14               | 24.7                  |                       |  |
| 3               | 16QAM      | 1       | 14        | 23.89              | 24.00                 | 24.00               |                       |                       |  |
| 3               | 16QAM      | 8       | 0         | 22.72              | 22.78                 | 22.86               |                       |                       |  |
| 3               | 16QAM      | 8       | 4         | 22.77              | 22.83                 | 22.89               |                       |                       |  |
| 3               | 16QAM      | 8       | 7         | 22.72              | 22.84                 | 22.81               | 23.7                  |                       |  |
| 3               | 16QAM      | 15      | 0         | 22.70              | 22.75                 | 22.79               |                       |                       |  |
| 3               | 64QAM      | 1       | 0         | 22.82              | 22.93                 | 22.94               |                       |                       |  |
| 3               | 64QAM      | 1       | 8         | 22.93              | 23.05                 | 23.03               |                       |                       |  |
| 3               | 64QAM      | 1       | 14        | 22.85              | 22.99                 | 22.97               | 22.7                  |                       |  |
| 3               | 64QAM      | 8       | 0         | 21.76              | 21.73                 | 21.81               |                       |                       |  |
| 3               | 64QAM      | 8       | 4         | 21.78              | 21.82                 | 21.87               |                       |                       |  |
| 3               | 64QAM      | 8       | 7         | 21.75              | 21.81                 | 21.84               |                       |                       |  |
| 3               | 64QAM      | 15      | 0         | 21.69              | 21.74                 | 21.81               | Tune-up<br>unit (dBm) |                       |  |
| Channel         |            |         |           | 131979             | 132322                | 132665              |                       |                       |  |
| Frequency (MHz) |            |         |           | 1710.7             | 1745                  | 1779.3              |                       |                       |  |
| 1.4             | QPSK       | 1       | 0         | 24.47              | 24.52                 | 24.61               | 25.7                  |                       |  |
| 1.4             | QPSK       | 1       | 3         | 24.56              | 24.66                 | 24.71               |                       |                       |  |
| 1.4             | QPSK       | 1       | 5         | 24.51              | 24.56                 | 24.65               |                       |                       |  |
| 1.4             | QPSK       | 3       | 0         | 24.52              | 24.63                 | 24.65               |                       |                       |  |
| 1.4             | QPSK       | 3       | 1         | 24.59              | 24.68                 | 24.71               | 24.7                  |                       |  |
| 1.4             | QPSK       | 3       | 3         | 24.53              | 24.64                 | 24.66               |                       |                       |  |
| 1.4             | QPSK       | 6       | 0         | 23.60              | 23.70                 | 23.71               |                       |                       |  |
| 1.4             | 16QAM      | 1       | 0         | 23.83              | 23.94                 | 23.95               | 24.7                  |                       |  |
| 1.4             | 16QAM      | 1       | 3         | 23.80              | 23.93                 | 23.94               |                       |                       |  |
| 1.4             | 16QAM      | 1       | 5         | 23.84              | 23.93                 | 23.94               |                       |                       |  |
| 1.4             | 16QAM      | 3       | 0         | 23.62              | 23.75                 | 23.76               |                       |                       |  |
| 1.4             | 16QAM      | 3       | 1         | 23.68              | 23.79                 | 23.80               | 23.7                  |                       |  |
| 1.4             | 16QAM      | 3       | 3         | 23.61              | 23.71                 | 23.72               |                       |                       |  |
| 1.4             | 16QAM      | 15      | 0         | 22.82              | 22.76                 | 22.77               |                       |                       |  |
| 1.4             | 16QAM      | 15      | 2         | 22.81              | 22.82                 | 22.91               |                       |                       |  |
| 1.4             | 64QAM      | 1       | 0         | 22.84              | 22.94                 | 22.95               | 23.7                  |                       |  |
| 1.4             | 64QAM      | 1       | 5         | 22.80              | 22.87                 | 22.89               |                       |                       |  |
| 1.4             | 64QAM      | 3       | 0         | 22.79              | 22.88                 | 22.92               |                       |                       |  |
| 1.4             | 64QAM      | 3       | 1         | 22.75              | 22.85                 | 22.87               |                       |                       |  |



| Band 71         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222          | 133322             | 133372           |                     |
| Frequency (MHz) |            |         |           | 673             | 683                | 688              |                     |
| 20              | QPSK       | 1       | 0         | 23.51           | 23.41              | 23.36            | 24.4                |
| 20              | QPSK       | 1       | 49        | 23.40           | 23.39              | 23.36            |                     |
| 20              | QPSK       | 1       | 99        | 23.42           | 23.37              | 23.31            |                     |
| 20              | QPSK       | 50      | 0         | 23.54           | 23.48              | 23.43            | 24.2                |
| 20              | QPSK       | 50      | 24        | 23.57           | 23.47              | 23.44            |                     |
| 20              | QPSK       | 50      | 50        | 23.57           | 23.49              | 23.46            |                     |
| 20              | QPSK       | 100     | 0         | 23.55           | 23.45              | 23.43            | 24.2                |
| 20              | 16QAM      | 1       | 0         | 23.85           | 23.73              | 23.69            |                     |
| 20              | 16QAM      | 1       | 49        | 23.72           | 23.76              | 23.70            |                     |
| 20              | 16QAM      | 1       | 99        | 23.80           | 23.68              | 23.64            | 23.2                |
| 20              | 16QAM      | 50      | 0         | 22.85           | 22.89              | 22.76            |                     |
| 20              | 16QAM      | 50      | 24        | 22.89           | 22.80              | 22.74            |                     |
| 20              | 16QAM      | 50      | 50        | 22.86           | 22.79              | 22.77            | 23.2                |
| 20              | 16QAM      | 100     | 0         | 22.87           | 22.76              | 22.71            |                     |
| 20              | 64QAM      | 1       | 0         | 22.23           | 22.83              | 22.83            |                     |
| 20              | 64QAM      | 1       | 49        | 22.84           | 22.91              | 22.55            | 23.2                |
| 20              | 64QAM      | 1       | 99        | 22.97           | 22.74              | 22.48            |                     |
| 20              | 64QAM      | 50      | 0         | 21.26           | 21.83              | 21.78            |                     |
| 20              | 64QAM      | 50      | 24        | 21.73           | 21.83              | 21.77            | 22.2                |
| 20              | 64QAM      | 50      | 50        | 21.90           | 21.83              | 21.79            |                     |
| 20              | 64QAM      | 100     | 0         | 21.74           | 21.77              | 21.74            |                     |
| Channel         |            |         |           | 133197          | 133297             | 133397           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 670.5           | 680.5              | 690.5            |                     |
| 15              | QPSK       | 1       | 0         | 23.54           | 23.45              | 23.39            | 24.4                |
| 15              | QPSK       | 1       | 37        | 23.41           | 23.39              | 23.35            |                     |
| 15              | QPSK       | 1       | 74        | 23.43           | 23.40              | 23.35            |                     |
| 15              | QPSK       | 36      | 0         | 23.52           | 23.48              | 23.42            | 24.2                |
| 15              | QPSK       | 36      | 20        | 23.59           | 23.48              | 23.42            |                     |
| 15              | QPSK       | 36      | 39        | 23.47           | 23.52              | 23.46            |                     |
| 15              | QPSK       | 75      | 0         | 23.58           | 23.47              | 23.41            | 24.2                |
| 15              | 16QAM      | 1       | 0         | 23.84           | 23.73              | 23.69            |                     |
| 15              | 16QAM      | 1       | 37        | 23.76           | 23.74              | 23.69            |                     |
| 15              | 16QAM      | 1       | 74        | 23.74           | 23.71              | 23.66            | 23.2                |
| 15              | 16QAM      | 36      | 0         | 22.85           | 22.79              | 22.75            |                     |
| 15              | 16QAM      | 36      | 20        | 22.86           | 22.77              | 22.74            |                     |
| 15              | 16QAM      | 36      | 39        | 22.82           | 22.80              | 22.78            | 23.2                |
| 15              | 16QAM      | 75      | 0         | 22.90           | 22.76              | 22.72            |                     |
| 15              | 64QAM      | 1       | 0         | 22.19           | 22.85              | 22.85            |                     |
| 15              | 64QAM      | 1       | 37        | 22.04           | 22.92              | 22.93            | 23.2                |
| 15              | 64QAM      | 1       | 74        | 22.94           | 22.85              | 22.67            |                     |
| 15              | 64QAM      | 36      | 0         | 21.06           | 21.81              | 21.77            |                     |
| 15              | 64QAM      | 36      | 20        | 21.25           | 21.81              | 21.79            | 22.2                |
| 15              | 64QAM      | 36      | 39        | 21.83           | 21.76              | 21.81            |                     |
| 15              | 64QAM      | 75      | 0         | 21.63           | 21.70              | 21.74            |                     |
| Channel         |            |         |           | 133172          | 133272             | 133422           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668             | 678                | 693              |                     |
| 10              | QPSK       | 1       | 0         | 23.53           | 23.40              | 23.40            | 24.4                |
| 10              | QPSK       | 1       | 25        | 23.40           | 23.34              | 23.36            |                     |
| 10              | QPSK       | 1       | 49        | 23.42           | 23.40              | 23.31            |                     |
| 10              | QPSK       | 25      | 0         | 23.58           | 23.47              | 23.44            | 24.2                |
| 10              | QPSK       | 25      | 12        | 23.59           | 23.56              | 23.45            |                     |
| 10              | QPSK       | 25      | 25        | 23.55           | 23.52              | 23.46            |                     |
| 10              | QPSK       | 50      | 0         | 23.59           | 23.56              | 23.43            | 24.2                |
| 10              | 16QAM      | 1       | 0         | 23.83           | 23.73              | 23.77            |                     |
| 10              | 16QAM      | 1       | 25        | 23.80           | 23.80              | 23.78            |                     |
| 10              | 16QAM      | 1       | 49        | 23.80           | 23.79              | 23.71            | 23.2                |
| 10              | 16QAM      | 25      | 0         | 22.85           | 22.76              | 22.72            |                     |
| 10              | 16QAM      | 25      | 12        | 22.89           | 22.86              | 22.71            |                     |
| 10              | 16QAM      | 25      | 25        | 22.83           | 22.80              | 22.76            | 23.2                |
| 10              | 16QAM      | 50      | 0         | 22.90           | 22.84              | 22.72            |                     |
| 10              | 64QAM      | 1       | 0         | 22.08           | 22.70              | 22.96            |                     |
| 10              | 64QAM      | 1       | 25        | 22.21           | 23.01              | 22.94            | 23.2                |
| 10              | 64QAM      | 1       | 49        | 22.55           | 22.99              | 22.85            |                     |
| 10              | 64QAM      | 25      | 0         | 20.98           | 21.81              | 21.76            |                     |
| 10              | 64QAM      | 25      | 12        | 21.03           | 21.88              | 21.79            | 22.2                |
| 10              | 64QAM      | 25      | 25        | 21.12           | 21.84              | 21.61            |                     |
| 10              | 64QAM      | 50      | 0         | 21.11           | 21.86              | 21.73            |                     |
| Channel         |            |         |           | 133147          | 133247             | 133447           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5           | 675.5              | 695.5            |                     |
| 5               | QPSK       | 1       | 0         | 23.56           | 23.46              | 23.40            | 24.4                |
| 5               | QPSK       | 1       | 12        | 23.54           | 23.43              | 23.35            |                     |
| 5               | QPSK       | 1       | 24        | 23.47           | 23.41              | 23.34            |                     |
| 5               | QPSK       | 12      | 0         | 23.66           | 23.52              | 23.45            | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.61           | 23.55              | 23.45            |                     |
| 5               | QPSK       | 12      | 13        | 23.54           | 23.49              | 23.40            |                     |
| 5               | QPSK       | 25      | 0         | 23.58           | 23.54              | 23.39            | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.84           | 23.70              | 23.71            |                     |
| 5               | 16QAM      | 1       | 12        | 23.76           | 23.77              | 23.69            |                     |
| 5               | 16QAM      | 1       | 24        | 23.76           | 23.72              | 23.63            | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.74           | 22.87              | 22.78            |                     |
| 5               | 16QAM      | 12      | 7         | 22.83           | 22.86              | 22.80            |                     |
| 5               | 16QAM      | 12      | 13        | 22.85           | 22.83              | 22.72            | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.78           | 22.94              | 22.71            |                     |
| 5               | 64QAM      | 1       | 0         | 21.70           | 22.53              | 22.71            |                     |
| 5               | 64QAM      | 1       | 12        | 21.79           | 23.04              | 22.89            | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.03           | 23.04              | 22.65            |                     |
| 5               | 64QAM      | 12      | 0         | 20.85           | 21.90              | 21.55            |                     |
| 5               | 64QAM      | 12      | 7         | 20.96           | 21.91              | 21.68            | 22.2                |
| 5               | 64QAM      | 12      | 13        | 20.61           | 21.96              | 21.52            |                     |
| 5               | 64QAM      | 25      | 0         | 20.83           | 21.87              | 21.45            |                     |



| Band 2          |            |         |           |                    |                    |                     |                        |
|-----------------|------------|---------|-----------|--------------------|--------------------|---------------------|------------------------|
| Ann 2           |            |         |           |                    |                    |                     |                        |
| BW (MHz)        | Modulation | RB Size | RB Offset | Low Ch. /<br>18700 | Mid Ch. /<br>18800 | High Ch. /<br>18900 | Tune-up<br>limit (dBm) |
| Channel         |            |         |           | 18700              | 18800              | 18900               |                        |
| Frequency (MHz) |            |         |           | 18600              | 18800              | 19000               |                        |
| 20              | QPSK       | 1       | 0         | 23.08              | 23.12              | 23.11               | 24.2                   |
| 20              | QPSK       | 1       | 49        | 23.06              | 23.06              | 23.06               |                        |
| 20              | QPSK       | 1       | 99        | 23.01              | 23.05              | 23.07               |                        |
| 20              | QPSK       | 50      | 0         | 23.15              | 23.17              | 23.09               |                        |
| 20              | QPSK       | 50      | 24        | 23.22              | 23.21              | 23.20               | 24.2                   |
| 20              | QPSK       | 50      | 50        | 23.20              | 23.25              | 23.21               |                        |
| 20              | 16QAM      | 100     | 0         | 23.23              | 23.15              | 22.89               |                        |
| 20              | 16QAM      | 1       | 0         | 23.39              | 23.46              | 23.41               |                        |
| 20              | 16QAM      | 1       | 49        | 23.39              | 23.45              | 22.85               | 24                     |
| 20              | 16QAM      | 1       | 99        | 23.31              | 23.41              | 23.33               |                        |
| 20              | 16QAM      | 50      | 0         | 22.63              | 22.67              | 22.33               |                        |
| 20              | 16QAM      | 50      | 24        | 22.74              | 22.71              | 22.35               |                        |
| 20              | 16QAM      | 50      | 50        | 22.71              | 22.75              | 22.69               | 23                     |
| 20              | 16QAM      | 100     | 0         | 22.72              | 22.64              | 22.52               |                        |
| 20              | 64QAM      | 1       | 0         | 22.67              | 22.33              | 22.32               |                        |
| 20              | 64QAM      | 1       | 49        | 22.24              | 22.76              | 21.22               |                        |
| 20              | 64QAM      | 1       | 99        | 21.79              | 22.77              | 21.95               | 23                     |
| 20              | 64QAM      | 50      | 0         | 20.33              | 20.32              | 20.32               |                        |
| 20              | 64QAM      | 50      | 24        | 20.31              | 20.30              | 20.35               |                        |
| 20              | 64QAM      | 50      | 50        | 20.79              | 20.33              | 20.85               |                        |
| 20              | 64QAM      | 100     | 0         | 21.17              | 20.35              | 20.60               | 22                     |
| Channel         |            |         |           | 18675              | 18800              | 18925               |                        |
| Frequency (MHz) |            |         |           | 1867.5             | 1880               | 1892.5              |                        |
| 15              | QPSK       | 1       | 0         | 23.06              | 23.07              | 23.06               | 24.2                   |
| 15              | QPSK       | 1       | 37        | 23.06              | 23.03              | 23.06               |                        |
| 15              | QPSK       | 1       | 74        | 23.01              | 23.03              | 23.00               |                        |
| 15              | QPSK       | 36      | 0         | 23.10              | 23.11              | 22.99               |                        |
| 15              | QPSK       | 36      | 20        | 23.13              | 23.14              | 23.14               | 24.2                   |
| 15              | QPSK       | 36      | 36        | 23.13              | 23.19              | 23.16               |                        |
| 15              | QPSK       | 75      | 0         | 23.20              | 23.10              | 22.93               |                        |
| 15              | 16QAM      | 1       | 0         | 23.33              | 23.39              | 23.35               |                        |
| 15              | 16QAM      | 1       | 37        | 23.30              | 23.43              | 22.84               | 24                     |
| 15              | 16QAM      | 1       | 74        | 23.29              | 23.39              | 23.25               |                        |
| 15              | 16QAM      | 36      | 0         | 22.53              | 22.64              | 22.33               |                        |
| 15              | 16QAM      | 36      | 20        | 22.69              | 22.69              | 22.37               |                        |
| 15              | 16QAM      | 36      | 36        | 22.69              | 22.67              | 22.65               | 23                     |
| 15              | 16QAM      | 75      | 0         | 22.72              | 22.54              | 22.47               |                        |
| 15              | 64QAM      | 1       | 0         | 22.88              | 22.25              | 22.23               |                        |
| 15              | 64QAM      | 1       | 37        | 22.24              | 22.73              | 21.21               |                        |
| 15              | 64QAM      | 1       | 74        | 21.73              | 22.76              | 21.93               | 23                     |
| 15              | 64QAM      | 36      | 0         | 21.61              | 21.57              | 20.29               |                        |
| 15              | 64QAM      | 36      | 20        | 21.23              | 21.63              | 20.34               |                        |
| 15              | 64QAM      | 36      | 36        | 20.73              | 21.75              | 20.85               |                        |
| 15              | 64QAM      | 75      | 0         | 21.14              | 21.30              | 20.51               | 22                     |
| Channel         |            |         |           | 18650              | 18600              | 18550               |                        |
| Frequency (MHz) |            |         |           | 1865               | 1865               | 1855                |                        |
| 10              | QPSK       | 1       | 0         | 23.08              | 23.04              | 23.01               | 24.2                   |
| 10              | QPSK       | 1       | 25        | 23.06              | 23.02              | 23.01               |                        |
| 10              | QPSK       | 1       | 49        | 23.00              | 23.04              | 23.01               |                        |
| 10              | QPSK       | 25      | 0         | 23.08              | 23.14              | 23.04               |                        |
| 10              | QPSK       | 25      | 12        | 23.19              | 23.17              | 23.18               | 24.2                   |
| 10              | QPSK       | 25      | 25        | 23.18              | 23.20              | 23.14               |                        |
| 10              | QPSK       | 50      | 0         | 23.18              | 23.14              | 22.92               |                        |
| 10              | 16QAM      | 1       | 0         | 23.37              | 23.42              | 23.33               |                        |
| 10              | 16QAM      | 1       | 25        | 23.37              | 23.45              | 22.80               | 24                     |
| 10              | 16QAM      | 1       | 49        | 23.28              | 23.41              | 23.32               |                        |
| 10              | 16QAM      | 25      | 0         | 22.59              | 22.63              | 22.25               |                        |
| 10              | 16QAM      | 25      | 12        | 22.73              | 22.69              | 22.26               |                        |
| 10              | 16QAM      | 25      | 25        | 22.62              | 22.65              | 22.63               | 23                     |
| 10              | 16QAM      | 50      | 0         | 22.62              | 22.55              | 22.50               |                        |
| 10              | 64QAM      | 1       | 0         | 22.60              | 22.32              | 22.32               |                        |
| 10              | 64QAM      | 1       | 25        | 22.18              | 22.66              | 21.21               |                        |
| 10              | 64QAM      | 1       | 49        | 21.72              | 22.72              | 21.90               | 23                     |
| 10              | 64QAM      | 25      | 0         | 21.60              | 21.58              | 20.23               |                        |
| 10              | 64QAM      | 25      | 12        | 21.20              | 21.64              | 20.27               |                        |
| 10              | 64QAM      | 25      | 25        | 20.72              | 21.68              | 20.81               |                        |
| 10              | 64QAM      | 50      | 0         | 21.16              | 21.36              | 20.50               | 22                     |
| Channel         |            |         |           | 18625              | 18600              | 18575               |                        |
| Frequency (MHz) |            |         |           | 1862.5             | 18600              | 18575               |                        |
| 5               | QPSK       | 1       | 0         | 23.05              | 23.07              | 23.09               | 24.2                   |
| 5               | QPSK       | 1       | 12        | 23.03              | 23.00              | 23.02               |                        |
| 5               | QPSK       | 1       | 24        | 23.01              | 23.00              | 23.03               |                        |
| 5               | QPSK       | 12      | 0         | 23.13              | 23.07              | 23.07               |                        |
| 5               | QPSK       | 12      | 7         | 23.18              | 23.12              | 23.14               | 24.2                   |
| 5               | QPSK       | 12      | 13        | 23.14              | 23.19              | 23.15               |                        |
| 5               | QPSK       | 25      | 0         | 23.17              | 23.13              | 22.92               |                        |
| 5               | 16QAM      | 1       | 0         | 23.29              | 23.36              | 23.35               |                        |
| 5               | 16QAM      | 1       | 12        | 23.33              | 23.39              | 23.85               | 24                     |
| 5               | 16QAM      | 1       | 24        | 23.30              | 23.32              | 23.26               |                        |
| 5               | 16QAM      | 12      | 0         | 22.62              | 22.60              | 22.32               |                        |
| 5               | 16QAM      | 12      | 7         | 22.73              | 22.62              | 22.25               |                        |
| 5               | 16QAM      | 12      | 13        | 22.64              | 22.73              | 22.69               | 23                     |
| 5               | 16QAM      | 25      | 0         | 22.70              | 22.59              | 22.48               |                        |
| 5               | 64QAM      | 1       | 0         | 22.57              | 22.24              | 22.29               |                        |
| 5               | 64QAM      | 1       | 12        | 22.24              | 22.68              | 21.20               |                        |
| 5               | 64QAM      | 1       | 24        | 21.72              | 22.67              | 21.91               | 23                     |
| 5               | 64QAM      | 12      | 0         | 21.53              | 21.54              | 20.30               |                        |
| 5               | 64QAM      | 12      | 7         | 21.16              | 21.69              | 20.35               |                        |
| 5               | 64QAM      | 12      | 13        | 20.70              | 21.67              | 20.76               |                        |
| 5               | 64QAM      | 25      | 0         | 21.17              | 21.36              | 20.55               | 22                     |
| Channel         |            |         |           | 18615              | 18600              | 18585               |                        |
| Frequency (MHz) |            |         |           | 1861.5             | 18600              | 18585               |                        |
| 3               | QPSK       | 1       | 0         | 23.07              | 23.07              | 23.09               | 24.2                   |
| 3               | QPSK       | 1       | 8         | 23.05              | 23.06              | 23.00               |                        |
| 3               | QPSK       | 1       | 14        | 23.02              | 23.00              | 23.02               |                        |
| 3               | QPSK       | 8       | 0         | 23.09              | 23.11              | 22.99               |                        |
| 3               | QPSK       | 8       | 4         | 23.16              | 23.12              | 23.10               | 24.2                   |
| 3               | QPSK       | 8       | 7         | 23.15              | 23.15              | 23.12               |                        |
| 3               | QPSK       | 16      | 0         | 23.13              | 23.09              | 22.98               |                        |
| 3               | 16QAM      | 1       | 0         | 23.29              | 23.45              | 23.33               |                        |
| 3               | 16QAM      | 1       | 8         | 23.30              | 23.35              | 22.76               | 24                     |
| 3               | 16QAM      | 1       | 14        | 23.31              | 23.34              | 23.26               |                        |
| 3               | 16QAM      | 8       | 0         | 22.58              | 22.65              | 22.31               |                        |
| 3               | 16QAM      | 8       | 4         | 22.67              | 22.69              | 22.27               |                        |
| 3               | 16QAM      | 8       | 7         | 22.70              | 22.73              | 22.65               | 23                     |
| 3               | 16QAM      | 15      | 0         | 22.62              | 22.59              | 22.47               |                        |
| 3               | 64QAM      | 1       | 0         | 22.66              | 22.21              | 22.30               |                        |
| 3               | 64QAM      | 1       | 8         | 22.22              | 22.68              | 21.22               |                        |
| 3               | 64QAM      | 1       | 14        | 21.70              | 22.75              | 21.88               | 23                     |
| 3               | 64QAM      | 8       | 0         | 21.54              | 21.56              | 20.25               |                        |
| 3               | 64QAM      | 8       | 4         | 21.16              | 21.70              | 20.30               |                        |
| 3               | 64QAM      | 8       | 7         | 20.69              | 21.67              | 20.81               |                        |
| 3               | 64QAM      | 15      | 0         | 21.12              | 21.37              | 20.55               | 22                     |
| Channel         |            |         |           | 18607              | 18600              | 18593               |                        |
| Frequency (MHz) |            |         |           | 1860.7             | 18600              | 18593               |                        |
| 1.4             | QPSK       | 1       | 0         | 23.06              | 23.09              | 23.05               | 24.2                   |
| 1.4             | QPSK       | 1       | 3         | 23.00              | 23.01              | 23.05               |                        |
| 1.4             | QPSK       | 1       | 5         | 23.00              | 23.04              | 23.02               |                        |
| 1.4             | QPSK       | 3       | 0         | 23.06              | 23.10              | 23.07               |                        |
| 1.4             | QPSK       | 3       | 1         | 23.20              | 23.13              | 23.17               | 24.2                   |
| 1.4             | QPSK       | 3       | 3         | 23.12              | 23.23              | 23.11               |                        |
| 1.4             | QPSK       | 6       | 0         | 23.17              | 23.11              | 22.91               |                        |
| 1.4             | 16QAM      | 1       | 0         | 23.35              | 23.44              | 23.39               |                        |
| 1.4             | 16QAM      | 1       | 3         | 23.35              | 23.41              | 22.82               | 24                     |
| 1.4             | 16QAM      | 1       | 5         | 23.22              | 23.34              | 23.24               |                        |
| 1.4             | 16QAM      | 3       | 0         | 22.63              | 22.62              | 22.26               |                        |
| 1.4             | 16QAM      | 3       | 1         | 22.72              | 22.67              | 22.30               |                        |
| 1.4             | 16QAM      | 3       | 3         | 22.61              | 22.69              | 22.62               | 23                     |
| 1.4             | 16QAM      | 6       | 0         | 22.66              | 22.55              | 22.51               |                        |
| 1.4             | 64QAM      | 1       | 0         | 22.67              | 22.28              | 22.30               |                        |
| 1.4             | 64QAM      | 1       | 3         | 22.20              | 22.72              | 21.23               |                        |
| 1.4             | 64QAM      | 1       | 5         | 21.71              | 22.67              | 21.62               | 23                     |
| 1.4             | 64QAM      | 3       | 0         | 21.56              | 21.61              | 21.62               |                        |
| 1.4             | 64QAM      | 3       | 1         | 21.02              | 21.69              | 21.68               |                        |
| 1.4             | 64QAM      | 3       | 3         | 21.66              | 21.68              | 21.65               |                        |
| 1.4             | 64QAM      | 6       | 0         | 21.14              | 21.32              | 20.56               | 22                     |



| Band 4   |            |         |           |                 |                   |                  |                     |                     |  |
|----------|------------|---------|-----------|-----------------|-------------------|------------------|---------------------|---------------------|--|
| Art 2    |            |         |           |                 |                   |                  |                     |                     |  |
| BW (MHz) | Modulation | RB Size | RB Offset | Low Ch. / 20050 | Midle Ch. / 20175 | High Ch. / 20300 | Tune-up limit (dBm) |                     |  |
| Channel  |            |         |           | Frequency (MHz) | 1720              | 1732.5           | 1745                |                     |  |
| 20       | QPSK       | 1       | 0         | 22.95           | 23.01             | 22.99            | 24.1                |                     |  |
| 20       | QPSK       | 1       | 49        | 22.92           | 22.95             | 22.92            |                     |                     |  |
| 20       | QPSK       | 1       | 99        | 22.93           | 22.96             | 22.92            |                     |                     |  |
| 20       | QPSK       | 50      | 0         | 23.02           | 23.03             | 22.99            |                     |                     |  |
| 20       | QPSK       | 50      | 24        | 23.06           | 22.94             | 22.91            | 24.1                |                     |  |
| 20       | QPSK       | 50      | 50        | 22.97           | 22.95             | 22.92            |                     |                     |  |
| 20       | QPSK       | 100     | 0         | 23.01           | 23.01             | 22.87            |                     |                     |  |
| 20       | 16QAM      | 1       | 0         | 23.29           | 23.36             | 23.31            | 24.1                |                     |  |
| 20       | 16QAM      | 1       | 49        | 23.19           | 23.16             | 23.14            |                     |                     |  |
| 20       | 16QAM      | 1       | 99        | 23.20           | 23.08             | 23.03            |                     |                     |  |
| 20       | 16QAM      | 50      | 0         | 22.61           | 22.67             | 22.60            |                     |                     |  |
| 20       | 16QAM      | 50      | 24        | 22.66           | 22.58             | 22.52            | 23.6                |                     |  |
| 20       | 16QAM      | 50      | 50        | 22.59           | 22.56             | 22.53            |                     |                     |  |
| 20       | 16QAM      | 100     | 0         | 22.62           | 22.63             | 22.48            |                     |                     |  |
| 20       | 64QAM      | 1       | 0         | 22.74           | 22.83             | 22.06            | 23.6                |                     |  |
| 20       | 64QAM      | 1       | 49        | 22.64           | 22.14             | 22.62            |                     |                     |  |
| 20       | 64QAM      | 1       | 99        | 22.67           | 21.78             | 22.63            |                     |                     |  |
| 20       | 64QAM      | 50      | 0         | 21.65           | 21.69             | 21.22            |                     |                     |  |
| 20       | 64QAM      | 50      | 24        | 21.68           | 21.24             | 21.56            | 22.6                |                     |  |
| 20       | 64QAM      | 50      | 50        | 21.62           | 21.03             | 21.54            |                     |                     |  |
| 20       | 64QAM      | 100     | 0         | 21.69           | 21.60             | 21.54            |                     |                     |  |
| Channel  |            |         |           | Frequency (MHz) | 20025             | 20175            | 20305               | Tune-up limit (dBm) |  |
| 15       | QPSK       | 1       | 0         | 22.92           | 22.95             | 22.98            | 24.1                |                     |  |
| 15       | QPSK       | 1       | 37        | 22.92           | 22.96             | 22.91            |                     |                     |  |
| 15       | QPSK       | 1       | 74        | 22.96           | 22.92             | 22.93            |                     |                     |  |
| 15       | QPSK       | 36      | 0         | 23.00           | 23.03             | 22.95            |                     |                     |  |
| 15       | QPSK       | 36      | 20        | 23.02           | 22.93             | 22.90            | 24.1                |                     |  |
| 15       | QPSK       | 36      | 39        | 22.87           | 22.87             | 22.91            |                     |                     |  |
| 15       | QPSK       | 75      | 0         | 22.98           | 22.93             | 22.87            |                     |                     |  |
| 15       | 16QAM      | 1       | 0         | 23.26           | 23.34             | 23.27            |                     |                     |  |
| 15       | 16QAM      | 1       | 37        | 23.10           | 23.09             | 23.11            | 24.1                |                     |  |
| 15       | 16QAM      | 1       | 74        | 23.19           | 23.02             | 23.02            |                     |                     |  |
| 15       | 16QAM      | 36      | 0         | 22.52           | 22.58             | 22.54            |                     |                     |  |
| 15       | 16QAM      | 36      | 20        | 22.61           | 22.53             | 22.50            |                     |                     |  |
| 15       | 16QAM      | 36      | 39        | 22.58           | 22.58             | 22.49            | 23.6                |                     |  |
| 15       | 16QAM      | 75      | 0         | 22.60           | 22.60             | 22.45            |                     |                     |  |
| 15       | 64QAM      | 1       | 0         | 22.67           | 22.81             | 22.00            |                     |                     |  |
| 15       | 64QAM      | 1       | 37        | 22.57           | 22.05             | 22.55            |                     |                     |  |
| 15       | 64QAM      | 1       | 74        | 22.65           | 21.73             | 22.56            | 23.6                |                     |  |
| 15       | 64QAM      | 36      | 0         | 21.53           | 21.63             | 21.16            |                     |                     |  |
| 15       | 64QAM      | 36      | 20        | 21.66           | 21.21             | 21.50            |                     |                     |  |
| 15       | 64QAM      | 36      | 39        | 21.61           | 21.02             | 21.47            |                     |                     |  |
| 15       | 64QAM      | 75      | 0         | 21.60           | 21.56             | 21.45            | 22.6                |                     |  |
| 15       | 64QAM      | 75      | 24        | 21.65           | 21.15             | 21.54            |                     |                     |  |
| 15       | 64QAM      | 100     | 0         | 21.67           | 21.62             | 21.53            |                     |                     |  |
| 15       | 64QAM      | 100     | 24        | 21.72           | 21.67             | 21.54            |                     |                     |  |
| Channel  |            |         |           | Frequency (MHz) | 20050             | 20175            | 20305               | Tune-up limit (dBm) |  |
| 10       | QPSK       | 1       | 0         | 22.93           | 22.91             | 22.94            | 24.1                |                     |  |
| 10       | QPSK       | 1       | 26        | 22.92           | 22.90             | 22.93            |                     |                     |  |
| 10       | QPSK       | 1       | 49        | 22.94           | 22.92             | 22.91            |                     |                     |  |
| 10       | QPSK       | 25      | 0         | 22.97           | 23.03             | 22.93            |                     |                     |  |
| 10       | QPSK       | 25      | 12        | 23.01           | 22.84             | 22.87            | 24.1                |                     |  |
| 10       | QPSK       | 25      | 25        | 22.93           | 22.88             | 22.94            |                     |                     |  |
| 10       | QPSK       | 50      | 0         | 22.93           | 22.93             | 22.78            |                     |                     |  |
| 10       | 16QAM      | 1       | 0         | 23.26           | 23.34             | 23.22            |                     |                     |  |
| 10       | 16QAM      | 1       | 25        | 23.17           | 23.07             | 23.07            | 24.1                |                     |  |
| 10       | 16QAM      | 1       | 49        | 23.17           | 23.01             | 22.96            |                     |                     |  |
| 10       | 16QAM      | 25      | 0         | 22.55           | 22.62             | 22.59            |                     |                     |  |
| 10       | 16QAM      | 25      | 12        | 22.61           | 22.49             | 22.49            |                     |                     |  |
| 10       | 16QAM      | 25      | 25        | 22.49           | 22.56             | 22.53            | 23.6                |                     |  |
| 10       | 16QAM      | 50      | 0         | 22.57           | 22.56             | 22.43            |                     |                     |  |
| 10       | 64QAM      | 1       | 0         | 22.73           | 22.78             | 22.04            |                     |                     |  |
| 10       | 64QAM      | 1       | 25        | 22.55           | 22.06             | 22.62            |                     |                     |  |
| 10       | 64QAM      | 1       | 49        | 22.66           | 21.78             | 22.55            | 23.6                |                     |  |
| 10       | 64QAM      | 25      | 0         | 21.63           | 21.68             | 21.13            |                     |                     |  |
| 10       | 64QAM      | 25      | 12        | 21.67           | 21.15             | 21.52            |                     |                     |  |
| 10       | 64QAM      | 25      | 25        | 21.54           | 21.00             | 21.46            |                     |                     |  |
| Channel  |            |         |           | Frequency (MHz) | 1697.5            | 1717.5           | 1737.5              | Tune-up limit (dBm) |  |
| 5        | QPSK       | 1       | 0         | 22.97           | 22.98             | 22.96            | 24.1                |                     |  |
| 5        | QPSK       | 1       | 12        | 22.95           | 22.96             | 22.92            |                     |                     |  |
| 5        | QPSK       | 1       | 24        | 22.93           | 22.97             | 22.96            |                     |                     |  |
| 5        | QPSK       | 12      | 0         | 22.97           | 22.95             | 22.96            |                     |                     |  |
| 5        | QPSK       | 12      | 7         | 22.97           | 22.91             | 22.93            | 24.1                |                     |  |
| 5        | QPSK       | 12      | 13        | 22.97           | 22.92             | 22.91            |                     |                     |  |
| 5        | QPSK       | 25      | 0         | 22.91           | 22.94             | 22.80            |                     |                     |  |
| 5        | 16QAM      | 1       | 0         | 23.21           | 23.35             | 23.31            |                     |                     |  |
| 5        | 16QAM      | 1       | 12        | 23.10           | 23.13             | 23.08            | 24.1                |                     |  |
| 5        | 16QAM      | 1       | 24        | 23.18           | 23.07             | 23.02            |                     |                     |  |
| 5        | 16QAM      | 12      | 7         | 22.60           | 22.55             | 22.44            |                     |                     |  |
| 5        | 16QAM      | 12      | 13        | 22.54           | 22.52             | 22.46            |                     |                     |  |
| 5        | 16QAM      | 25      | 0         | 22.60           | 22.57             | 22.45            | 23.6                |                     |  |
| 5        | 16QAM      | 25      | 12        | 22.61           | 22.49             | 22.49            |                     |                     |  |
| 5        | 64QAM      | 1       | 0         | 22.71           | 22.77             | 22.02            |                     |                     |  |
| 5        | 64QAM      | 1       | 12        | 22.58           | 22.10             | 22.61            |                     |                     |  |
| 5        | 64QAM      | 1       | 24        | 22.57           | 21.75             | 22.56            | 22.6                |                     |  |
| 5        | 64QAM      | 12      | 0         | 21.61           | 21.65             | 21.17            |                     |                     |  |
| 5        | 64QAM      | 12      | 7         | 21.61           | 21.24             | 21.56            |                     |                     |  |
| 5        | 64QAM      | 12      | 13        | 21.58           | 20.98             | 21.46            |                     |                     |  |
| 5        | 64QAM      | 25      | 0         | 21.68           | 21.58             | 21.49            | 22.6                |                     |  |
| 5        | 64QAM      | 25      | 12        | 21.73           | 21.53             | 21.53            |                     |                     |  |
| 5        | 64QAM      | 25      | 25        | 21.53           | 21.04             | 21.45            |                     |                     |  |
| 5        | 64QAM      | 25      | 37        | 21.58           | 21.02             | 21.45            |                     |                     |  |
| Channel  |            |         |           | Frequency (MHz) | 1696.5            | 1717.5           | 1738.5              | Tune-up limit (dBm) |  |
| 3        | QPSK       | 1       | 0         | 22.92           | 22.92             | 22.96            | 24.1                |                     |  |
| 3        | QPSK       | 1       | 6         | 22.90           | 22.91             | 22.94            |                     |                     |  |
| 3        | QPSK       | 1       | 14        | 22.93           | 22.95             | 22.96            |                     |                     |  |
| 3        | QPSK       | 8       | 0         | 22.93           | 23.00             | 22.92            |                     |                     |  |
| 3        | QPSK       | 8       | 4         | 23.00           | 22.86             | 22.86            | 24.1                |                     |  |
| 3        | QPSK       | 8       | 7         | 22.96           | 22.93             | 22.88            |                     |                     |  |
| 3        | QPSK       | 15      | 0         | 23.01           | 22.99             | 22.78            |                     |                     |  |
| 3        | 16QAM      | 1       | 0         | 23.25           | 23.33             | 23.30            |                     |                     |  |
| 3        | 16QAM      | 1       | 6         | 23.16           | 23.14             | 23.11            | 24.1                |                     |  |
| 3        | 16QAM      | 1       | 14        | 23.14           | 23.01             | 22.94            |                     |                     |  |
| 3        | 16QAM      | 8       | 0         | 22.54           | 22.61             | 22.56            |                     |                     |  |
| 3        | 16QAM      | 8       | 4         | 22.55           | 22.57             | 22.50            |                     |                     |  |
| 3        | 16QAM      | 8       | 7         | 22.58           | 22.56             | 22.49            | 23.6                |                     |  |
| 3        | 16QAM      | 15      | 0         | 22.60           | 22.55             | 22.43            |                     |                     |  |
| 3        | 64QAM      | 1       | 0         | 22.64           | 22.76             | 21.96            |                     |                     |  |
| 3        | 64QAM      | 1       | 6         | 22.60           | 22.07             | 22.57            |                     |                     |  |
| 3        | 64QAM      | 1       | 14        | 22.65           | 21.73             | 22.61            | 22.6                |                     |  |
| 3        | 64QAM      | 8       | 0         | 21.62           | 21.67             | 21.12            |                     |                     |  |
| 3        | 64QAM      | 8       | 4         | 21.66           | 21.18             | 21.53            |                     |                     |  |
| 3        | 64QAM      | 8       | 7         | 21.52           | 20.94             | 21.51            |                     |                     |  |
| 3        | 64QAM      | 15      | 0         | 21.58           | 21.52             | 21.54            | 22.6                |                     |  |
| 3        | 64QAM      | 15      | 6         | 21.63           | 21.52             | 21.54            |                     |                     |  |
| 3        | 64QAM      | 15      | 14        | 21.68           | 21.57             | 21.54            |                     |                     |  |
| 3        | 64QAM      | 15      | 21        | 21.73           | 21.62             | 21.63            |                     |                     |  |
| Channel  |            |         |           | Frequency (MHz) | 1715.7            | 1732.5           | 1754.3              | Tune-up limit (dBm) |  |
| 1.4      | QPSK       | 1       | 0         | 22.92           | 22.91             | 22.95            | 24.1                |                     |  |
| 1.4      | QPSK       | 1       | 3         | 22.96           | 22.95             | 22.94            |                     |                     |  |
| 1.4      | QPSK       | 1       | 5         | 22.93           | 22.94             | 22.95            |                     |                     |  |
| 1.4      | QPSK       | 3       | 0         | 23.01           | 22.96             | 22.98            |                     |                     |  |
| 1.4      | QPSK       | 3       | 1         | 22.99           | 22.91             | 22.90            | 24.1                |                     |  |
| 1.4      | QPSK       | 3       | 3         | 22.94           | 22.93             | 22.95            |                     |                     |  |
| 1.4      | QPSK       | 6       | 0         | 22.92           | 22.94             | 22.87            |                     |                     |  |
| 1.4      | 16QAM      | 1       | 0         | 23.27           | 23.35             | 23.29            |                     |                     |  |
| 1.4      | 16QAM      | 1       | 3         | 23.17           | 23.14             | 23.13            | 24.1                |                     |  |
| 1.4      | 16QAM      | 1       | 6         | 23.10           | 23.08             | 22.97            |                     |                     |  |
| 1.4      | 16QAM      | 3       | 0         | 22.75           | 22.73             | 22.76            |                     |                     |  |
| 1.4      | 16QAM      | 3       | 1         | 22.73           | 22.72             | 22.70            |                     |                     |  |
| 1.4      | 16QAM      | 3       | 3         | 22.74           | 22.73             | 22.74            | 23.6                |                     |  |
| 1.4      | 16QAM      | 6       | 0         | 22.55           | 22.61             | 22.48            |                     |                     |  |
| 1.4      | 64QAM      | 1       | 0         | 22.64           | 22.81             | 21.99            |                     |                     |  |
| 1.4      | 64QAM      | 1       | 3         | 22.54           | 22.04             | 22.59            |                     |                     |  |
| 1.4      | 64QAM      | 1       | 5         | 22.59           | 21.75             | 22.60            | 23.6                |                     |  |
| 1.4      | 64QAM      | 3       | 0         | 21.72           | 21.77             | 21.75            | 23.6                |                     |  |
| 1.4      | 64QAM      | 3       | 1         | 21.77           | 21.76             | 21.76            |                     |                     |  |
| 1.4      | 64QAM      | 3       | 2         | 21.74           | 21.76             | 21.78            |                     |                     |  |
| 1.4      | 64QAM      | 3       | 3         | 21.76           | 21.76             | 21.78            |                     |                     |  |





| Band 5          |            |         |           |                                             |                                |                     |                     |
|-----------------|------------|---------|-----------|---------------------------------------------|--------------------------------|---------------------|---------------------|
| Arct 0          |            |         |           |                                             |                                |                     |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Low Ch. /<br>20450                          | Mid Ch. /<br>20525             | High Ch. /<br>20600 | Time up limit (dBm) |
| Channel         |            |         |           | 829                                         | 836.5                          | 844                 |                     |
| Frequency (MHz) |            |         |           |                                             |                                |                     |                     |
| 10              | QPSK       | 1       | 0         | 24.76                                       | 24.62                          | 24.62               | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58                                       | 24.62                          | 24.62               |                     |
| 10              | QPSK       | 1       | 49        | 24.58                                       | 24.62                          | 24.26               |                     |
| 10              | QPSK       | 25      | 12        | 23.75                                       | 23.74                          | 23.72               |                     |
| 10              | QPSK       | 25      | 25        | 23.72                                       | 23.78                          | 23.73               | 24.7                |
| 10              | QPSK       | 50      | 0         | 23.75                                       | 23.70                          | 23.73               |                     |
| 10              | 16QAM      | 1       | 0         | 24.01                                       | 24.01                          | 23.99               |                     |
| 10              | 16QAM      | 1       | 49        | 24.00                                       | 24.04                          | 23.60               |                     |
| 10              | 16QAM      | 25      | 0         | 22.66                                       | 22.74                          | 22.71               | 23.7                |
| 10              | 16QAM      | 25      | 12        | 22.76                                       | 22.72                          | 22.75               |                     |
| 10              | 16QAM      | 25      | 25        | 22.72                                       | 22.76                          | 22.75               |                     |
| 10              | 16QAM      | 50      | 0         | 22.77                                       | 22.74                          | 22.75               |                     |
| 10              | 64QAM      | 1       | 0         | 22.88                                       | 22.88                          | 22.87               | 23.7                |
| 10              | 64QAM      | 1       | 26        | 22.92                                       | 22.85                          | 22.85               |                     |
| 10              | 64QAM      | 1       | 49        | 22.89                                       | 22.48                          | 21.77               |                     |
| 10              | 64QAM      | 25      | 0         | 21.67                                       | 21.78                          | 21.78               |                     |
| 10              | 64QAM      | 25      | 12        | 21.80                                       | 21.77                          | 21.68               | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.76                                       | 21.64                          | 21.69               |                     |
| 10              | 64QAM      | 50      | 0         | 21.79                                       | 21.74                          | 21.27               |                     |
| Channel         |            |         |           | 829.5                                       | 836.5                          | 846.5               |                     |
| Frequency (MHz) |            |         |           | 829.5 <th>836.5<th>846.5<th></th></th></th> | 836.5 <th>846.5<th></th></th>  | 846.5 <th></th>     |                     |
| 5               | QPSK       | 1       | 0         | 24.75                                       | 24.68                          | 24.67               | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.65                                       | 24.72                          | 24.40               |                     |
| 5               | QPSK       | 1       | 24        | 24.61                                       | 24.65                          | 24.19               |                     |
| 5               | QPSK       | 12      | 0         | 23.77                                       | 23.72                          | 23.75               |                     |
| 5               | QPSK       | 12      | 7         | 23.73                                       | 23.78                          | 23.42               | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.70                                       | 23.74                          | 23.13               |                     |
| 5               | QPSK       | 25      | 0         | 23.74                                       | 23.70                          | 23.60               |                     |
| 5               | 16QAM      | 1       | 0         | 24.08                                       | 24.03                          | 24.01               |                     |
| 5               | 16QAM      | 1       | 12        | 23.99                                       | 24.03                          | 23.67               | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.96                                       | 23.99                          | 23.34               |                     |
| 5               | 16QAM      | 12      | 0         | 22.81                                       | 22.77                          | 22.75               |                     |
| 5               | 16QAM      | 12      | 7         | 22.78                                       | 22.81                          | 22.61               |                     |
| 5               | 16QAM      | 12      | 13        | 22.74                                       | 22.75                          | 22.31               | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.75                                       | 22.72                          | 22.69               |                     |
| 5               | 64QAM      | 1       | 0         | 22.75                                       | 22.94                          | 22.62               |                     |
| 5               | 64QAM      | 1       | 12        | 22.96                                       | 22.85                          | 21.96               |                     |
| 5               | 64QAM      | 1       | 24        | 22.85                                       | 22.82                          | 21.71               | 23.7                |
| 5               | 64QAM      | 12      | 0         | 21.73                                       | 21.80                          | 21.31               |                     |
| 5               | 64QAM      | 12      | 7         | 21.80                                       | 21.79                          | 20.75               |                     |
| 5               | 64QAM      | 12      | 13        | 21.76                                       | 21.86                          | 20.71               |                     |
| 5               | 64QAM      | 25      | 0         | 21.73                                       | 21.76                          | 20.81               | 22.7                |
| Channel         |            |         |           | 20415                                       | 20525                          | 20635               | Time-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.5 <th>836.5<th>847.5<th></th></th></th> | 836.5 <th>847.5<th></th></th>  | 847.5 <th></th>     |                     |
| 3               | QPSK       | 1       | 0         | 24.70                                       | 24.66                          | 24.62               | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.67                                       | 24.70                          | 24.11               |                     |
| 3               | QPSK       | 1       | 14        | 24.54                                       | 24.62                          | 24.05               |                     |
| 3               | QPSK       | 8       | 0         | 23.76                                       | 23.73                          | 23.36               |                     |
| 3               | QPSK       | 8       | 4         | 23.68                                       | 23.74                          | 23.21               | 24.7                |
| 3               | QPSK       | 8       | 7         | 23.67                                       | 23.72                          | 23.15               |                     |
| 3               | QPSK       | 15      | 0         | 23.72                                       | 23.67                          | 23.20               |                     |
| 3               | 16QAM      | 1       | 0         | 24.01                                       | 23.96                          | 23.87               |                     |
| 3               | 16QAM      | 1       | 8         | 23.99                                       | 24.02                          | 23.50               | 24.7                |
| 3               | 16QAM      | 1       | 14        | 23.99                                       | 23.92                          | 23.42               |                     |
| 3               | 16QAM      | 8       | 0         | 22.83                                       | 22.76                          | 22.54               |                     |
| 3               | 16QAM      | 8       | 4         | 22.79                                       | 22.80                          | 22.36               |                     |
| 3               | 16QAM      | 8       | 7         | 22.75                                       | 22.78                          | 22.29               | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.77                                       | 22.69                          | 22.43               |                     |
| 3               | 64QAM      | 1       | 0         | 22.85                                       | 22.90                          | 21.99               |                     |
| 3               | 64QAM      | 1       | 8         | 22.86                                       | 22.97                          | 21.74               |                     |
| 3               | 64QAM      | 1       | 14        | 22.84                                       | 22.82                          | 21.71               | 22.7                |
| 3               | 64QAM      | 8       | 0         | 21.61                                       | 21.75                          | 20.73               |                     |
| 3               | 64QAM      | 8       | 4         | 21.69                                       | 21.82                          | 20.72               |                     |
| 3               | 64QAM      | 8       | 7         | 21.70                                       | 21.76                          | 20.71               |                     |
| 3               | 64QAM      | 15      | 0         | 21.74                                       | 21.69                          | 20.78               | Time-up limit (dBm) |
| Channel         |            |         |           | 20407                                       | 20525                          | 20643               | Time-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.7 <th>836.5<th>848.3</th><th></th></th> | 836.5 <th>848.3</th> <th></th> | 848.3               |                     |
| 1.4             | QPSK       | 1       | 0         | 24.50                                       | 24.53                          | 23.98               | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.59                                       | 24.61                          | 24.06               |                     |
| 1.4             | QPSK       | 1       | 5         | 24.51                                       | 24.53                          | 24.06               |                     |
| 1.4             | QPSK       | 3       | 0         | 24.62                                       | 24.57                          | 23.95               |                     |
| 1.4             | QPSK       | 3       | 1         | 24.62                                       | 24.57                          | 24.06               | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.60                                       | 24.58                          | 24.12               |                     |
| 1.4             | QPSK       | 6       | 0         | 23.64                                       | 23.64                          | 23.06               |                     |
| 1.4             | 16QAM      | 1       | 0         | 23.88                                       | 23.88                          | 23.28               |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.93                                       | 23.95                          | 23.38               | 24.7                |
| 1.4             | 16QAM      | 1       | 5         | 23.83                                       | 23.89                          | 23.43               |                     |
| 1.4             | 16QAM      | 3       | 0         | 23.67                                       | 23.62                          | 23.14               |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.71                                       | 23.66                          | 23.17               |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.64                                       | 23.67                          | 23.21               | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71                                       | 22.74                          | 22.28               |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.64                                       | 22.80                          | 21.77               |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.68                                       | 22.88                          | 21.78               |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.62                                       | 22.79                          | 21.73               | 23.7                |
| 1.4             | 64QAM      | 3       | 0         | 22.61                                       | 22.78                          | 21.72               |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.66                                       | 22.79                          | 21.77               |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.64                                       | 22.79                          | 21.77               |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.50                                       | 21.69                          | 20.74               | 22.7                |



| Band 7          |            |         |           |                    |                    |                     |                        |  |  |  |  |
|-----------------|------------|---------|-----------|--------------------|--------------------|---------------------|------------------------|--|--|--|--|
| Ar 2            |            |         |           |                    |                    |                     |                        |  |  |  |  |
| BN (MHz)        | Modulation | RB Size | RB Offset | Low Ch. /<br>20650 | Mid Ch. /<br>21100 | High Ch. /<br>21550 | Tune-up<br>limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 2510               | 2535               | 2560                |                        |  |  |  |  |
| Frequency (MHz) |            |         |           |                    |                    |                     |                        |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 23.88              | 23.95              | 23.99               | 24.9                   |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 23.94              | 23.99              | 23.98               |                        |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 23.99              | 24.08              | 24.04               |                        |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.80              | 23.88              | 23.88               | 24.4                   |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.95              | 23.91              | 23.90               |                        |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.95              | 24.03              | 24.02               |                        |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.90              | 23.91              | 23.90               | 24.4                   |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 24.02              | 24.08              | 24.14               |                        |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 24.10              | 24.16              | 24.15               |                        |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 24.15              | 24.26              | 24.16               | 23.4                   |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.83              | 22.88              | 22.91               |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.93              | 22.91              | 22.92               |                        |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.94              | 23.03              | 22.98               | 23.4                   |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.90              | 22.89              | 22.92               |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.87              | 22.95              | 22.99               |                        |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.92              | 23.04              | 22.70               | 22.4                   |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 23.04              | 23.13              | 22.95               |                        |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 21.82              | 21.88              | 21.91               |                        |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 21.95              | 21.94              | 21.75               | 22.4                   |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 21.95              | 22.02              | 21.58               |                        |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.92              | 21.90              | 21.79               |                        |  |  |  |  |
| Channel         |            |         |           | 20655              | 21105              | 21555               | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2507.5             | 2535               | 2562.5              |                        |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 23.91              | 24.01              | 23.99               | 24.9                   |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 23.95              | 24.02              | 24.02               |                        |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 24.01              | 24.10              | 24.04               |                        |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.79              | 23.86              | 23.88               | 24.4                   |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.93              | 23.92              | 23.89               |                        |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.92              | 23.97              | 23.95               |                        |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.86              | 23.87              | 23.88               | 24.4                   |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.99              | 24.11              | 24.13               |                        |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 24.05              | 24.14              | 24.11               |                        |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 24.13              | 24.19              | 24.11               | 23.4                   |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.82              | 22.87              | 22.88               |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.90              | 22.90              | 22.98               |                        |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.93              | 23.00              | 22.95               | 23.4                   |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.90              | 22.90              | 22.90               |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.86              | 22.95              | 22.96               |                        |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.99              | 23.07              | 22.91               | 23.4                   |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 23.04              | 23.12              | 22.99               |                        |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.81              | 21.91              | 21.76               |                        |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.93              | 21.93              | 21.55               | 22.4                   |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.97              | 22.02              | 21.61               |                        |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.90              | 21.90              | 21.60               |                        |  |  |  |  |
| Channel         |            |         |           | 20660              | 21100              | 21600               | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2505               | 2535               | 2565                |                        |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 23.87              | 23.94              | 23.91               | 24.9                   |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 23.88              | 23.93              | 23.92               |                        |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 23.92              | 24.02              | 23.92               |                        |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.85              | 23.86              | 23.80               | 24.4                   |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.87              | 23.90              | 23.86               |                        |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.86              | 23.96              | 23.89               |                        |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.87              | 23.89              | 23.84               | 24.4                   |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 24.05              | 24.11              | 24.09               |                        |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 24.03              | 24.15              | 24.14               |                        |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 24.13              | 24.21              | 24.12               | 23.4                   |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.86              | 22.85              | 22.82               |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.89              | 22.86              | 22.85               |                        |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.87              | 22.95              | 22.89               | 23.4                   |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.85              | 22.88              | 22.84               |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.95              | 22.98              | 22.70               |                        |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.97              | 23.07              | 22.76               | 22.4                   |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 23.01              | 23.12              | 22.89               |                        |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.85              | 21.88              | 21.53               |                        |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.92              | 21.92              | 21.64               | 22.4                   |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.91              | 21.97              | 21.69               |                        |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.88              | 21.92              | 21.52               |                        |  |  |  |  |
| Channel         |            |         |           | 20775              | 21100              | 21625               | Tune-up<br>limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 2502.5             | 2535               | 2567.5              |                        |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 23.91              | 23.93              | 23.94               | 24.9                   |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 23.94              | 24.06              | 23.97               |                        |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 23.95              | 24.04              | 23.95               |                        |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.83              | 23.90              | 23.86               | 24.4                   |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.87              | 23.91              | 23.87               |                        |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.83              | 23.93              | 23.89               |                        |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.83              | 23.86              | 23.84               | 24.4                   |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 24.05              | 24.12              | 24.09               |                        |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 24.06              | 24.15              | 24.06               |                        |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 24.10              | 24.17              | 24.07               | 23.4                   |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.87              | 22.90              | 22.90               |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.89              | 22.94              | 22.87               |                        |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.90              | 22.96              | 22.96               | 23.4                   |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.87              | 22.89              | 22.86               |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.96              | 23.02              | 22.70               |                        |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.96              | 23.08              | 22.72               | 22.4                   |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 23.00              | 23.10              | 22.92               |                        |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.95              | 21.93              | 21.59               |                        |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.89              | 21.95              | 21.69               | 22.4                   |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.92              | 22.02              | 21.75               |                        |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.87              | 21.90              | 21.63               |                        |  |  |  |  |



| Band 12         |            |         |           |             |             |              |                     |
|-----------------|------------|---------|-----------|-------------|-------------|--------------|---------------------|
| Arct 0          |            |         |           |             |             |              |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Low Channel | Mid Channel | High Channel | Time-up limit (dBm) |
| Channel         |            |         |           | 23000       | 23006       | 23130        |                     |
| Frequency (MHz) |            |         |           | 704         | 707.5       | 711          |                     |
| 10              | QPSK       | 1       | 0         | 24.64       | 24.61       | 24.63        | 25.7                |
| 10              | QPSK       | 1       | 26        | 24.63       | 24.68       | 24.65        |                     |
| 10              | QPSK       | 1       | 49        | 24.76       | 24.71       | 24.70        |                     |
| 10              | QPSK       | 25      | 12        | 23.87       | 23.80       | 23.78        |                     |
| 10              | QPSK       | 25      | 26        | 23.88       | 23.85       | 23.83        | 24.7                |
| 10              | QPSK       | 50      | 0         | 23.83       | 23.80       | 23.79        |                     |
| 10              | 16QAM      | 1       | 0         | 24.03       | 23.97       | 23.99        |                     |
| 10              | 16QAM      | 1       | 49        | 24.12       | 24.08       | 24.07        |                     |
| 10              | 16QAM      | 25      | 0         | 22.76       | 22.79       | 22.77        | 23.7                |
| 10              | 16QAM      | 25      | 12        | 22.82       | 22.80       | 22.78        |                     |
| 10              | 16QAM      | 25      | 26        | 22.81       | 22.85       | 22.79        |                     |
| 10              | 16QAM      | 50      | 0         | 22.83       | 22.78       | 22.76        |                     |
| 10              | 64QAM      | 1       | 0         | 22.91       | 22.84       | 22.87        | 23.7                |
| 10              | 64QAM      | 1       | 26        | 22.76       | 22.99       | 22.73        |                     |
| 10              | 64QAM      | 1       | 49        | 23.06       | 22.96       | 22.95        |                     |
| 10              | 64QAM      | 25      | 0         | 21.78       | 21.80       | 21.79        |                     |
| 10              | 64QAM      | 25      | 12        | 21.88       | 21.83       | 21.81        | 22.7                |
| 10              | 64QAM      | 25      | 26        | 21.82       | 21.90       | 21.84        |                     |
| 10              | 64QAM      | 50      | 0         | 21.83       | 21.81       | 21.80        |                     |
| Channel         |            |         |           | 23005       | 23006       | 23135        |                     |
| Frequency (MHz) |            |         |           | 701.5       | 707.5       | 713.5        |                     |
| 5               | QPSK       | 1       | 0         | 24.70       | 24.72       | 24.67        | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.72       | 24.73       | 24.71        |                     |
| 5               | QPSK       | 1       | 24        | 24.69       | 24.71       | 24.72        |                     |
| 5               | QPSK       | 12      | 0         | 23.83       | 23.78       | 23.78        |                     |
| 5               | QPSK       | 12      | 7         | 23.78       | 23.75       | 23.81        | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.75       | 23.82       | 23.77        |                     |
| 5               | QPSK       | 25      | 0         | 23.79       | 23.76       | 23.75        |                     |
| 5               | 16QAM      | 1       | 0         | 24.02       | 24.04       | 23.98        |                     |
| 5               | 16QAM      | 1       | 12        | 24.03       | 24.01       | 24.02        | 23.7                |
| 5               | 16QAM      | 1       | 24        | 24.02       | 24.07       | 24.03        |                     |
| 5               | 16QAM      | 12      | 0         | 22.85       | 22.83       | 22.80        |                     |
| 5               | 16QAM      | 12      | 7         | 22.81       | 22.78       | 22.85        |                     |
| 5               | 16QAM      | 12      | 13        | 22.83       | 22.82       | 22.80        | 22.7                |
| 5               | 16QAM      | 25      | 0         | 22.81       | 22.82       | 22.78        |                     |
| 5               | 64QAM      | 1       | 0         | 22.82       | 22.73       | 22.91        |                     |
| 5               | 64QAM      | 1       | 12        | 22.85       | 22.84       | 22.94        |                     |
| 5               | 64QAM      | 1       | 24        | 22.80       | 22.98       | 22.93        | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.81       | 21.85       | 21.88        |                     |
| 5               | 64QAM      | 12      | 7         | 21.88       | 21.85       | 21.88        |                     |
| 5               | 64QAM      | 12      | 13        | 21.82       | 21.87       | 21.84        |                     |
| 5               | 64QAM      | 25      | 0         | 21.83       | 21.79       | 21.79        | Time-up limit (dBm) |
| Channel         |            |         |           | 23005       | 23006       | 23135        |                     |
| Frequency (MHz) |            |         |           | 700.5       | 707.5       | 714.5        |                     |
| 3               | QPSK       | 1       | 0         | 24.75       | 24.69       | 24.72        | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.73       | 24.74       | 24.73        |                     |
| 3               | QPSK       | 1       | 14        | 24.65       | 24.71       | 24.67        |                     |
| 3               | QPSK       | 8       | 0         | 23.79       | 23.78       | 23.73        |                     |
| 3               | QPSK       | 8       | 4         | 23.78       | 23.74       | 23.77        | 24.7                |
| 3               | QPSK       | 8       | 7         | 23.73       | 23.76       | 23.75        |                     |
| 3               | QPSK       | 15      | 0         | 23.77       | 23.75       | 23.73        |                     |
| 3               | 16QAM      | 1       | 0         | 24.08       | 24.01       | 24.02        |                     |
| 3               | 16QAM      | 1       | 8         | 24.06       | 24.08       | 24.08        | 23.7                |
| 3               | 16QAM      | 1       | 14        | 24.00       | 24.05       | 23.98        |                     |
| 3               | 16QAM      | 8       | 0         | 22.88       | 22.83       | 22.82        |                     |
| 3               | 16QAM      | 8       | 4         | 22.90       | 22.83       | 22.87        |                     |
| 3               | 16QAM      | 8       | 7         | 22.84       | 22.84       | 22.83        | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.80       | 22.80       | 22.75        |                     |
| 3               | 64QAM      | 1       | 0         | 22.87       | 22.90       | 22.95        |                     |
| 3               | 64QAM      | 1       | 8         | 22.91       | 23.01       | 22.98        |                     |
| 3               | 64QAM      | 1       | 14        | 22.92       | 22.95       | 22.88        | 22.7                |
| 3               | 64QAM      | 8       | 0         | 21.82       | 21.81       | 21.81        |                     |
| 3               | 64QAM      | 8       | 4         | 21.87       | 21.84       | 21.87        |                     |
| 3               | 64QAM      | 8       | 7         | 21.82       | 21.85       | 21.81        |                     |
| 3               | 64QAM      | 15      | 0         | 21.65       | 21.78       | 21.77        | Time-up limit (dBm) |
| Channel         |            |         |           | 23017       | 23006       | 23173        |                     |
| Frequency (MHz) |            |         |           | 699.7       | 707.5       | 715.3        |                     |
| 1.4             | QPSK       | 1       | 0         | 24.64       | 24.59       | 24.55        | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.68       | 24.67       | 24.64        |                     |
| 1.4             | QPSK       | 1       | 5         | 24.60       | 24.58       | 24.55        |                     |
| 1.4             | QPSK       | 3       | 0         | 24.67       | 24.60       | 24.62        |                     |
| 1.4             | QPSK       | 3       | 1         | 24.70       | 24.64       | 24.68        | 24.7                |
| 1.4             | QPSK       | 3       | 3         | 24.64       | 24.67       | 24.61        |                     |
| 1.4             | 16QAM      | 1       | 0         | 23.99       | 23.93       | 23.96        |                     |
| 1.4             | 16QAM      | 1       | 3         | 24.02       | 24.02       | 23.98        |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.92       | 23.94       | 23.91        | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.75       | 23.69       | 23.69        |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.81       | 23.75       | 23.75        |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.76       | 23.73       | 23.68        |                     |
| 1.4             | 16QAM      | 6       | 0         | 22.78       | 22.80       | 22.76        | 23.7                |
| 1.4             | 64QAM      | 1       | 0         | 22.73       | 22.89       | 22.85        |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.90       | 22.97       | 22.88        |                     |
| 1.4             | 64QAM      | 1       | 5         | 22.92       | 22.85       | 22.91        |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.68       | 22.81       | 22.82        | 23.7                |
| 1.4             | 64QAM      | 3       | 1         | 22.78       | 22.85       | 22.88        |                     |
| 1.4             | 64QAM      | 3       | 3         | 22.83       | 22.83       | 22.79        |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.72       | 21.75       | 21.71        |                     |



| Band 13         |            |         |           |          |             |           |                     |  |  |  |  |
|-----------------|------------|---------|-----------|----------|-------------|-----------|---------------------|--|--|--|--|
| Arct 0          |            |         |           |          |             |           |                     |  |  |  |  |
| BN (MHz)        | Modulation | RB Size | RB Offset | Low Ch / | Middle Ch / | High Ch / | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 25290    |             |           |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 762      |             |           |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 24.23    |             |           | 25.2                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 24.22    |             |           |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 24.35    |             |           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.30    |             |           |                     |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.34    |             |           | 24.2                |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.33    |             |           |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.35    |             |           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.56    |             |           |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.57    |             |           | 24.2                |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.54    |             |           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.31    |             |           |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.34    |             |           | 23.2                |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.36    |             |           |                     |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.35    |             |           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.30    |             |           |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.52    |             |           | 23.2                |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.46    |             |           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.36    |             |           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.38    |             |           |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.37    |             |           | 22.2                |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.39    |             |           |                     |  |  |  |  |
| Channel         |            |         |           | 23205    | 21205       | 23205     | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 779.9    | 762         | 784.9     |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 24.62    | 24.61       | 24.59     | 25.2                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 24.69    | 24.74       | 24.66     |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 24.64    | 24.62       | 24.54     |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.71    | 23.68       | 23.65     |                     |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.76    | 23.70       | 23.65     | 24.2                |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.70    | 23.69       | 23.63     |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.74    | 23.67       | 23.59     |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.93    | 23.96       | 23.90     |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 24.00    | 23.98       | 23.93     | 24.2                |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.99    | 23.90       | 23.89     |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.79    | 22.71       | 22.65     |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.77    | 22.71       | 22.66     |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.72    | 22.74       | 22.70     | 23.2                |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.75    | 22.71       | 22.62     |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.89    | 22.80       | 22.19     |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.96    | 22.89       | 22.17     | 23.2                |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.33    | 21.97       | 22.69     |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.82    | 21.27       | 20.93     |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.76    | 21.06       | 21.11     |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.44    | 20.86       | 21.53     | 22.2                |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.56    | 21.03       | 21.17     |                     |  |  |  |  |



| Band 14         |            |         |           |                       |                          |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|--|
| Ann 0           |            |         |           |                       |                          |                        |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Low Ch. /<br>F1 (MHz) | Middle Ch. /<br>F2 (MHz) | High Ch. /<br>F3 (MHz) | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 763                   |                          |                        |                     |  |  |
| Frequency (MHz) |            |         |           | 763                   |                          |                        |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.75                 |                          |                        | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.69                 |                          |                        |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.60                 |                          |                        |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.71                 |                          |                        |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.70                 |                          |                        | 24.7                |  |  |
| 10              | QPSK       | 25      | 25        | 23.73                 |                          |                        |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.68                 |                          |                        |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 24.08                 |                          |                        |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 24.08                 |                          |                        | 24.7                |  |  |
| 10              | 16QAM      | 1       | 49        | 23.96                 |                          |                        |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.68                 |                          |                        |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.70                 |                          |                        | 23.7                |  |  |
| 10              | 16QAM      | 25      | 25        | 22.71                 |                          |                        |                     |  |  |
| 10              | 16QAM      | 50      | 0         | 22.70                 |                          |                        |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.92                 |                          |                        |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.86                 |                          |                        | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.90                 |                          |                        |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 21.71                 |                          |                        |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.37                 |                          |                        |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.38                 |                          |                        | 22.7                |  |  |
| 10              | 64QAM      | 50      | 0         | 21.44                 |                          |                        |                     |  |  |
| Channel         |            |         |           | 2330                  | 2333                     | 2336                   | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 790.9                 | 793                      | 795.9                  |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.64                 | 24.61                    | 24.62                  | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.72                 | 24.70                    | 24.69                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.70                 | 24.63                    | 24.66                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.74                 | 23.69                    | 23.64                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.77                 | 23.72                    | 23.68                  | 24.7                |  |  |
| 5               | QPSK       | 12      | 13        | 23.74                 | 23.72                    | 23.68                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.74                 | 23.68                    | 23.64                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 23.97                 | 23.92                    | 23.91                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 24.03                 | 23.99                    | 23.96                  | 24.7                |  |  |
| 5               | 16QAM      | 1       | 24        | 23.99                 | 23.93                    | 23.89                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.79                 | 22.70                    | 22.69                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.81                 | 22.74                    | 22.71                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.75                 | 22.72                    | 22.72                  | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.76                 | 22.72                    | 22.66                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 22.86                 | 22.72                    | 22.34                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 22.94                 | 22.37                    | 22.30                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 22.45                 | 22.18                    | 22.72                  | 23.7                |  |  |
| 5               | 64QAM      | 12      | 0         | 21.82                 | 21.46                    | 21.13                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.85                 | 21.29                    | 21.25                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.60                 | 21.11                    | 21.05                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.69                 | 21.22                    | 21.20                  | 22.7                |  |  |



| Band 17         |            |         |           |                                   |       |       |                  |
|-----------------|------------|---------|-----------|-----------------------------------|-------|-------|------------------|
| Ann 0           |            |         |           |                                   |       |       |                  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Low Ch. / Middle Ch. / High Ch. / |       |       | Tune-up<br>(dBm) |
|                 |            |         |           | Channel                           |       |       |                  |
| Frequency (MHz) |            |         |           | 709                               | 710   | 711   |                  |
| 10              | QPSK       | 1       | 0         | 24.66                             | 24.65 | 24.61 | 24.7             |
| 10              | QPSK       | 1       | 25        | 24.69                             | 24.70 | 24.71 |                  |
| 10              | QPSK       | 1       | 49        | 24.75                             | 24.80 | 24.72 |                  |
| 10              | QPSK       | 25      | 0         | 23.73                             | 23.76 | 23.76 |                  |
| 10              | QPSK       | 25      | 12        | 23.88                             | 23.82 | 23.79 | 24.7             |
| 10              | QPSK       | 25      | 25        | 23.88                             | 23.88 | 23.88 |                  |
| 10              | QPSK       | 50      | 0         | 23.79                             | 23.78 | 23.79 |                  |
| 10              | 16QAM      | 1       | 0         | 24.00                             | 23.99 | 24.01 |                  |
| 10              | 16QAM      | 1       | 49        | 24.12                             | 24.10 | 24.05 | 24.7             |
| 10              | 16QAM      | 25      | 0         | 22.74                             | 22.74 | 22.73 |                  |
| 10              | 16QAM      | 25      | 12        | 22.90                             | 22.79 | 22.81 |                  |
| 10              | 16QAM      | 25      | 25        | 22.89                             | 22.90 | 22.82 |                  |
| 10              | 16QAM      | 50      | 0         | 22.80                             | 22.80 | 22.77 | 23.7             |
| 10              | 64QAM      | 1       | 0         | 22.65                             | 22.75 | 22.88 |                  |
| 10              | 64QAM      | 1       | 25        | 22.71                             | 22.71 | 22.65 |                  |
| 10              | 64QAM      | 1       | 49        | 22.87                             | 22.93 | 22.76 |                  |
| 10              | 64QAM      | 25      | 0         | 21.49                             | 21.50 | 21.47 | 23.7             |
| 10              | 64QAM      | 25      | 12        | 21.61                             | 21.54 | 21.52 |                  |
| 10              | 64QAM      | 25      | 25        | 21.65                             | 21.76 | 21.84 |                  |
| 10              | 64QAM      | 50      | 0         | 21.62                             | 21.68 | 21.62 |                  |
| Channel         |            |         |           | 2175                              | 2176  | 2180  | Tune-up<br>(dBm) |
| Frequency (MHz) |            |         |           | 706.5                             | 710   | 713.5 |                  |
| 5               | QPSK       | 1       | 0         | 24.66                             | 24.66 | 24.65 | 25.7             |
| 5               | QPSK       | 1       | 12        | 24.74                             | 24.79 | 24.75 |                  |
| 5               | QPSK       | 1       | 24        | 24.79                             | 24.79 | 24.79 |                  |
| 5               | QPSK       | 12      | 0         | 23.76                             | 23.76 | 23.79 |                  |
| 5               | QPSK       | 12      | 7         | 23.85                             | 23.81 | 23.82 | 24.7             |
| 5               | QPSK       | 12      | 13        | 23.83                             | 23.86 | 23.83 |                  |
| 5               | QPSK       | 25      | 0         | 23.81                             | 23.79 | 23.82 |                  |
| 5               | 16QAM      | 1       | 0         | 23.99                             | 23.98 | 23.99 |                  |
| 5               | 16QAM      | 1       | 12        | 24.02                             | 24.06 | 24.04 | 24.7             |
| 5               | 16QAM      | 1       | 24        | 24.13                             | 24.14 | 24.10 |                  |
| 5               | 16QAM      | 12      | 0         | 22.79                             | 22.83 | 22.81 |                  |
| 5               | 16QAM      | 12      | 7         | 22.89                             | 22.88 | 22.89 |                  |
| 5               | 16QAM      | 12      | 13        | 22.84                             | 22.88 | 22.84 | 23.7             |
| 5               | 16QAM      | 25      | 0         | 22.85                             | 22.83 | 22.87 |                  |
| 5               | 64QAM      | 1       | 0         | 22.40                             | 22.44 | 22.79 |                  |
| 5               | 64QAM      | 1       | 12        | 22.76                             | 22.80 | 22.94 |                  |
| 5               | 64QAM      | 1       | 24        | 22.55                             | 22.57 | 22.67 | 23.7             |
| 5               | 64QAM      | 12      | 0         | 21.61                             | 21.45 | 21.75 |                  |
| 5               | 64QAM      | 12      | 7         | 21.73                             | 21.52 | 21.85 |                  |
| 5               | 64QAM      | 12      | 13        | 21.65                             | 21.58 | 21.68 |                  |
| 5               | 64QAM      | 25      | 0         | 21.55                             | 21.51 | 21.79 | 22.7             |



| Band 25         |            |         |           |                 |                 |                  |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------|-----------------|------------------|---------------------|--|--|--|--|
| Ann 2           |            |         |           |                 |                 |                  |                     |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Low Ch. / 26140 | Mid Ch. / 26340 | High Ch. / 26690 | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 1800            | 1860            | 1905             |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 1800            | 1860            | 1905             |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 23.09           | 23.12           | 23.02            | 24.2                |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 23.06           | 23.08           | 23.05            |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 23.00           | 23.04           | 23.01            |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.01           | 23.16           | 22.96            | 24.2                |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.02           | 23.28           | 23.04            |                     |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 22.88           | 23.24           | 23.21            |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 22.43           | 23.24           | 22.31            | 24                  |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.09           | 23.43           | 22.58            |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.06           | 23.42           | 22.49            |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 22.40           | 23.41           | 22.22            | 23                  |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.51           | 22.72           | 21.77            |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.07           | 22.79           | 22.07            |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 21.65           | 22.75           | 21.62            | 23                  |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 21.45           | 21.88           | 21.41            |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 21.20           | 21.21           | 21.22            |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 21.22           | 21.74           | 21.24            | 23                  |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 21.20           | 22.09           | 21.23            |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 20.89           | 21.06           | 21.07            |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 20.17           | 21.08           | 20.39            | 22                  |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 20.02           | 21.11           | 20.24            |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 20.00           | 20.03           | 20.04            |                     |  |  |  |  |
| Channel         |            |         |           | 26140           | 26340           | 26690            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1807.5          | 1860            | 1907.5           |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 23.04           | 23.11           | 23.02            | 24.2                |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 23.02           | 23.10           | 23.05            |                     |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 23.00           | 23.04           | 23.06            |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 22.93           | 23.08           | 22.90            | 24.2                |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 22.99           | 23.22           | 23.00            |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 22.81           | 23.15           | 23.18            |                     |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 22.42           | 23.24           | 22.22            | 24                  |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.08           | 23.42           | 22.52            |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.06           | 23.35           | 22.42            |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 22.36           | 23.40           | 22.21            | 23                  |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.47           | 22.67           | 21.74            |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.07           | 22.76           | 21.97            |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 21.64           | 22.69           | 21.85            | 23                  |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 21.45           | 21.98           | 21.38            |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 21.17           | 21.14           | 21.18            |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 21.21           | 21.64           | 21.24            | 23                  |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 21.16           | 22.01           | 21.15            |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 20.79           | 20.96           | 21.03            |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 20.07           | 21.06           | 20.38            | 22                  |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 20.11           | 21.04           | 20.10            |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 20.15           | 20.30           | 20.12            |                     |  |  |  |  |
| Channel         |            |         |           | 26690           | 26340           | 26640            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1800            | 1860            | 1910             |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 23.07           | 23.07           | 23.02            | 24.2                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 23.03           | 23.02           | 23.01            |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 23.01           | 23.00           | 23.03            |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 22.99           | 23.10           | 22.96            | 24.2                |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 22.99           | 23.21           | 23.00            |                     |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.86           | 23.24           | 23.21            |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.35           | 23.15           | 22.50            | 24                  |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.01           | 23.35           | 22.50            |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.08           | 23.34           | 22.42            |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 22.36           | 23.32           | 22.13            | 23                  |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.49           | 22.71           | 21.76            |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.02           | 22.79           | 22.06            |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 21.57           | 22.70           | 21.83            | 23                  |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 21.37           | 21.90           | 21.43            |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 21.14           | 21.11           | 21.18            |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 21.17           | 21.72           | 21.17            | 23                  |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 21.19           | 21.99           | 21.17            |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 20.88           | 21.02           | 20.98            |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 20.08           | 20.98           | 20.28            | 22                  |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 20.03           | 21.11           | 20.21            |                     |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 20.05           | 20.10           | 20.02            |                     |  |  |  |  |
| Channel         |            |         |           | 26085           | 26340           | 26095            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1802.5          | 1860            | 1912.5           |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 23.06           | 23.02           | 23.01            | 24.2                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 23.04           | 23.04           | 23.00            |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 23.05           | 23.03           | 23.02            |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.95           | 23.15           | 22.91            | 24.2                |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 22.93           | 23.23           | 23.01            |                     |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.78           | 23.17           | 23.26            |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 22.34           | 23.20           | 22.27            | 24                  |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.02           | 23.38           | 22.54            |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.07           | 23.32           | 22.43            |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 22.34           | 23.37           | 22.19            | 24                  |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.47           | 22.64           | 21.76            |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.04           | 22.76           | 22.05            |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 21.59           | 22.88           | 21.92            | 24                  |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 21.41           | 21.91           | 21.42            |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 21.13           | 21.16           | 21.14            |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 21.13           | 21.73           | 21.24            | 23                  |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 21.12           | 22.09           | 21.14            |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 20.84           | 20.99           | 21.07            |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 20.17           | 21.06           | 20.36            | 22                  |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 20.00           | 21.10           | 20.16            |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 20.02           | 20.07           | 20.00            |                     |  |  |  |  |
| Channel         |            |         |           | 26095           | 26340           | 26075            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1801.5          | 1860            | 1913.5           |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 23.03           | 23.09           | 23.04            | 24.2                |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 23.01           | 23.07           | 23.02            |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 23.05           | 23.04           | 23.06            |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.94           | 23.06           | 22.47            | 24.2                |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 22.95           | 23.20           | 22.98            |                     |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.85           | 23.23           | 23.22            |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 22.36           | 23.21           | 22.24            | 24                  |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.01           | 23.40           | 22.52            |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 23.04           | 23.36           | 22.46            |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 22.30           | 23.32           | 22.14            | 24                  |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.51           | 22.64           | 21.71            |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 21.98           | 22.75           | 22.05            |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 21.62           | 22.72           | 21.91            | 23                  |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 21.35           | 21.94           | 21.37            |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 21.11           | 21.19           | 21.18            |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 21.12           | 21.68           | 21.17            | 23                  |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 21.17           | 22.02           | 21.15            |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 20.89           | 21.03           | 21.00            |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 20.13           | 21.02           | 20.31            | 22                  |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 20.03           | 21.02           | 20.15            |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 20.05           | 20.00           | 20.05            |                     |  |  |  |  |
| Channel         |            |         |           | 26047           | 26340           | 26063            | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1800.7          | 1860            | 1914.3           |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 23.02           | 23.03           | 23.02            | 24.2                |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 23.05           | 23.01           | 23.05            |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 23.04           | 23.00           | 23.06            |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 23.02           | 23.16           | 23.00            | 24.2                |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.01           | 23.19           | 23.03            |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.05           | 23.15           | 23.24            |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.34           | 23.18           | 22.26            | 24.2                |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 23.02           | 23.38           | 22.57            |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.08           | 23.34           | 22.44            |                     |  |  |  |  |



| Band 26         |            |         |           |                       |                         |                        |                           |  |  |  |  |
|-----------------|------------|---------|-----------|-----------------------|-------------------------|------------------------|---------------------------|--|--|--|--|
| Ann 0           |            |         |           |                       |                         |                        |                           |  |  |  |  |
| RBW (MHz)       | Modulation | RB Size | RB Offset | Low<br>Ch. /<br>26765 | Midle<br>Ch. /<br>26865 | High<br>Ch. /<br>26965 | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Channel         |            |         |           | 821.5                 | 831.5                   | 841.5                  |                           |  |  |  |  |
| Frequency (MHz) |            |         |           | 26760                 | 26860                   | 26960                  |                           |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 24.76                 | 24.52                   | 24.57                  | 25.7                      |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 24.46                 | 24.51                   | 24.50                  |                           |  |  |  |  |
| 15              | QPSK       | 1       | 74        | 24.49                 | 24.48                   | 24.27                  |                           |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.67                 | 23.65                   | 23.65                  |                           |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.66                 | 23.61                   | 23.63                  | 24.7                      |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 23.60                 | 23.63                   | 23.64                  |                           |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.68                 | 23.60                   | 23.62                  |                           |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.93                 | 23.86                   | 23.88                  |                           |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.82                 | 23.86                   | 23.86                  | 24.7                      |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.81                 | 23.83                   | 23.82                  |                           |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.63                 | 22.66                   | 22.67                  |                           |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.65                 | 22.61                   | 22.60                  |                           |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.59                 | 22.65                   | 22.62                  | 23.7                      |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.67                 | 22.62                   | 22.65                  |                           |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.78                 | 22.72                   | 22.72                  |                           |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.70                 | 22.80                   | 22.76                  | 23.7                      |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.69                 | 22.72                   | 22.70                  |                           |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.69                 | 21.69                   | 21.72                  |                           |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.69                 | 21.63                   | 21.65                  |                           |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.65                 | 21.71                   | 21.58                  | 22.7                      |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.69                 | 21.63                   | 21.63                  |                           |  |  |  |  |
| Channel         |            |         |           | 26740                 | 26840                   | 26940                  | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 819                   | 831.5                   | 844                    |                           |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 24.72                 | 24.59                   | 24.60                  | 25.7                      |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 24.57                 | 24.55                   | 24.59                  |                           |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 24.60                 | 24.64                   | 24.38                  |                           |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.74                 | 23.66                   | 23.68                  |                           |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.76                 | 23.66                   | 23.65                  | 24.7                      |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 23.65                 | 23.68                   | 23.67                  |                           |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 23.70                 | 23.65                   | 23.66                  |                           |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 24.07                 | 23.98                   | 23.98                  |                           |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.94                 | 24.01                   | 23.97                  | 24.7                      |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.97                 | 24.02                   | 23.73                  |                           |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.74                 | 22.69                   | 22.66                  |                           |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.76                 | 22.71                   | 22.67                  |                           |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.64                 | 22.63                   | 22.63                  | 23.7                      |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.72                 | 22.66                   | 22.63                  |                           |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.84                 | 22.78                   | 22.88                  |                           |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.90                 | 22.85                   | 22.93                  | 23.7                      |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.89                 | 22.91                   | 21.83                  |                           |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.80                 | 21.71                   | 21.72                  |                           |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.78                 | 21.69                   | 21.72                  |                           |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.68                 | 21.70                   | 21.71                  | 22.7                      |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.72                 | 21.68                   | 21.50                  |                           |  |  |  |  |
| Channel         |            |         |           | 26715                 | 26815                   | 26915                  | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 816.5                 | 831.5                   | 846.5                  |                           |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 24.75                 | 24.61                   | 24.68                  | 25.7                      |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 24.72                 | 24.63                   | 24.47                  |                           |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 24.56                 | 24.64                   | 24.43                  |                           |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 23.79                 | 23.72                   | 23.74                  |                           |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.80                 | 23.72                   | 23.57                  | 24.7                      |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 23.71                 | 23.67                   | 23.31                  |                           |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.76                 | 23.67                   | 23.64                  |                           |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 24.09                 | 23.94                   | 23.99                  |                           |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 24.00                 | 23.97                   | 23.85                  | 24.7                      |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.91                 | 24.01                   | 23.71                  |                           |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.84                 | 22.72                   | 22.73                  |                           |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.81                 | 22.76                   | 22.71                  | 23.7                      |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.73                 | 22.68                   | 22.44                  |                           |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.78                 | 22.66                   | 22.72                  |                           |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.69                 | 22.90                   | 22.83                  | 23.7                      |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.90                 | 22.88                   | 22.63                  |                           |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.81                 | 22.89                   | 21.86                  |                           |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.83                 | 21.78                   | 21.45                  |                           |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.84                 | 21.81                   | 21.00                  | 22.7                      |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.74                 | 21.79                   | 20.80                  |                           |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.77                 | 21.69                   | 20.99                  |                           |  |  |  |  |
| Channel         |            |         |           | 26705                 | 26865                   | 27025                  | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 815.5                 | 831.5                   | 847.5                  |                           |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 24.72                 | 24.62                   | 24.52                  | 25.7                      |  |  |  |  |
| 3               | QPSK       | 1       | 8         | 24.75                 | 24.69                   | 24.16                  |                           |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 24.63                 | 24.66                   | 24.26                  |                           |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 23.83                 | 23.66                   | 23.39                  |                           |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.71                 | 23.72                   | 23.29                  | 24.7                      |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 23.74                 | 23.70                   | 23.28                  |                           |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.78                 | 23.67                   | 23.30                  |                           |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 24.09                 | 23.91                   | 23.81                  |                           |  |  |  |  |
| 3               | 16QAM      | 1       | 8         | 24.06                 | 24.06                   | 23.47                  | 24.7                      |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.95                 | 23.95                   | 23.55                  |                           |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.86                 | 22.77                   | 22.54                  |                           |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.88                 | 22.77                   | 22.42                  | 23.7                      |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.78                 | 22.76                   | 22.46                  |                           |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.78                 | 22.70                   | 22.47                  |                           |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.72                 | 22.83                   | 22.00                  | 23.7                      |  |  |  |  |
| 3               | 64QAM      | 1       | 8         | 23.03                 | 22.95                   | 21.88                  |                           |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.96                 | 22.90                   | 21.93                  |                           |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.79                 | 21.74                   | 20.85                  |                           |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.88                 | 21.81                   | 20.77                  | 22.7                      |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.81                 | 21.72                   | 20.92                  |                           |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.81                 | 21.67                   | 20.96                  |                           |  |  |  |  |
| Channel         |            |         |           | 26695                 | 26865                   | 27035                  | Tune-up<br>limit<br>(dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 814.7                 | 831.5                   | 848.3                  |                           |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 24.69                 | 24.52                   | 24.13                  | 25.7                      |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 24.71                 | 24.63                   | 24.26                  |                           |  |  |  |  |
| 1.4             | QPSK       | 1       | 6         | 24.61                 | 24.55                   | 24.29                  |                           |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 24.69                 | 24.55                   | 24.17                  |                           |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 24.74                 | 24.58                   | 24.22                  | 24.7                      |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 24.67                 | 24.55                   | 24.37                  |                           |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 23.71                 | 23.63                   | 23.29                  |                           |  |  |  |  |
| 1.4             | 16QAM      | 1       | 0         | 24.01                 | 23.86                   | 23.40                  |                           |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 24.04                 | 23.96                   | 23.59                  | 24.7                      |  |  |  |  |
| 1.4             | 16QAM      | 1       | 6         | 23.93                 | 23.86                   | 23.69                  |                           |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 23.75                 | 23.65                   | 23.27                  |                           |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 23.75                 | 23.65                   | 23.30                  |                           |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 23.71                 | 23.67                   | 23.46                  | 23.7                      |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.82                 | 22.75                   | 22.46                  |                           |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.74                 | 22.76                   | 21.86                  |                           |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.86                 | 22.89                   | 21.90                  | 23.7                      |  |  |  |  |
| 1.4             | 64QAM      | 1       | 6         | 22.86                 | 22.78                   | 21.85                  |                           |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 22.76                 | 22.73                   | 21.85                  |                           |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.82                 | 22.82                   | 21.93                  |                           |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 22.84                 | 22.78                   | 21.86                  | 22.7                      |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.65                 | 21.68                   | 20.87                  |                           |  |  |  |  |





| Band 30         |            |         |           |                 |                   |                 |                     |
|-----------------|------------|---------|-----------|-----------------|-------------------|-----------------|---------------------|
| Ann 2           |            |         |           |                 |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Low Ch. / 2310  | Middle Ch. / 2310 | High Ch. / 2310 | Tune-up limit (dBm) |
| Channel         |            |         |           | Frequency (MHz) |                   |                 |                     |
|                 |            |         |           | 2310            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         | 23.02           |                   |                 | 23.7                |
| 10              | QPSK       | 1       | 25        | 23.01           |                   |                 |                     |
| 10              | QPSK       | 1       | 49        | 22.92           |                   |                 |                     |
| 10              | QPSK       | 25      | 0         | 21.98           |                   |                 | 22.7                |
| 10              | QPSK       | 25      | 12        | 22.00           |                   |                 |                     |
| 10              | QPSK       | 25      | 25        | 22.11           |                   |                 |                     |
| 10              | QPSK       | 50      | 0         | 22.30           |                   |                 | 22.7                |
| 10              | 16QAM      | 1       | 0         | 22.30           |                   |                 |                     |
| 10              | 16QAM      | 1       | 25        | 22.28           |                   |                 |                     |
| 10              | 16QAM      | 1       | 49        | 22.31           |                   |                 | 21.7                |
| 10              | 16QAM      | 25      | 0         | 20.98           |                   |                 |                     |
| 10              | 16QAM      | 25      | 12        | 20.98           |                   |                 |                     |
| 10              | 16QAM      | 25      | 25        | 21.11           |                   |                 | 20.7                |
| 10              | 16QAM      | 50      | 0         | 20.98           |                   |                 |                     |
| 10              | 64QAM      | 1       | 0         | 21.18           |                   |                 |                     |
| 10              | 64QAM      | 1       | 25        | 21.21           |                   |                 | 21.7                |
| 10              | 64QAM      | 1       | 49        | 21.22           |                   |                 |                     |
| 10              | 64QAM      | 25      | 0         | 19.98           |                   |                 |                     |
| 10              | 64QAM      | 25      | 12        | 20.04           |                   |                 | 20.7                |
| 10              | 64QAM      | 25      | 25        | 20.13           |                   |                 |                     |
| 10              | 64QAM      | 50      | 0         | 20.02           |                   |                 |                     |
| Channel         |            |         |           | 2786            | 2770              | 2775            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5          | 2310              | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 22.86           | 22.86             | 22.88           | 23.7                |
| 5               | QPSK       | 1       | 12        | 22.99           | 23.01             | 22.99           |                     |
| 5               | QPSK       | 1       | 24        | 23.01           | 23.00             | 22.96           |                     |
| 5               | QPSK       | 12      | 0         | 22.02           | 21.96             | 21.97           | 22.7                |
| 5               | QPSK       | 12      | 7         | 22.08           | 22.07             | 22.05           |                     |
| 5               | QPSK       | 12      | 13        | 22.06           | 22.06             | 22.03           |                     |
| 5               | QPSK       | 25      | 0         | 22.04           | 21.99             | 22.00           | 22.7                |
| 5               | 16QAM      | 1       | 0         | 22.17           | 22.16             | 22.19           |                     |
| 5               | 16QAM      | 1       | 12        | 22.28           | 22.25             | 22.21           |                     |
| 5               | 16QAM      | 1       | 24        | 22.32           | 22.32             | 22.30           | 21.7                |
| 5               | 16QAM      | 12      | 0         | 21.06           | 21.01             | 21.03           |                     |
| 5               | 16QAM      | 12      | 7         | 21.09           | 21.09             | 21.08           |                     |
| 5               | 16QAM      | 12      | 13        | 21.07           | 21.10             | 21.05           | 21.7                |
| 5               | 16QAM      | 25      | 0         | 21.05           | 21.02             | 21.02           |                     |
| 5               | 64QAM      | 1       | 0         | 21.11           | 21.14             | 21.15           |                     |
| 5               | 64QAM      | 1       | 12        | 21.19           | 21.20             | 21.16           | 21.7                |
| 5               | 64QAM      | 1       | 24        | 21.25           | 21.22             | 21.22           |                     |
| 5               | 64QAM      | 12      | 0         | 20.09           | 20.02             | 20.07           |                     |
| 5               | 64QAM      | 12      | 7         | 20.15           | 20.14             | 20.10           | 20.7                |
| 5               | 64QAM      | 12      | 13        | 20.11           | 20.11             | 20.10           |                     |
| 5               | 64QAM      | 25      | 0         | 20.10           | 20.01             | 20.02           |                     |



| Band 66         |            |         |           |           |           |            |                     |  |  |  |  |
|-----------------|------------|---------|-----------|-----------|-----------|------------|---------------------|--|--|--|--|
| Arct 2          |            |         |           |           |           |            |                     |  |  |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Low Ch. / | Mid Ch. / | High Ch. / | Tune-up limit (dBm) |  |  |  |  |
| Channel         |            |         |           | 150072    | 150322    | 150572     |                     |  |  |  |  |
| Frequency (MHz) |            |         |           | 1720      | 1745      | 1770       |                     |  |  |  |  |
| 20              | QPSK       | 1       | 0         | 22.96     | 22.88     | 22.80      | 24.1                |  |  |  |  |
| 20              | QPSK       | 1       | 49        | 22.82     | 22.68     | 22.67      |                     |  |  |  |  |
| 20              | QPSK       | 1       | 99        | 22.87     | 22.70     | 22.60      |                     |  |  |  |  |
| 20              | QPSK       | 50      | 0         | 23.07     | 22.90     | 22.84      |                     |  |  |  |  |
| 20              | QPSK       | 50      | 24        | 23.08     | 22.93     | 22.85      | 24.1                |  |  |  |  |
| 20              | QPSK       | 50      | 50        | 23.03     | 22.89     | 22.84      |                     |  |  |  |  |
| 20              | QPSK       | 100     | 0         | 23.06     | 22.90     | 22.80      |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 0         | 23.29     | 23.23     | 23.19      | 24.1                |  |  |  |  |
| 20              | 16QAM      | 1       | 49        | 23.18     | 23.00     | 22.90      |                     |  |  |  |  |
| 20              | 16QAM      | 1       | 99        | 23.21     | 23.00     | 22.91      |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 0         | 22.88     | 22.50     | 22.49      |                     |  |  |  |  |
| 20              | 16QAM      | 50      | 24        | 22.87     | 22.54     | 22.45      | 23.6                |  |  |  |  |
| 20              | 16QAM      | 50      | 50        | 22.84     | 22.50     | 22.47      |                     |  |  |  |  |
| 20              | 16QAM      | 100     | 0         | 22.83     | 22.51     | 22.46      |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 0         | 22.73     | 22.06     | 22.55      | 23.6                |  |  |  |  |
| 20              | 64QAM      | 1       | 49        | 22.69     | 22.54     | 22.48      |                     |  |  |  |  |
| 20              | 64QAM      | 1       | 99        | 22.74     | 22.55     | 22.46      |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 0         | 21.69     | 21.24     | 21.50      |                     |  |  |  |  |
| 20              | 64QAM      | 50      | 24        | 21.70     | 21.54     | 21.46      | 22.6                |  |  |  |  |
| 20              | 64QAM      | 50      | 50        | 21.66     | 21.49     | 21.48      |                     |  |  |  |  |
| 20              | 64QAM      | 100     | 0         | 21.68     | 21.52     | 21.45      |                     |  |  |  |  |
| Channel         |            |         |           | 150572    | 150322    | 150072     | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1717.5    | 1745      | 1772.5     |                     |  |  |  |  |
| 15              | QPSK       | 1       | 0         | 22.84     | 22.88     | 22.74      | 24.1                |  |  |  |  |
| 15              | QPSK       | 1       | 37        | 22.82     | 22.67     | 22.57      |                     |  |  |  |  |
| 15              | QPSK       | 36      | 0         | 23.06     | 22.80     | 22.80      |                     |  |  |  |  |
| 15              | QPSK       | 36      | 20        | 23.07     | 22.86     | 22.75      |                     |  |  |  |  |
| 15              | QPSK       | 36      | 39        | 22.95     | 22.85     | 22.78      | 24.1                |  |  |  |  |
| 15              | QPSK       | 75      | 0         | 23.05     | 22.83     | 22.77      |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 0         | 23.24     | 23.19     | 23.12      |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 37        | 23.11     | 23.03     | 22.98      |                     |  |  |  |  |
| 15              | 16QAM      | 1       | 74        | 23.21     | 22.97     | 22.81      | 24.1                |  |  |  |  |
| 15              | 16QAM      | 36      | 0         | 22.88     | 22.50     | 22.44      |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 20        | 22.81     | 22.51     | 22.39      |                     |  |  |  |  |
| 15              | 16QAM      | 36      | 39        | 22.59     | 22.40     | 22.40      |                     |  |  |  |  |
| 15              | 16QAM      | 75      | 0         | 22.55     | 22.43     | 22.36      | 23.6                |  |  |  |  |
| 15              | 64QAM      | 1       | 0         | 22.69     | 22.05     | 22.50      |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 37        | 22.66     | 22.54     | 22.42      |                     |  |  |  |  |
| 15              | 64QAM      | 1       | 74        | 22.74     | 22.47     | 22.45      | 23.6                |  |  |  |  |
| 15              | 64QAM      | 36      | 0         | 21.64     | 21.15     | 21.42      |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 20        | 21.62     | 21.47     | 21.37      |                     |  |  |  |  |
| 15              | 64QAM      | 36      | 39        | 21.62     | 21.42     | 21.40      |                     |  |  |  |  |
| 15              | 64QAM      | 75      | 0         | 21.85     | 21.43     | 21.44      | 22.6                |  |  |  |  |
| Channel         |            |         |           | 150572    | 150322    | 150072     | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1715      | 1745      | 1775       |                     |  |  |  |  |
| 10              | QPSK       | 1       | 0         | 22.94     | 22.81     | 22.74      | 24.1                |  |  |  |  |
| 10              | QPSK       | 1       | 25        | 22.78     | 22.68     | 22.61      |                     |  |  |  |  |
| 10              | QPSK       | 1       | 49        | 22.78     | 22.65     | 22.55      |                     |  |  |  |  |
| 10              | QPSK       | 25      | 0         | 23.00     | 22.84     | 22.79      |                     |  |  |  |  |
| 10              | QPSK       | 25      | 12        | 23.01     | 22.86     | 22.82      | 24.1                |  |  |  |  |
| 10              | QPSK       | 25      | 25        | 22.99     | 22.80     | 22.76      |                     |  |  |  |  |
| 10              | QPSK       | 50      | 0         | 22.97     | 22.88     | 22.84      |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 0         | 23.26     | 23.23     | 23.12      |                     |  |  |  |  |
| 10              | 16QAM      | 1       | 25        | 23.12     | 22.99     | 22.95      | 24.1                |  |  |  |  |
| 10              | 16QAM      | 1       | 49        | 23.21     | 22.94     | 22.91      |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 0         | 22.85     | 22.45     | 22.42      |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 12        | 22.86     | 22.52     | 22.42      |                     |  |  |  |  |
| 10              | 16QAM      | 25      | 25        | 22.64     | 22.41     | 22.39      | 23.6                |  |  |  |  |
| 10              | 16QAM      | 50      | 0         | 22.60     | 22.46     | 22.45      |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 0         | 22.66     | 21.98     | 22.54      |                     |  |  |  |  |
| 10              | 64QAM      | 1       | 25        | 22.69     | 22.46     | 22.44      | 23.6                |  |  |  |  |
| 10              | 64QAM      | 1       | 49        | 22.66     | 22.50     | 22.37      |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 0         | 21.64     | 21.19     | 21.47      |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 12        | 21.65     | 21.51     | 21.37      |                     |  |  |  |  |
| 10              | 64QAM      | 25      | 25        | 21.65     | 21.47     | 21.42      | 22.6                |  |  |  |  |
| 10              | 64QAM      | 50      | 0         | 21.63     | 21.47     | 21.43      |                     |  |  |  |  |
| Channel         |            |         |           | 151997    | 152322    | 152647     | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1712.5    | 1745      | 1777.5     |                     |  |  |  |  |
| 5               | QPSK       | 1       | 0         | 22.89     | 22.79     | 22.70      | 24.1                |  |  |  |  |
| 5               | QPSK       | 1       | 12        | 22.79     | 22.61     | 22.60      |                     |  |  |  |  |
| 5               | QPSK       | 1       | 24        | 22.84     | 22.70     | 22.59      |                     |  |  |  |  |
| 5               | QPSK       | 12      | 0         | 22.95     | 22.88     | 22.77      |                     |  |  |  |  |
| 5               | QPSK       | 12      | 7         | 23.07     | 22.93     | 22.82      | 24.1                |  |  |  |  |
| 5               | QPSK       | 12      | 13        | 22.94     | 22.86     | 22.75      |                     |  |  |  |  |
| 5               | QPSK       | 25      | 0         | 23.06     | 22.88     | 22.83      |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 0         | 23.26     | 23.21     | 23.11      |                     |  |  |  |  |
| 5               | 16QAM      | 1       | 12        | 23.12     | 23.01     | 22.98      | 24.1                |  |  |  |  |
| 5               | 16QAM      | 1       | 24        | 23.14     | 22.93     | 22.88      |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 0         | 22.60     | 22.41     | 22.44      |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 7         | 22.58     | 22.48     | 22.35      |                     |  |  |  |  |
| 5               | 16QAM      | 12      | 13        | 22.57     | 22.39     | 22.42      | 23.6                |  |  |  |  |
| 5               | 16QAM      | 25      | 0         | 22.62     | 22.51     | 22.42      |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 0         | 22.63     | 21.96     | 22.47      |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 12        | 22.63     | 22.44     | 22.43      |                     |  |  |  |  |
| 5               | 64QAM      | 1       | 24        | 22.67     | 22.53     | 22.37      | 23.6                |  |  |  |  |
| 5               | 64QAM      | 12      | 0         | 21.59     | 21.21     | 21.47      |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 7         | 21.67     | 21.47     | 21.42      |                     |  |  |  |  |
| 5               | 64QAM      | 12      | 13        | 21.61     | 21.39     | 21.45      |                     |  |  |  |  |
| 5               | 64QAM      | 25      | 0         | 21.61     | 21.46     | 21.44      | 22.6                |  |  |  |  |
| Channel         |            |         |           | 151997    | 152322    | 152647     | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1711.5    | 1745      | 1778.5     |                     |  |  |  |  |
| 3               | QPSK       | 1       | 0         | 22.90     | 22.84     | 22.73      | 24.1                |  |  |  |  |
| 3               | QPSK       | 1       | 6         | 22.81     | 22.59     | 22.63      |                     |  |  |  |  |
| 3               | QPSK       | 1       | 14        | 22.79     | 22.62     | 22.53      |                     |  |  |  |  |
| 3               | QPSK       | 8       | 0         | 22.97     | 22.88     | 22.74      |                     |  |  |  |  |
| 3               | QPSK       | 8       | 4         | 23.02     | 22.91     | 22.75      | 24.1                |  |  |  |  |
| 3               | QPSK       | 8       | 7         | 22.95     | 22.87     | 22.79      |                     |  |  |  |  |
| 3               | QPSK       | 15      | 0         | 23.00     | 22.85     | 22.77      |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 0         | 23.23     | 23.17     | 23.10      |                     |  |  |  |  |
| 3               | 16QAM      | 1       | 6         | 23.10     | 22.97     | 22.94      | 24.1                |  |  |  |  |
| 3               | 16QAM      | 1       | 14        | 23.11     | 22.99     | 22.91      |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 0         | 22.64     | 22.40     | 22.42      |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 4         | 22.64     | 22.48     | 22.39      |                     |  |  |  |  |
| 3               | 16QAM      | 8       | 7         | 22.58     | 22.45     | 22.42      | 23.6                |  |  |  |  |
| 3               | 16QAM      | 15      | 0         | 22.63     | 22.48     | 22.41      |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 0         | 22.70     | 22.02     | 22.46      |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 6         | 22.66     | 22.45     | 22.40      |                     |  |  |  |  |
| 3               | 64QAM      | 1       | 14        | 22.68     | 22.45     | 22.40      | 23.6                |  |  |  |  |
| 3               | 64QAM      | 8       | 0         | 21.61     | 21.15     | 21.42      |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 4         | 21.62     | 21.53     | 21.44      |                     |  |  |  |  |
| 3               | 64QAM      | 8       | 7         | 21.66     | 21.43     | 21.48      |                     |  |  |  |  |
| 3               | 64QAM      | 15      | 0         | 21.61     | 21.44     | 21.40      | 22.6                |  |  |  |  |
| Channel         |            |         |           | 151999    | 152322    | 152666     | Tune-up limit (dBm) |  |  |  |  |
| Frequency (MHz) |            |         |           | 1710.7    | 1745      | 1773.3     |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 0         | 22.91     | 22.85     | 22.75      | 24.1                |  |  |  |  |
| 1.4             | QPSK       | 1       | 3         | 22.73     | 22.63     | 22.65      |                     |  |  |  |  |
| 1.4             | QPSK       | 1       | 5         | 22.81     | 22.60     | 22.53      |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 0         | 22.99     | 22.80     | 22.84      |                     |  |  |  |  |
| 1.4             | QPSK       | 3       | 1         | 23.07     | 22.87     | 22.82      | 24.1                |  |  |  |  |
| 1.4             | QPSK       | 3       | 3         | 23.02     | 22.81     | 22.84      |                     |  |  |  |  |
| 1.4             | QPSK       | 6       | 0         | 22.98     | 22.86     | 22.82      | 24.1                |  |  |  |  |
| 1.4             | QPSK       | 6       | 3         | 23.14     | 22.97     | 22.91      |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 3         | 23.16     | 22.98     | 22.90      |                     |  |  |  |  |
| 1.4             | 16QAM      | 1       | 5         | 23.14     | 22.93     | 22.85      |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 0         | 22.59     | 22.45     | 22.39      | 23.6                |  |  |  |  |
| 1.4             | 16QAM      | 3       | 1         | 22.59     | 22.45     | 22.42      |                     |  |  |  |  |
| 1.4             | 16QAM      | 3       | 3         | 22.55     | 22.44     | 22.44      |                     |  |  |  |  |
| 1.4             | 16QAM      | 6       | 0         | 22.58     | 22.45     | 22.37      |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 0         | 22.63     | 21.97     | 22.51      | 23.6                |  |  |  |  |
| 1.4             | 64QAM      | 1       | 3         | 22.63     | 22.54     | 22.42      |                     |  |  |  |  |
| 1.4             | 64QAM      | 1       | 5         | 22.63     | 22.48     | 22.41      |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 0         | 21.77     | 21.74     | 21.71      |                     |  |  |  |  |
| 1.4             | 64QAM      | 3       | 1         | 21.73     | 21.74     | 21.75      | 23.6                |  |  |  |  |
| 1.4             | 64QAM      | 3       | 3         | 21.72     | 21.70     | 21.74      |                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 0         | 21.73     | 21.74     | 21.75      |                     |  |  |  |  |
| 1.4             | 64QAM      | 6       | 3         | 21.72     | 21.74     | 21.75      |                     |  |  |  |  |

| Band 71         |            |         |           |                     |                     |                      |                     |  |  |
|-----------------|------------|---------|-----------|---------------------|---------------------|----------------------|---------------------|--|--|
| Arct 0          |            |         |           |                     |                     |                      |                     |  |  |
| BN (MHz)        | Modulation | RB Size | RB Offset | Low Ch. /<br>153222 | Mid Ch. /<br>153222 | High Ch. /<br>153222 | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 673                 | 663                 | 668                  |                     |  |  |
| Frequency (MHz) |            |         |           |                     |                     |                      |                     |  |  |
| 20              | QPSK       | 1       | 0         | 24.77               | 24.67               | 24.68                | 25.7                |  |  |
| 20              | QPSK       | 1       | 49        | 24.65               | 24.65               | 24.65                |                     |  |  |
| 20              | QPSK       | 1       | 99        | 24.68               | 24.66               | 24.61                |                     |  |  |
| 20              | QPSK       | 50      | 24        | 23.80               | 23.74               | 23.71                |                     |  |  |
| 20              | QPSK       | 50      | 50        | 23.84               | 23.78               | 23.75                | 24.7                |  |  |
| 20              | QPSK       | 100     | 0         | 23.79               | 23.71               | 23.77                |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 24.06               | 23.96               | 24.00                |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 24.01               | 24.03               | 24.04                | 24.7                |  |  |
| 20              | 16QAM      | 1       | 99        | 24.03               | 24.01               | 23.95                |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 22.77               | 22.75               | 22.75                |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.82               | 22.77               | 22.73                |                     |  |  |
| 20              | 16QAM      | 100     | 0         | 22.79               | 22.73               | 22.76                | 23.7                |  |  |
| 20              | 64QAM      | 1       | 0         | 22.04               | 22.83               | 22.82                |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 22.83               | 22.80               | 22.29                |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 22.94               | 22.88               | 22.87                | 23.7                |  |  |
| 20              | 64QAM      | 50      | 0         | 21.00               | 21.79               | 21.49                |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 21.30               | 21.64               | 21.57                |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 21.84               | 21.60               | 21.74                |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.53               | 21.76               | 21.80                |                     |  |  |
| Channel         |            |         |           | 153157              | 153217              | 153217               |                     |  |  |
| Frequency (MHz) |            |         |           | 670.5               | 680.5               | 690.5                |                     |  |  |
| 15              | QPSK       | 1       | 0         | 24.74               | 24.65               | 24.63                | 25.7                |  |  |
| 15              | QPSK       | 1       | 37        | 24.62               | 24.66               | 24.61                |                     |  |  |
| 15              | QPSK       | 1       | 74        | 24.65               | 24.68               | 24.64                |                     |  |  |
| 15              | QPSK       | 36      | 0         | 23.73               | 23.71               | 23.69                |                     |  |  |
| 15              | QPSK       | 36      | 20        | 23.80               | 23.73               | 23.78                | 24.7                |  |  |
| 15              | QPSK       | 36      | 39        | 23.73               | 23.76               | 23.74                |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.81               | 23.74               | 23.68                |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 24.05               | 24.01               | 23.98                | 24.7                |  |  |
| 15              | 16QAM      | 1       | 37        | 23.95               | 24.02               | 24.00                |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 23.97               | 24.00               | 23.98                |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 22.76               | 22.75               | 22.71                |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.79               | 22.74               | 22.75                | 23.7                |  |  |
| 15              | 16QAM      | 36      | 39        | 22.77               | 22.79               | 22.75                |                     |  |  |
| 15              | 16QAM      | 75      | 0         | 22.83               | 22.73               | 22.70                |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 22.02               | 22.43               | 22.76                | 23.7                |  |  |
| 15              | 64QAM      | 1       | 37        | 21.86               | 22.84               | 22.86                |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 22.85               | 22.80               | 22.84                |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 20.97               | 21.77               | 21.44                |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 20.94               | 21.78               | 21.81                | 22.7                |  |  |
| 15              | 64QAM      | 36      | 39        | 21.46               | 21.86               | 21.78                |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 21.25               | 21.75               | 21.67                |                     |  |  |
| Channel         |            |         |           | 153172              | 153212              | 153212               |                     |  |  |
| Frequency (MHz) |            |         |           | 668                 | 678                 | 693                  |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.76               | 24.64               | 24.66                | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 24.61               | 24.62               | 24.63                |                     |  |  |
| 10              | QPSK       | 1       | 49        | 24.66               | 24.71               | 24.62                |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.78               | 23.71               | 23.69                |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.79               | 23.82               | 23.70                | 24.7                |  |  |
| 10              | QPSK       | 25      | 25        | 23.72               | 23.78               | 23.74                |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.80               | 23.81               | 23.71                |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 24.10               | 24.02               | 24.04                | 24.7                |  |  |
| 10              | 16QAM      | 1       | 25        | 23.98               | 24.06               | 24.00                |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 23.98               | 24.07               | 23.96                |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.76               | 22.70               | 22.68                |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.78               | 22.81               | 22.68                | 23.7                |  |  |
| 10              | 16QAM      | 25      | 25        | 22.65               | 22.77               | 22.73                |                     |  |  |
| 10              | 16QAM      | 50      | 0         | 22.79               | 22.80               | 22.69                |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.80               | 22.30               | 22.77                |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 22.01               | 22.95               | 22.95                | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 22.14               | 22.98               | 22.45                |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 20.82               | 21.71               | 21.71                |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.84               | 21.84               | 21.76                |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 20.71               | 21.81               | 21.64                | 22.7                |  |  |
| 10              | 64QAM      | 50      | 0         | 20.83               | 21.77               | 21.69                |                     |  |  |
| Channel         |            |         |           | 153147              | 153247              | 153247               |                     |  |  |
| Frequency (MHz) |            |         |           | 665.5               | 675.5               | 695.5                |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.57               | 24.69               | 24.72                | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 24.71               | 24.68               | 24.70                |                     |  |  |
| 5               | QPSK       | 1       | 24        | 24.70               | 24.68               | 24.63                |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.73               | 23.76               | 23.74                |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.84               | 23.79               | 23.76                | 24.7                |  |  |
| 5               | QPSK       | 12      | 13        | 23.78               | 23.76               | 23.70                |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.76               | 23.76               | 23.68                |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 23.75               | 24.01               | 24.02                |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.97               | 24.03               | 23.97                | 24.7                |  |  |
| 5               | 16QAM      | 1       | 24        | 23.95               | 24.02               | 23.93                |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.64               | 22.80               | 22.78                |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.86               | 22.80               | 22.78                |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.77               | 22.77               | 22.70                | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.68               | 22.81               | 22.70                |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.74               | 22.06               | 22.91                |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.79               | 22.94               | 22.70                |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.96               | 22.96               | 22.25                | 22.7                |  |  |
| 5               | 64QAM      | 12      | 0         | 20.82               | 21.49               | 21.68                |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.00               | 21.86               | 21.73                |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 20.99               | 21.81               | 21.61                |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 20.76               | 21.69               | 21.48                |                     |  |  |



| Band 2          |            |         |           |                |                   |                 |                     |  |  |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|--|--|
| Ant 0           |            |         |           |                |                   |                 |                     |  |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch./ | Power Middle Ch./ | Power High Ch./ | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 18700          | 18800             | 18900           |                     |  |  |
| Frequency (MHz) |            |         |           | 1880           | 1880              | 1900            |                     |  |  |
| 20              | QPSK       | 1       | 0         | 18.28          | 18.29             | 18.26           | 19.4                |  |  |
| 20              | QPSK       | 1       | 49        | 18.22          | 18.24             | 18.20           |                     |  |  |
| 20              | QPSK       | 1       | 99        | 18.20          | 18.23             | 18.22           |                     |  |  |
| 20              | QPSK       | 50      | 0         | 18.33          | 18.31             | 18.26           | 19.4                |  |  |
| 20              | QPSK       | 50      | 24        | 18.40          | 18.33             | 18.34           |                     |  |  |
| 20              | QPSK       | 50      | 50        | 18.35          | 18.40             | 18.35           |                     |  |  |
| 20              | QPSK       | 100     | 0         | 18.41          | 18.32             | 18.37           | 19.4                |  |  |
| 20              | 16QAM      | 1       | 0         | 18.58          | 18.62             | 18.55           |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 18.55          | 18.53             | 18.47           |                     |  |  |
| 20              | 16QAM      | 1       | 99        | 18.45          | 18.50             | 18.46           | 19.4                |  |  |
| 20              | 16QAM      | 50      | 0         | 18.32          | 18.30             | 18.28           |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 18.39          | 18.33             | 18.36           |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 18.38          | 18.37             | 18.35           | 19.4                |  |  |
| 20              | 16QAM      | 100     | 0         | 18.38          | 18.29             | 18.35           |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 18.51          | 18.48             | 18.46           |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 18.46          | 18.45             | 18.44           | 19.4                |  |  |
| 20              | 64QAM      | 1       | 99        | 18.39          | 18.46             | 18.42           |                     |  |  |
| 20              | 64QAM      | 50      | 0         | 18.35          | 18.35             | 18.30           |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 18.43          | 18.37             | 18.40           | 19.4                |  |  |
| 20              | 64QAM      | 50      | 50        | 18.39          | 18.41             | 18.38           |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 18.40          | 18.32             | 18.38           |                     |  |  |
| Channel         |            |         |           | 18675          | 18900             | 19125           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1857.5         | 1880              | 1902.5          |                     |  |  |
| 15              | QPSK       | 1       | 0         | 18.21          | 18.22             | 18.21           | 19.4                |  |  |
| 15              | QPSK       | 1       | 37        | 18.20          | 18.24             | 18.24           |                     |  |  |
| 15              | QPSK       | 1       | 74        | 18.23          | 18.22             | 18.22           |                     |  |  |
| 15              | QPSK       | 36      | 0         | 18.26          | 18.25             | 18.20           | 19.4                |  |  |
| 15              | QPSK       | 36      | 20        | 18.36          | 18.24             | 18.30           |                     |  |  |
| 15              | QPSK       | 36      | 39        | 18.33          | 18.40             | 18.34           |                     |  |  |
| 15              | QPSK       | 75      | 0         | 18.36          | 18.28             | 18.37           | 19.4                |  |  |
| 15              | 16QAM      | 1       | 0         | 18.50          | 18.60             | 18.49           |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 18.52          | 18.49             | 18.43           |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 18.39          | 18.40             | 18.42           | 19.4                |  |  |
| 15              | 16QAM      | 36      | 0         | 18.28          | 18.29             | 18.22           |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 18.29          | 18.24             | 18.27           |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 18.35          | 18.34             | 18.28           | 19.4                |  |  |
| 15              | 16QAM      | 75      | 0         | 18.31          | 18.32             | 18.34           |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 18.43          | 18.38             | 18.41           |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 18.44          | 18.38             | 18.36           | 19.4                |  |  |
| 15              | 64QAM      | 1       | 74        | 18.30          | 18.42             | 18.38           |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 18.31          | 18.32             | 18.25           |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 18.33          | 18.29             | 18.39           | 19.4                |  |  |
| 15              | 64QAM      | 36      | 39        | 18.31          | 18.36             | 18.32           |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 18.39          | 18.28             | 18.34           |                     |  |  |
| Channel         |            |         |           | 18650          | 18900             | 19150           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1855           | 1880              | 1905            |                     |  |  |
| 10              | QPSK       | 1       | 0         | 18.20          | 18.20             | 18.24           | 19.4                |  |  |
| 10              | QPSK       | 1       | 25        | 18.20          | 18.22             | 18.22           |                     |  |  |
| 10              | QPSK       | 1       | 49        | 18.21          | 18.22             | 18.24           |                     |  |  |
| 10              | QPSK       | 25      | 0         | 18.31          | 18.24             | 18.20           | 19.4                |  |  |
| 10              | QPSK       | 25      | 12        | 18.33          | 18.32             | 18.34           |                     |  |  |
| 10              | QPSK       | 25      | 25        | 18.29          | 18.36             | 18.34           |                     |  |  |
| 10              | QPSK       | 50      | 0         | 18.36          | 18.31             | 18.33           | 19.4                |  |  |
| 10              | 16QAM      | 1       | 0         | 18.55          | 18.56             | 18.49           |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 18.48          | 18.43             | 18.45           |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 18.42          | 18.47             | 18.43           | 19.4                |  |  |
| 10              | 16QAM      | 25      | 0         | 18.32          | 18.25             | 18.20           |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 18.39          | 18.23             | 18.32           |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 18.38          | 18.30             | 18.28           | 19.4                |  |  |
| 10              | 16QAM      | 50      | 0         | 18.33          | 18.25             | 18.25           |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 18.42          | 18.43             | 18.43           |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 18.40          | 18.43             | 18.38           | 19.4                |  |  |
| 10              | 64QAM      | 1       | 49        | 18.30          | 18.40             | 18.36           |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 18.32          | 18.28             | 18.21           |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 18.43          | 18.37             | 18.34           | 19.4                |  |  |
| 10              | 64QAM      | 25      | 25        | 18.38          | 18.38             | 18.36           |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 18.39          | 18.23             | 18.34           |                     |  |  |
| Channel         |            |         |           | 18625          | 18900             | 19175           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1852.5         | 1880              | 1907.5          |                     |  |  |
| 5               | QPSK       | 1       | 0         | 18.27          | 18.22             | 18.23           | 19.4                |  |  |
| 5               | QPSK       | 1       | 12        | 18.21          | 18.22             | 18.22           |                     |  |  |
| 5               | QPSK       | 1       | 24        | 18.21          | 18.23             | 18.21           |                     |  |  |
| 5               | QPSK       | 12      | 0         | 18.26          | 18.22             | 18.20           | 19.4                |  |  |
| 5               | QPSK       | 12      | 7         | 18.32          | 18.26             | 18.25           |                     |  |  |
| 5               | QPSK       | 12      | 13        | 18.26          | 18.37             | 18.30           |                     |  |  |
| 5               | QPSK       | 25      | 0         | 18.40          | 18.26             | 18.29           | 19.4                |  |  |
| 5               | 16QAM      | 1       | 0         | 18.48          | 18.61             | 18.53           |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 18.55          | 18.52             | 18.37           |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 18.44          | 18.48             | 18.46           | 19.4                |  |  |
| 5               | 16QAM      | 12      | 0         | 18.25          | 18.21             | 18.24           |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 18.33          | 18.31             | 18.32           |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 18.33          | 18.32             | 18.28           | 19.4                |  |  |
| 5               | 16QAM      | 25      | 0         | 18.30          | 18.27             | 18.33           |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 18.43          | 18.45             | 18.40           |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 18.41          | 18.45             | 18.40           | 19.4                |  |  |
| 5               | 64QAM      | 1       | 24        | 18.29          | 18.44             | 18.32           |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 18.34          | 18.27             | 18.26           |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 18.40          | 18.36             | 18.33           | 19.4                |  |  |
| 5               | 64QAM      | 12      | 13        | 18.35          | 18.34             | 18.34           |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 18.35          | 18.28             | 18.37           |                     |  |  |
| Channel         |            |         |           | 18615          | 18900             | 19185           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1851.5         | 1880              | 1908.5          |                     |  |  |
| 3               | QPSK       | 1       | 0         | 18.23          | 18.23             | 18.22           | 19.4                |  |  |
| 3               | QPSK       | 1       | 8         | 18.20          | 18.21             | 18.23           |                     |  |  |
| 3               | QPSK       | 1       | 14        | 18.21          | 18.22             | 18.22           |                     |  |  |
| 3               | QPSK       | 8       | 0         | 18.31          | 18.28             | 18.24           | 19.4                |  |  |
| 3               | QPSK       | 8       | 4         | 18.39          | 18.32             | 18.27           |                     |  |  |
| 3               | QPSK       | 8       | 7         | 18.30          | 18.37             | 18.29           |                     |  |  |
| 3               | QPSK       | 15      | 0         | 18.39          | 18.28             | 18.27           | 19.4                |  |  |
| 3               | 16QAM      | 1       | 0         | 18.55          | 18.53             | 18.50           |                     |  |  |
| 3               | 16QAM      | 1       | 8         | 18.50          | 18.48             | 18.41           |                     |  |  |
| 3               | 16QAM      | 1       | 14        | 18.40          | 18.46             | 18.38           | 19.4                |  |  |
| 3               | 16QAM      | 8       | 0         | 18.28          | 18.21             | 18.22           |                     |  |  |
| 3               | 16QAM      | 8       | 4         | 18.39          | 18.25             | 18.29           |                     |  |  |
| 3               | 16QAM      | 8       | 7         | 18.28          | 18.37             | 18.34           | 19.4                |  |  |
| 3               | 16QAM      | 15      | 0         | 18.35          | 18.20             | 18.32           |                     |  |  |
| 3               | 64QAM      | 1       | 0         | 18.50          | 18.42             | 18.44           |                     |  |  |
| 3               | 64QAM      | 1       | 8         | 18.44          | 18.38             | 18.38           | 19.4                |  |  |
| 3               | 64QAM      | 1       | 14        | 18.39          | 18.45             | 18.33           |                     |  |  |
| 3               | 64QAM      | 8       | 0         | 18.31          | 18.35             | 18.23           |                     |  |  |
| 3               | 64QAM      | 8       | 4         | 18.38          | 18.33             | 18.32           | 19.4                |  |  |
| 3               | 64QAM      | 8       | 7         | 18.35          | 18.31             | 18.31           |                     |  |  |
| 3               | 64QAM      | 15      | 0         | 18.33          | 18.26             | 18.32           |                     |  |  |
| Channel         |            |         |           | 18607          | 18900             | 19193           | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 1850.7         | 1880              | 1909.3          |                     |  |  |
| 1.4             | QPSK       | 1       | 0         | 18.21          | 18.20             | 18.21           | 19.4                |  |  |
| 1.4             | QPSK       | 1       | 3         | 18.21          | 18.22             | 18.22           |                     |  |  |
| 1.4             | QPSK       | 1       | 5         | 18.23          | 18.20             | 18.22           |                     |  |  |
| 1.4             | QPSK       | 3       | 0         | 18.24          | 18.25             | 18.24           | 19.4                |  |  |
| 1.4             | QPSK       | 3       | 1         | 18.33          | 18.29             | 18.31           |                     |  |  |
| 1.4             | QPSK       | 3       | 3         | 18.31          | 18.35             | 18.30           |                     |  |  |
| 1.4             | 16QAM      | 1       | 0         | 18.45          | 18.44             | 18.45           | 19.4                |  |  |
| 1.4             | 16QAM      | 1       | 3         | 18.46          | 18.43             | 18.44           |                     |  |  |
| 1.4             | 16QAM      | 1       | 5         | 18.42          | 18.49             | 18.45           |                     |  |  |
| 1.4             | 16QAM      | 3       | 0         | 18.31          | 18.23             | 18.23           | 19.4                |  |  |
| 1.4             | 16QAM      | 3       | 1         | 18.34          | 18.26             | 18.26           |                     |  |  |
| 1.4             | 16QAM      | 3       | 3         | 18.31          | 18.34             | 18.26           |                     |  |  |
| 1.4             | 16QAM      | 3       | 5         | 18.31          | 18.30             | 18.31           | 19.4                |  |  |
| 1.4             | 16QAM      | 3       | 7         | 18.32          | 18.30             | 18.32           |                     |  |  |
| 1.4             | 16QAM      | 3       | 9         | 18.33          | 18.30             | 18.33           |                     |  |  |
| 1.4             | 16QAM      | 3       | 1         | 18.37          | 18.40             | 18.36           | 19.4                |  |  |
| 1.4             | 16QAM      | 3       | 3         | 18.32          | 18.32             | 18.36           |                     |  |  |
| 1.4             | 16QAM      | 3       | 5         | 18.32          | 18.32             | 18.36           |                     |  |  |



| Band 4          |            |         |           |                            |                            |                            |                       |                           |  |
|-----------------|------------|---------|-----------|----------------------------|----------------------------|----------------------------|-----------------------|---------------------------|--|
| Art 0           |            |         |           |                            |                            |                            |                       |                           |  |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Mod Ch /<br>20050 | Power<br>Mod Ch /<br>20175 | Power<br>Mod Ch /<br>20300 | High<br>Ch /<br>20300 | Tune-up<br>unit<br>(dbm)  |  |
| Channel         |            |         |           | 20050                      | 20175                      | 20300                      |                       |                           |  |
| Frequency (MHz) |            |         |           | 1720                       | 1732.5                     | 1745                       |                       |                           |  |
| 20              | QPSK       | 1       | 0         | 18.94                      | 18.90                      | 18.88                      |                       | 20                        |  |
| 20              | QPSK       | 1       | 49        | 18.89                      | 18.84                      | 18.86                      |                       |                           |  |
| 20              | QPSK       | 1       | 99        | 18.89                      | 18.89                      | 18.90                      |                       |                           |  |
| 20              | QPSK       | 50      | 0         | 19.01                      | 18.96                      | 18.98                      |                       |                           |  |
| 20              | QPSK       | 50      | 24        | 19.02                      | 19.03                      | 19.02                      |                       | 20                        |  |
| 20              | QPSK       | 50      | 50        | 18.95                      | 18.89                      | 18.92                      |                       |                           |  |
| 20              | QPSK       | 100     | 0         | 18.99                      | 18.99                      | 18.88                      |                       |                           |  |
| 20              | 16QAM      | 1       | 0         | 19.31                      | 19.23                      | 19.21                      |                       | 20                        |  |
| 20              | 16QAM      | 1       | 49        | 19.13                      | 19.10                      | 19.13                      |                       |                           |  |
| 20              | 16QAM      | 1       | 99        | 19.19                      | 19.12                      | 19.07                      |                       |                           |  |
| 20              | 16QAM      | 50      | 0         | 18.99                      | 18.97                      | 19.00                      |                       |                           |  |
| 20              | 16QAM      | 50      | 24        | 19.02                      | 19.00                      | 19.02                      |                       | 20                        |  |
| 20              | 16QAM      | 50      | 50        | 18.95                      | 18.91                      | 18.95                      |                       |                           |  |
| 20              | 16QAM      | 100     | 0         | 18.97                      | 18.99                      | 18.90                      |                       |                           |  |
| 20              | 64QAM      | 1       | 0         | 19.11                      | 19.09                      | 19.10                      |                       |                           |  |
| 20              | 64QAM      | 1       | 49        | 19.00                      | 18.93                      | 18.95                      |                       | 20                        |  |
| 20              | 64QAM      | 1       | 99        | 19.02                      | 19.04                      | 19.03                      |                       |                           |  |
| 20              | 64QAM      | 50      | 0         | 19.00                      | 18.96                      | 18.97                      |                       |                           |  |
| 20              | 64QAM      | 50      | 24        | 19.02                      | 18.99                      | 19.00                      |                       | 20                        |  |
| 20              | 64QAM      | 50      | 50        | 18.96                      | 18.92                      | 18.93                      |                       |                           |  |
| 20              | 64QAM      | 100     | 0         | 19.01                      | 18.96                      | 18.93                      |                       |                           |  |
| Channel         |            |         |           | 20025                      | 20175                      | 20325                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1717.5                     | 1732.5                     | 1747.5                     |                       |                           |  |
| 15              | QPSK       | 1       | 0         | 18.84                      | 18.92                      | 18.94                      |                       | 20                        |  |
| 15              | QPSK       | 1       | 37        | 18.80                      | 18.80                      | 18.80                      |                       |                           |  |
| 15              | QPSK       | 1       | 74        | 18.81                      | 18.80                      | 18.80                      |                       |                           |  |
| 15              | QPSK       | 36      | 0         | 19.01                      | 18.95                      | 18.97                      |                       |                           |  |
| 15              | QPSK       | 36      | 20        | 18.93                      | 18.93                      | 18.95                      |                       | 20                        |  |
| 15              | QPSK       | 36      | 39        | 18.91                      | 18.90                      | 18.93                      |                       |                           |  |
| 15              | QPSK       | 75      | 0         | 18.97                      | 18.97                      | 18.88                      |                       |                           |  |
| 15              | 16QAM      | 1       | 0         | 19.26                      | 19.24                      | 19.27                      |                       |                           |  |
| 15              | 16QAM      | 1       | 37        | 19.10                      | 19.07                      | 19.12                      |                       | 20                        |  |
| 15              | 16QAM      | 1       | 74        | 19.13                      | 19.05                      | 19.10                      |                       |                           |  |
| 15              | 16QAM      | 36      | 0         | 19.05                      | 18.94                      | 18.97                      |                       |                           |  |
| 15              | 16QAM      | 36      | 20        | 18.98                      | 18.93                      | 18.99                      |                       | 20                        |  |
| 15              | 16QAM      | 36      | 39        | 18.96                      | 18.88                      | 18.96                      |                       |                           |  |
| 15              | 16QAM      | 75      | 0         | 18.99                      | 18.95                      | 18.91                      |                       |                           |  |
| 15              | 64QAM      | 1       | 0         | 19.04                      | 19.00                      | 19.05                      |                       | 20                        |  |
| 15              | 64QAM      | 1       | 37        | 19.04                      | 19.00                      | 19.06                      |                       |                           |  |
| 15              | 64QAM      | 36      | 0         | 19.06                      | 18.99                      | 18.97                      |                       |                           |  |
| 15              | 64QAM      | 36      | 20        | 18.99                      | 18.96                      | 18.97                      |                       | 20                        |  |
| 15              | 64QAM      | 36      | 39        | 18.96                      | 18.92                      | 18.97                      |                       |                           |  |
| 15              | 64QAM      | 75      | 0         | 18.98                      | 18.97                      | 18.91                      |                       |                           |  |
| Channel         |            |         |           | 20000                      | 20175                      | 20350                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1715                       | 1732.5                     | 1750                       |                       |                           |  |
| 10              | QPSK       | 1       | 0         | 18.85                      | 18.82                      | 18.85                      |                       | 20                        |  |
| 10              | QPSK       | 1       | 25        | 18.80                      | 18.80                      | 18.85                      |                       |                           |  |
| 10              | QPSK       | 1       | 49        | 18.80                      | 18.81                      | 18.86                      |                       |                           |  |
| 10              | QPSK       | 25      | 0         | 18.95                      | 18.88                      | 18.88                      |                       | 20                        |  |
| 10              | QPSK       | 25      | 12        | 18.99                      | 18.96                      | 18.92                      |                       |                           |  |
| 10              | QPSK       | 25      | 25        | 18.98                      | 18.97                      | 19.00                      |                       | 20                        |  |
| 10              | QPSK       | 50      | 0         | 18.99                      | 18.97                      | 18.95                      |                       |                           |  |
| 10              | 16QAM      | 1       | 0         | 19.24                      | 19.20                      | 19.23                      |                       |                           |  |
| 10              | 16QAM      | 1       | 25        | 19.19                      | 19.17                      | 19.24                      |                       | 20                        |  |
| 10              | 16QAM      | 1       | 49        | 19.20                      | 19.16                      | 19.23                      |                       |                           |  |
| 10              | 16QAM      | 25      | 0         | 18.96                      | 18.93                      | 18.92                      |                       |                           |  |
| 10              | 16QAM      | 25      | 12        | 18.99                      | 18.97                      | 18.94                      |                       | 20                        |  |
| 10              | 16QAM      | 25      | 25        | 18.98                      | 18.93                      | 18.99                      |                       |                           |  |
| 10              | 16QAM      | 50      | 0         | 18.99                      | 18.95                      | 18.93                      |                       |                           |  |
| 10              | 64QAM      | 1       | 0         | 19.17                      | 19.03                      | 19.09                      |                       | 20                        |  |
| 10              | 64QAM      | 1       | 25        | 19.15                      | 19.13                      | 19.15                      |                       |                           |  |
| 10              | 64QAM      | 1       | 49        | 19.12                      | 19.11                      | 19.11                      |                       |                           |  |
| 10              | 64QAM      | 25      | 0         | 18.99                      | 18.92                      | 18.93                      |                       |                           |  |
| 10              | 64QAM      | 25      | 12        | 19.03                      | 19.00                      | 18.98                      |                       | 20                        |  |
| 10              | 64QAM      | 25      | 25        | 19.02                      | 19.00                      | 19.06                      |                       |                           |  |
| 10              | 64QAM      | 50      | 0         | 19.02                      | 18.99                      | 18.97                      |                       |                           |  |
| Channel         |            |         |           | 19975                      | 20175                      | 20375                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1712.5                     | 1732.5                     | 1752.5                     |                       |                           |  |
| 5               | QPSK       | 1       | 0         | 18.88                      | 18.80                      | 18.89                      |                       | 20                        |  |
| 5               | QPSK       | 1       | 12        | 18.91                      | 18.84                      | 18.92                      |                       |                           |  |
| 5               | QPSK       | 1       | 24        | 18.90                      | 18.85                      | 18.91                      |                       |                           |  |
| 5               | QPSK       | 12      | 0         | 18.99                      | 18.88                      | 18.94                      |                       | 20                        |  |
| 5               | QPSK       | 12      | 7         | 19.02                      | 18.96                      | 19.02                      |                       |                           |  |
| 5               | QPSK       | 12      | 13        | 19.01                      | 18.95                      | 18.99                      |                       |                           |  |
| 5               | QPSK       | 25      | 0         | 18.98                      | 18.94                      | 18.94                      |                       | 20                        |  |
| 5               | 16QAM      | 1       | 0         | 19.22                      | 19.10                      | 19.18                      |                       |                           |  |
| 5               | 16QAM      | 1       | 12        | 19.26                      | 19.15                      | 19.08                      |                       | 20                        |  |
| 5               | 16QAM      | 1       | 24        | 19.26                      | 19.21                      | 19.20                      |                       |                           |  |
| 5               | 16QAM      | 12      | 0         | 19.00                      | 18.87                      | 18.98                      |                       |                           |  |
| 5               | 16QAM      | 12      | 7         | 19.02                      | 18.97                      | 19.02                      |                       | 20                        |  |
| 5               | 16QAM      | 12      | 13        | 19.02                      | 18.93                      | 18.99                      |                       |                           |  |
| 5               | 16QAM      | 25      | 0         | 18.98                      | 18.97                      | 18.98                      |                       |                           |  |
| 5               | 64QAM      | 1       | 0         | 19.19                      | 19.08                      | 19.14                      |                       |                           |  |
| 5               | 64QAM      | 1       | 12        | 19.18                      | 19.10                      | 19.04                      |                       | 20                        |  |
| 5               | 64QAM      | 1       | 24        | 19.22                      | 19.14                      | 19.07                      |                       |                           |  |
| 5               | 64QAM      | 12      | 0         | 19.06                      | 18.91                      | 19.06                      |                       |                           |  |
| 5               | 64QAM      | 12      | 7         | 19.09                      | 19.00                      | 19.09                      |                       | 20                        |  |
| 5               | 64QAM      | 12      | 13        | 19.07                      | 19.01                      | 19.05                      |                       |                           |  |
| 5               | 64QAM      | 25      | 0         | 19.06                      | 18.98                      | 18.99                      |                       |                           |  |
| Channel         |            |         |           | 19965                      | 20175                      | 20385                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1711.5                     | 1732.5                     | 1753.5                     |                       |                           |  |
| 3               | QPSK       | 1       | 0         | 18.92                      | 18.80                      | 18.92                      |                       | 20                        |  |
| 3               | QPSK       | 1       | 8         | 18.95                      | 18.91                      | 18.94                      |                       |                           |  |
| 3               | QPSK       | 1       | 14        | 18.90                      | 18.87                      | 18.93                      |                       |                           |  |
| 3               | QPSK       | 8       | 0         | 18.96                      | 18.89                      | 18.96                      |                       | 20                        |  |
| 3               | QPSK       | 8       | 4         | 19.03                      | 18.96                      | 19.03                      |                       |                           |  |
| 3               | QPSK       | 8       | 7         | 19.01                      | 18.93                      | 18.99                      |                       |                           |  |
| 3               | QPSK       | 15      | 0         | 18.98                      | 18.95                      | 19.00                      |                       | 20                        |  |
| 3               | 16QAM      | 1       | 0         | 19.19                      | 19.09                      | 19.20                      |                       |                           |  |
| 3               | 16QAM      | 1       | 8         | 19.30                      | 19.23                      | 19.22                      |                       |                           |  |
| 3               | 16QAM      | 1       | 14        | 19.24                      | 19.17                      | 19.23                      |                       |                           |  |
| 3               | 16QAM      | 8       | 0         | 19.03                      | 18.94                      | 18.99                      |                       | 20                        |  |
| 3               | 16QAM      | 8       | 4         | 19.08                      | 19.02                      | 19.04                      |                       |                           |  |
| 3               | 16QAM      | 8       | 7         | 19.05                      | 19.01                      | 18.99                      |                       |                           |  |
| 3               | 16QAM      | 15      | 0         | 18.99                      | 18.96                      | 19.00                      |                       | 20                        |  |
| 3               | 64QAM      | 1       | 0         | 19.18                      | 19.07                      | 19.10                      |                       |                           |  |
| 3               | 64QAM      | 1       | 8         | 19.26                      | 19.19                      | 19.15                      |                       | 20                        |  |
| 3               | 64QAM      | 1       | 14        | 19.21                      | 19.13                      | 19.06                      |                       |                           |  |
| 3               | 64QAM      | 8       | 0         | 19.05                      | 18.91                      | 19.05                      |                       |                           |  |
| 3               | 64QAM      | 8       | 4         | 19.12                      | 19.01                      | 19.08                      |                       | 20                        |  |
| 3               | 64QAM      | 8       | 7         | 19.07                      | 18.99                      | 19.07                      |                       |                           |  |
| 3               | 64QAM      | 15      | 0         | 19.03                      | 19.00                      | 19.03                      |                       |                           |  |
| Channel         |            |         |           | 19957                      | 20175                      | 20393                      |                       | Tune-up<br>limit<br>(dbm) |  |
| Frequency (MHz) |            |         |           | 1710.7                     | 1732.5                     | 1754.3                     |                       |                           |  |
| 1.4             | QPSK       | 1       | 0         | 18.80                      | 18.80                      | 18.80                      |                       | 20                        |  |
| 1.4             | QPSK       | 1       | 3         | 18.87                      | 18.84                      | 18.87                      |                       |                           |  |
| 1.4             | QPSK       | 1       | 5         | 18.82                      | 18.80                      | 18.80                      |                       |                           |  |
| 1.4             | QPSK       | 3       | 0         | 18.86                      | 18.80                      | 18.81                      |                       | 20                        |  |
| 1.4             | QPSK       | 3       | 1         | 18.89                      | 18.83                      | 18.85                      |                       |                           |  |
| 1.4             | QPSK       | 3       | 3         | 18.82                      | 18.80                      | 18.84                      |                       |                           |  |
| 1.4             | QPSK       | 6       | 0         | 18.91                      | 18.86                      | 18.88                      |                       | 20                        |  |
| 1.4             | 16QAM      | 1       | 0         | 19.15                      | 19.10                      | 19.13                      |                       |                           |  |
| 1.4             | 16QAM      | 1       | 3         | 19.22                      | 19.15                      | 19.18                      |                       |                           |  |
| 1.4             | 16QAM      | 1       | 5         | 19.15                      | 19.11                      | 19.12                      |                       | 20                        |  |
| 1.4             | 16QAM      | 3       | 0         | 19.04                      | 18.88                      | 18.88                      |                       |                           |  |
| 1.4             | 16QAM      | 3       | 1         | 19.00                      | 18.91                      | 18.90                      |                       |                           |  |
| 1.4             | 16QAM      | 3       | 3         | 19.03                      | 18.87                      | 18.85                      |                       | 20                        |  |
| 1.4             | 16QAM      | 6       | 0         | 18.97                      | 18.91                      | 18.99                      |                       |                           |  |
| 1.4             | 16QAM      | 6       | 1         | 19.04                      | 19.00                      | 19.06                      |                       | 20                        |  |
| 1.4             | 64QAM      | 3       | 0         | 19.05                      | 19.01                      | 19.04                      |                       |                           |  |
| 1.4             | 64QAM      | 3       | 1         | 19.13                      | 19.03                      | 19.07                      |                       |                           |  |
| 1.4             | 64QAM      | 3       | 3         | 19.07                      | 19.00                      | 19.03                      |                       | 20                        |  |



| Band 5          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20450           | 20525              | 20600            |                     |
| Frequency (MHz) |            |         |           | 825             | 835.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.43           | 24.46              | 24.43            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.39           | 24.46              | 24.45            |                     |
| 10              | QPSK       | 1       | 49        | 24.42           | 24.47              | 24.40            |                     |
| 10              | QPSK       | 25      | 0         | 23.49           | 23.55              | 23.56            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.56           | 23.57              | 23.57            |                     |
| 10              | QPSK       | 25      | 25        | 23.54           | 23.57              | 23.47            |                     |
| 10              | QPSK       | 50      | 0         | 23.57           | 23.55              | 23.56            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.84           | 23.81              | 23.88            |                     |
| 10              | 16QAM      | 1       | 25        | 23.77           | 23.82              | 23.84            |                     |
| 10              | 16QAM      | 1       | 49        | 23.63           | 23.86              | 23.78            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.49           | 22.55              | 22.53            |                     |
| 10              | 16QAM      | 25      | 12        | 22.59           | 22.57              | 22.65            |                     |
| 10              | 16QAM      | 25      | 25        | 22.54           | 22.60              | 22.57            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.56           | 22.55              | 22.55            |                     |
| 10              | 64QAM      | 1       | 0         | 22.71           | 22.68              | 22.74            |                     |
| 10              | 64QAM      | 1       | 25        | 22.73           | 22.49              | 22.51            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.73           | 22.35              | 21.70            |                     |
| 10              | 64QAM      | 25      | 0         | 21.54           | 21.60              | 21.58            |                     |
| 10              | 64QAM      | 25      | 12        | 21.63           | 21.53              | 21.47            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.58           | 21.61              | 20.76            |                     |
| 10              | 64QAM      | 50      | 0         | 21.59           | 21.57              | 21.25            |                     |
| Channel         |            |         |           | 20425           | 20525              | 20625            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.5           | 836.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.46           | 24.46              | 24.45            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.44           | 24.46              | 24.19            |                     |
| 5               | QPSK       | 1       | 24        | 24.46           | 24.45              | 24.23            |                     |
| 5               | QPSK       | 12      | 0         | 23.59           | 23.59              | 23.58            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.54           | 23.61              | 23.25            |                     |
| 5               | QPSK       | 12      | 13        | 23.52           | 23.56              | 23.24            |                     |
| 5               | QPSK       | 25      | 0         | 23.54           | 23.52              | 23.37            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.91           | 23.90              | 23.87            |                     |
| 5               | 16QAM      | 1       | 12        | 23.78           | 23.86              | 23.43            |                     |
| 5               | 16QAM      | 1       | 24        | 23.79           | 23.83              | 23.43            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.65           | 22.62              | 22.60            |                     |
| 5               | 16QAM      | 12      | 7         | 22.57           | 22.64              | 22.38            |                     |
| 5               | 16QAM      | 12      | 13        | 22.52           | 22.59              | 22.35            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.57           | 22.59              | 22.51            |                     |
| 5               | 64QAM      | 1       | 0         | 22.87           | 22.79              | 22.18            |                     |
| 5               | 64QAM      | 1       | 12        | 22.72           | 22.71              | 21.72            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.72           | 22.73              | 21.73            |                     |
| 5               | 64QAM      | 12      | 0         | 21.69           | 21.69              | 20.87            |                     |
| 5               | 64QAM      | 12      | 7         | 21.63           | 21.56              | 21.85            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.60           | 21.61              | 20.71            |                     |
| 5               | 64QAM      | 25      | 0         | 21.57           | 21.61              | 20.73            |                     |
| Channel         |            |         |           | 20415           | 20525              | 20635            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 825.5           | 836.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.43           | 24.43              | 24.20            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.43           | 24.45              | 24.13            |                     |
| 3               | QPSK       | 1       | 14        | 24.39           | 24.42              | 24.17            |                     |
| 3               | QPSK       | 8       | 0         | 23.60           | 23.60              | 23.07            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.55           | 23.62              | 23.16            |                     |
| 3               | QPSK       | 8       | 7         | 23.52           | 23.58              | 23.25            |                     |
| 3               | QPSK       | 15      | 0         | 23.57           | 23.58              | 23.17            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.87           | 23.84              | 23.44            |                     |
| 3               | 16QAM      | 1       | 8         | 23.89           | 23.89              | 23.38            |                     |
| 3               | 16QAM      | 1       | 14        | 23.74           | 23.82              | 23.44            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.66           | 22.61              | 22.26            |                     |
| 3               | 16QAM      | 8       | 4         | 22.66           | 22.71              | 22.30            |                     |
| 3               | 16QAM      | 8       | 7         | 22.60           | 22.65              | 22.40            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.60           | 22.54              | 22.27            |                     |
| 3               | 64QAM      | 1       | 0         | 22.81           | 22.74              | 21.74            |                     |
| 3               | 64QAM      | 1       | 8         | 22.63           | 22.74              | 21.72            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.70           | 22.64              | 21.71            |                     |
| 3               | 64QAM      | 8       | 0         | 21.69           | 21.58              | 20.75            |                     |
| 3               | 64QAM      | 8       | 4         | 21.66           | 21.56              | 20.73            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.62           | 21.61              | 20.80            |                     |
| 3               | 64QAM      | 15      | 0         | 21.63           | 21.60              | 20.71            |                     |
| Channel         |            |         |           | 20407           | 20525              | 20643            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 824.7           | 836.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.42           | 24.41              | 24.09            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.46           | 24.45              | 24.26            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.38           | 24.39              | 24.21            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.41           | 24.41              | 24.22            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.46           | 24.46              | 24.30            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.41           | 24.45              | 24.42            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.50           | 23.51              | 23.36            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.75           | 23.73              | 23.46            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.79           | 23.84              | 23.67            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.68           | 23.74              | 23.60            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.56           | 23.51              | 23.29            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.60           | 23.58              | 23.35            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.51           | 23.53              | 23.45            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.58           | 22.61              | 22.49            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.69           | 22.61              | 21.73            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.75           | 22.64              | 21.71            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.64           | 22.61              | 21.72            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.66           | 22.60              | 21.73            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.69           | 22.63              | 21.74            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.63           | 22.60              | 21.75            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.54           | 21.47              | 20.72            |                     |



| Band 7          |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Art 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 20860           | 21100              | 21350            |                     |
| Frequency (MHz) |            |         |           | 2510            | 2535               | 2560             |                     |
| 20              | QPSK       | 1       | 0         | 20.81           | 20.82              | 20.83            | 22                  |
| 20              | QPSK       | 1       | 49        | 20.80           | 20.86              | 20.81            |                     |
| 20              | QPSK       | 1       | 99        | 20.83           | 20.92              | 20.89            |                     |
| 20              | QPSK       | 50      | 0         | 20.82           | 20.91              | 20.93            | 22                  |
| 20              | QPSK       | 50      | 24        | 20.84           | 20.92              | 20.96            |                     |
| 20              | QPSK       | 50      | 50        | 20.95           | 21.03              | 21.02            |                     |
| 20              | QPSK       | 100     | 0         | 20.92           | 20.94              | 20.93            | 22                  |
| 20              | 16QAM      | 1       | 0         | 21.06           | 21.11              | 21.16            |                     |
| 20              | 16QAM      | 1       | 49        | 21.13           | 21.18              | 21.17            |                     |
| 20              | 16QAM      | 1       | 99        | 21.14           | 21.27              | 21.23            | 22                  |
| 20              | 16QAM      | 50      | 0         | 20.81           | 20.99              | 20.94            |                     |
| 20              | 16QAM      | 50      | 24        | 20.93           | 20.97              | 20.96            |                     |
| 20              | 16QAM      | 50      | 50        | 20.95           | 21.05              | 21.03            | 22                  |
| 20              | 16QAM      | 100     | 0         | 20.92           | 20.90              | 20.93            |                     |
| 20              | 64QAM      | 1       | 0         | 20.87           | 20.98              | 20.99            |                     |
| 20              | 64QAM      | 1       | 49        | 20.96           | 21.06              | 20.98            | 22                  |
| 20              | 64QAM      | 1       | 99        | 21.02           | 21.14              | 21.12            |                     |
| 20              | 64QAM      | 50      | 0         | 20.83           | 20.91              | 20.93            |                     |
| 20              | 64QAM      | 50      | 24        | 20.94           | 20.96              | 20.96            | 22                  |
| 20              | 64QAM      | 50      | 50        | 20.95           | 21.03              | 21.05            |                     |
| 20              | 64QAM      | 100     | 0         | 20.92           | 20.94              | 20.94            |                     |
| Channel         |            |         |           | 20825           | 21100              | 21375            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2507.5          | 2535               | 2562.5           |                     |
| 15              | QPSK       | 1       | 0         | 20.81           | 20.82              | 20.81            | 22                  |
| 15              | QPSK       | 1       | 37        | 20.81           | 20.83              | 20.81            |                     |
| 15              | QPSK       | 1       | 74        | 20.80           | 20.83              | 20.85            |                     |
| 15              | QPSK       | 36      | 0         | 20.82           | 20.86              | 20.91            | 22                  |
| 15              | QPSK       | 36      | 20        | 20.92           | 20.82              | 20.89            |                     |
| 15              | QPSK       | 36      | 39        | 20.95           | 20.95              | 21.00            |                     |
| 15              | QPSK       | 75      | 0         | 20.85           | 20.90              | 20.91            | 22                  |
| 15              | 16QAM      | 1       | 0         | 20.99           | 21.11              | 21.14            |                     |
| 15              | 16QAM      | 1       | 37        | 21.07           | 21.14              | 21.11            |                     |
| 15              | 16QAM      | 1       | 74        | 21.05           | 21.21              | 21.18            | 22                  |
| 15              | 16QAM      | 36      | 0         | 20.81           | 20.86              | 20.92            |                     |
| 15              | 16QAM      | 36      | 20        | 20.86           | 20.91              | 20.94            |                     |
| 15              | 16QAM      | 36      | 39        | 20.95           | 21.04              | 20.93            | 22                  |
| 15              | 16QAM      | 75      | 0         | 20.83           | 20.87              | 20.93            |                     |
| 15              | 64QAM      | 1       | 0         | 20.80           | 20.95              | 20.89            |                     |
| 15              | 64QAM      | 1       | 37        | 20.91           | 20.98              | 20.95            | 22                  |
| 15              | 64QAM      | 1       | 74        | 21.00           | 21.07              | 21.12            |                     |
| 15              | 64QAM      | 36      | 0         | 20.80           | 20.89              | 20.85            |                     |
| 15              | 64QAM      | 36      | 20        | 20.93           | 20.96              | 20.95            | 22                  |
| 15              | 64QAM      | 36      | 39        | 20.88           | 21.02              | 20.96            |                     |
| 15              | 64QAM      | 75      | 0         | 20.85           | 20.94              | 20.86            |                     |
| Channel         |            |         |           | 20900           | 21100              | 21400            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2505            | 2535               | 2565             |                     |
| 10              | QPSK       | 1       | 0         | 20.80           | 20.82              | 20.80            | 22                  |
| 10              | QPSK       | 1       | 25        | 20.83           | 20.83              | 20.81            |                     |
| 10              | QPSK       | 1       | 49        | 20.81           | 20.83              | 20.84            |                     |
| 10              | QPSK       | 25      | 0         | 20.82           | 20.85              | 20.93            | 22                  |
| 10              | QPSK       | 25      | 12        | 20.84           | 20.83              | 20.85            |                     |
| 10              | QPSK       | 25      | 25        | 20.85           | 21.00              | 20.98            |                     |
| 10              | QPSK       | 50      | 0         | 20.83           | 20.94              | 20.87            | 22                  |
| 10              | 16QAM      | 1       | 0         | 21.04           | 21.10              | 21.13            |                     |
| 10              | 16QAM      | 1       | 25        | 21.13           | 21.11              | 21.12            |                     |
| 10              | 16QAM      | 1       | 49        | 21.06           | 21.26              | 21.16            | 22                  |
| 10              | 16QAM      | 25      | 0         | 20.81           | 20.82              | 20.91            |                     |
| 10              | 16QAM      | 25      | 12        | 20.93           | 20.93              | 20.86            |                     |
| 10              | 16QAM      | 25      | 25        | 20.95           | 21.02              | 20.98            | 22                  |
| 10              | 16QAM      | 50      | 0         | 20.90           | 20.85              | 20.91            |                     |
| 10              | 64QAM      | 1       | 0         | 20.83           | 20.92              | 20.98            |                     |
| 10              | 64QAM      | 1       | 25        | 20.96           | 20.96              | 20.88            | 22                  |
| 10              | 64QAM      | 1       | 49        | 20.96           | 21.06              | 21.03            |                     |
| 10              | 64QAM      | 25      | 0         | 20.88           | 20.89              | 20.93            |                     |
| 10              | 64QAM      | 25      | 12        | 20.87           | 20.95              | 20.96            | 22                  |
| 10              | 64QAM      | 25      | 25        | 20.95           | 20.94              | 20.95            |                     |
| 10              | 64QAM      | 50      | 0         | 20.87           | 20.89              | 20.92            |                     |
| Channel         |            |         |           | 20775           | 21100              | 21425            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2502.5          | 2535               | 2567.5           |                     |
| 5               | QPSK       | 1       | 0         | 20.83           | 20.80              | 20.82            | 22                  |
| 5               | QPSK       | 1       | 12        | 20.82           | 20.84              | 20.85            |                     |
| 5               | QPSK       | 1       | 24        | 20.83           | 20.83              | 20.86            |                     |
| 5               | QPSK       | 12      | 0         | 20.85           | 20.86              | 20.91            | 22                  |
| 5               | QPSK       | 12      | 7         | 20.88           | 20.87              | 20.89            |                     |
| 5               | QPSK       | 12      | 13        | 20.88           | 20.94              | 20.95            |                     |
| 5               | QPSK       | 25      | 0         | 20.87           | 20.87              | 20.93            | 22                  |
| 5               | 16QAM      | 1       | 0         | 20.96           | 21.06              | 21.12            |                     |
| 5               | 16QAM      | 1       | 12        | 21.07           | 21.18              | 21.14            |                     |
| 5               | 16QAM      | 1       | 24        | 21.14           | 21.25              | 21.23            | 22                  |
| 5               | 16QAM      | 12      | 0         | 20.83           | 20.87              | 20.92            |                     |
| 5               | 16QAM      | 12      | 7         | 20.93           | 20.88              | 20.91            |                     |
| 5               | 16QAM      | 12      | 13        | 20.90           | 20.96              | 20.95            | 22                  |
| 5               | 16QAM      | 25      | 0         | 20.82           | 20.82              | 20.89            |                     |
| 5               | 64QAM      | 1       | 0         | 20.81           | 20.96              | 20.93            |                     |
| 5               | 64QAM      | 1       | 12        | 20.90           | 20.98              | 20.97            | 22                  |
| 5               | 64QAM      | 1       | 24        | 20.97           | 21.08              | 21.10            |                     |
| 5               | 64QAM      | 12      | 0         | 20.87           | 20.89              | 20.90            |                     |
| 5               | 64QAM      | 12      | 7         | 20.93           | 20.89              | 20.87            | 22                  |
| 5               | 64QAM      | 12      | 13        | 20.91           | 20.96              | 21.05            |                     |
| 5               | 64QAM      | 25      | 0         | 20.86           | 20.87              | 20.90            |                     |



| Band 12         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23060           | 23095              | 23150            |                     |
| Frequency (MHz) |            |         |           | 704             | 707.5              | 711              |                     |
| 10              | QPSK       | 1       | 0         | 24.57           | 24.53              | 24.51            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.58           | 24.57              | 24.54            |                     |
| 10              | QPSK       | 1       | 49        | 24.63           | 24.62              | 24.58            |                     |
| 10              | QPSK       | 25      | 0         | 23.64           | 23.68              | 23.68            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.74           | 23.70              | 23.69            |                     |
| 10              | QPSK       | 25      | 25        | 23.72           | 23.75              | 23.74            |                     |
| 10              | QPSK       | 50      | 0         | 23.73           | 23.67              | 23.68            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.94           | 23.91              | 23.89            |                     |
| 10              | 16QAM      | 1       | 25        | 23.94           | 23.99              | 23.95            |                     |
| 10              | 16QAM      | 1       | 49        | 24.00           | 24.00              | 23.96            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.96           | 22.71              | 22.88            |                     |
| 10              | 16QAM      | 25      | 12        | 22.75           | 22.69              | 22.68            |                     |
| 10              | 16QAM      | 25      | 25        | 22.70           | 22.75              | 22.71            | 22.7                |
| 10              | 16QAM      | 50      | 0         | 22.72           | 22.69              | 22.64            |                     |
| 10              | 64QAM      | 1       | 0         | 22.60           | 22.76              | 22.82            |                     |
| 10              | 64QAM      | 1       | 25        | 22.56           | 22.89              | 22.57            | 22.7                |
| 10              | 64QAM      | 1       | 49        | 22.58           | 22.88              | 22.83            |                     |
| 10              | 64QAM      | 25      | 0         | 21.48           | 21.60              | 21.64            |                     |
| 10              | 64QAM      | 25      | 12        | 21.63           | 21.71              | 21.72            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.72           | 21.77              | 21.76            |                     |
| 10              | 64QAM      | 50      | 0         | 21.55           | 21.68              | 21.70            |                     |
| Channel         |            |         |           | 23035           | 23095              | 23155            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 701.5           | 707.5              | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.62           | 24.59              | 24.56            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.60           | 24.62              | 24.60            |                     |
| 5               | QPSK       | 1       | 24        | 24.62           | 24.61              | 24.61            |                     |
| 5               | QPSK       | 12      | 0         | 23.73           | 23.71              | 23.68            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.69           | 23.69              | 23.74            |                     |
| 5               | QPSK       | 12      | 13        | 23.71           | 23.71              | 23.67            |                     |
| 5               | QPSK       | 25      | 0         | 23.70           | 23.67              | 23.66            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.96           | 23.92              | 23.87            |                     |
| 5               | 16QAM      | 1       | 12        | 23.98           | 23.95              | 23.93            |                     |
| 5               | 16QAM      | 1       | 24        | 23.95           | 23.93              | 23.93            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.77           | 22.73              | 22.70            |                     |
| 5               | 16QAM      | 12      | 7         | 22.74           | 22.70              | 22.79            |                     |
| 5               | 16QAM      | 12      | 13        | 22.69           | 22.76              | 22.68            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.73           | 22.71              | 22.70            |                     |
| 5               | 64QAM      | 1       | 0         | 22.46           | 22.42              | 22.84            |                     |
| 5               | 64QAM      | 1       | 12        | 22.83           | 22.87              | 22.86            | 22.7                |
| 5               | 64QAM      | 1       | 24        | 22.48           | 22.86              | 22.85            |                     |
| 5               | 64QAM      | 12      | 0         | 21.51           | 21.79              | 21.76            |                     |
| 5               | 64QAM      | 12      | 7         | 21.65           | 21.76              | 21.81            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.71           | 21.79              | 21.76            |                     |
| 5               | 64QAM      | 25      | 0         | 21.60           | 21.70              | 21.70            |                     |
| Channel         |            |         |           | 23025           | 23095              | 23165            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 700.5           | 707.5              | 714.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.62           | 24.60              | 24.61            | 25.7                |
| 3               | QPSK       | 1       | 8         | 24.62           | 24.62              | 24.60            |                     |
| 3               | QPSK       | 1       | 14        | 24.57           | 24.60              | 24.58            |                     |
| 3               | QPSK       | 8       | 0         | 23.69           | 23.70              | 22.70            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.69           | 23.94              | 22.71            |                     |
| 3               | QPSK       | 8       | 7         | 23.62           | 23.70              | 22.70            |                     |
| 3               | QPSK       | 15      | 0         | 23.70           | 23.66              | 22.70            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 24.00           | 24.02              | 23.95            |                     |
| 3               | 16QAM      | 1       | 8         | 23.96           | 23.98              | 23.98            |                     |
| 3               | 16QAM      | 1       | 14        | 23.91           | 23.96              | 23.91            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.75           | 22.71              | 22.71            |                     |
| 3               | 16QAM      | 8       | 4         | 22.78           | 22.75              | 22.82            |                     |
| 3               | 16QAM      | 8       | 7         | 22.71           | 22.77              | 22.71            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.73           | 22.69              | 22.68            |                     |
| 3               | 64QAM      | 1       | 0         | 22.46           | 22.70              | 22.87            |                     |
| 3               | 64QAM      | 1       | 8         | 22.67           | 22.88              | 22.90            | 22.7                |
| 3               | 64QAM      | 1       | 14        | 22.66           | 22.94              | 22.81            |                     |
| 3               | 64QAM      | 8       | 0         | 21.50           | 21.75              | 21.71            |                     |
| 3               | 64QAM      | 8       | 4         | 21.58           | 21.74              | 21.79            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.58           | 21.79              | 21.71            |                     |
| 3               | 64QAM      | 15      | 0         | 21.55           | 21.68              | 21.69            |                     |
| Channel         |            |         |           | 23017           | 23095              | 23173            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 699.7           | 707.5              | 715.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.54           | 24.50              | 24.53            | 25.7                |
| 1.4             | QPSK       | 1       | 3         | 24.60           | 24.61              | 24.57            |                     |
| 1.4             | QPSK       | 1       | 5         | 24.52           | 24.51              | 24.01            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.59           | 24.54              | 24.52            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.64           | 24.56              | 24.58            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.57           | 24.60              | 24.52            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.62           | 23.64              | 23.59            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.87           | 23.93              | 23.87            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.89           | 23.96              | 23.88            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.84           | 23.87              | 23.87            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.64           | 23.58              | 23.62            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.73           | 23.66              | 23.65            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.61           | 23.65              | 23.59            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.71           | 22.71              | 22.67            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.59           | 22.76              | 22.76            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.76           | 22.85              | 22.77            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.74           | 22.78              | 22.68            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.55           | 22.72              | 22.74            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.59           | 22.77              | 22.79            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.60           | 22.77              | 22.77            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.44           | 21.65              | 21.61            |                     |





| Band 13         |            |         |           |               |                  |                |                     |
|-----------------|------------|---------|-----------|---------------|------------------|----------------|---------------------|
| Ant 1           |            |         |           |               |                  |                |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. | Power Middle Ch. | Power High Ch. | Tune-up limit (dbm) |
| Channel         |            |         |           | 23230         |                  |                |                     |
| Frequency (MHz) |            |         |           | 782           |                  |                |                     |
| 10              | QPSK       | 1       | 0         |               | 24.17            |                | 25.2                |
| 10              | QPSK       | 1       | 25        |               | 24.10            |                |                     |
| 10              | QPSK       | 1       | 49        |               | 24.14            |                |                     |
| 10              | QPSK       | 25      | 0         |               | 23.17            |                | 24.2                |
| 10              | QPSK       | 25      | 12        |               | 23.21            |                |                     |
| 10              | QPSK       | 25      | 25        |               | 23.21            |                |                     |
| 10              | QPSK       | 50      | 0         |               | 23.20            |                | 24.2                |
| 10              | 16QAM      | 1       | 0         |               | 23.42            |                |                     |
| 10              | 16QAM      | 1       | 25        |               | 23.45            |                |                     |
| 10              | 16QAM      | 1       | 49        |               | 23.42            |                | 23.2                |
| 10              | 16QAM      | 25      | 0         |               | 22.29            |                |                     |
| 10              | 16QAM      | 25      | 12        |               | 22.23            |                |                     |
| 10              | 16QAM      | 25      | 25        |               | 22.20            |                | 23.2                |
| 10              | 16QAM      | 50      | 0         |               | 22.23            |                |                     |
| 10              | 64QAM      | 1       | 0         |               | 22.30            |                |                     |
| 10              | 64QAM      | 1       | 25        |               | 22.40            |                | 23.2                |
| 10              | 64QAM      | 1       | 49        |               | 22.34            |                |                     |
| 10              | 64QAM      | 25      | 0         |               | 21.24            |                |                     |
| 10              | 64QAM      | 25      | 12        |               | 21.23            |                | 22.2                |
| 10              | 64QAM      | 25      | 25        |               | 21.25            |                |                     |
| 10              | 64QAM      | 50      | 0         |               | 21.26            |                |                     |
| Channel         |            |         |           | 23205         | 23230            | 23255          | Tune-up limit (dbm) |
| Frequency (MHz) |            |         |           | 779.5         | 782              | 784.5          |                     |
| 5               | QPSK       | 1       | 0         | 24.15         | 24.11            | 24.16          | 25.2                |
| 5               | QPSK       | 1       | 12        | 24.16         | 24.14            | 24.11          |                     |
| 5               | QPSK       | 1       | 24        | 24.15         | 24.12            | 24.14          |                     |
| 5               | QPSK       | 12      | 0         | 23.22         | 23.22            | 23.17          | 24.2                |
| 5               | QPSK       | 12      | 7         | 23.28         | 23.20            | 23.19          |                     |
| 5               | QPSK       | 12      | 13        | 23.27         | 23.23            | 23.16          |                     |
| 5               | QPSK       | 25      | 0         | 23.28         | 23.18            | 23.17          | 24.2                |
| 5               | 16QAM      | 1       | 0         | 23.38         | 23.42            | 23.37          |                     |
| 5               | 16QAM      | 1       | 12        | 23.39         | 23.40            | 23.32          |                     |
| 5               | 16QAM      | 1       | 24        | 23.46         | 23.41            | 23.37          | 23.2                |
| 5               | 16QAM      | 12      | 0         | 22.29         | 22.25            | 22.23          |                     |
| 5               | 16QAM      | 12      | 7         | 22.31         | 22.23            | 22.24          |                     |
| 5               | 16QAM      | 12      | 13        | 22.29         | 22.26            | 22.24          | 23.2                |
| 5               | 16QAM      | 25      | 0         | 22.31         | 22.21            | 22.23          |                     |
| 5               | 64QAM      | 1       | 0         | 21.89         | 22.34            | 22.30          |                     |
| 5               | 64QAM      | 1       | 12        | 22.40         | 22.32            | 22.33          | 23.2                |
| 5               | 64QAM      | 1       | 24        | 22.38         | 22.38            | 22.32          |                     |
| 5               | 64QAM      | 12      | 0         | 21.34         | 21.30            | 21.26          |                     |
| 5               | 64QAM      | 12      | 7         | 21.32         | 21.26            | 21.25          | 22.2                |
| 5               | 64QAM      | 12      | 13        | 21.25         | 21.28            | 21.25          |                     |
| 5               | 64QAM      | 25      | 0         | 20.96         | 21.26            | 21.23          |                     |

| Band 14         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Ann 1           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23330          |                   |                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 793            |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 24.59             |                 | 25.7                |
| 10              | QPSK       | 1       | 25        |                | 24.53             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 24.43             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 23.56             |                 | 24.7                |
| 10              | QPSK       | 25      | 12        |                | 23.56             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 23.59             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 23.53             |                 | 24.7                |
| 10              | 16QAM      | 1       | 0         |                | 23.94             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 23.92             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 23.83             |                 | 23.7                |
| 10              | 16QAM      | 25      | 0         |                | 22.55             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 22.53             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 22.58             |                 | 23.7                |
| 10              | 16QAM      | 50      | 0         |                | 22.53             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 22.62             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 22.64             |                 | 23.7                |
| 10              | 64QAM      | 1       | 49        |                | 22.72             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 21.39             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 21.38             |                 | 22.7                |
| 10              | 64QAM      | 25      | 25        |                | 21.58             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 21.44             |                 |                     |
| Channel         |            |         |           | 23305          | 23330             | 23355           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 790.5          | 793               | 795.5           |                     |
| 5               | QPSK       | 1       | 0         | 24.51          | 24.49             | 24.44           | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.58          | 24.58             | 24.56           |                     |
| 5               | QPSK       | 1       | 24        | 24.54          | 24.49             | 24.43           |                     |
| 5               | QPSK       | 12      | 0         | 23.59          | 23.56             | 23.51           | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.66          | 23.57             | 23.53           |                     |
| 5               | QPSK       | 12      | 13        | 23.59          | 23.56             | 23.55           |                     |
| 5               | QPSK       | 25      | 0         | 23.58          | 23.53             | 23.50           | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.63          | 23.60             | 23.62           |                     |
| 5               | 16QAM      | 1       | 12        | 23.68          | 23.66             | 23.67           |                     |
| 5               | 16QAM      | 1       | 24        | 23.87          | 23.80             | 23.78           | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.64          | 22.57             | 22.55           |                     |
| 5               | 16QAM      | 12      | 7         | 22.64          | 22.64             | 22.58           |                     |
| 5               | 16QAM      | 12      | 13        | 22.61          | 22.59             | 22.58           | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.66          | 22.54             | 22.52           |                     |
| 5               | 64QAM      | 1       | 0         | 22.60          | 22.51             | 22.49           |                     |
| 5               | 64QAM      | 1       | 12        | 22.57          | 22.35             | 22.58           | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.32          | 22.41             | 22.77           |                     |
| 5               | 64QAM      | 12      | 0         | 21.50          | 21.32             | 21.31           |                     |
| 5               | 64QAM      | 12      | 7         | 21.44          | 21.28             | 21.63           | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.31          | 21.27             | 21.61           |                     |
| 5               | 64QAM      | 25      | 0         | 21.34          | 21.26             | 21.51           |                     |

| Band 17         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 23780           | 23790              | 23800            |                     |
| Frequency (MHz) |            |         |           | 709             | 710                | 711              |                     |
| 10              | QPSK       | 1       | 0         | 24.60           | 24.56              | 24.55            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.61           | 24.62              | 24.59            |                     |
| 10              | QPSK       | 1       | 49        | 24.64           | 24.67              | 24.63            |                     |
| 10              | QPSK       | 25      | 0         | 23.65           | 23.68              | 23.66            |                     |
| 10              | QPSK       | 25      | 12        | 23.79           | 23.75              | 23.70            | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.81           | 23.82              | 23.80            |                     |
| 10              | QPSK       | 50      | 0         | 23.69           | 23.72              | 23.69            |                     |
| 10              | 16QAM      | 1       | 0         | 23.93           | 23.95              | 23.94            |                     |
| 10              | 16QAM      | 1       | 25        | 24.03           | 24.06              | 24.01            | 24.7                |
| 10              | 16QAM      | 1       | 49        | 24.01           | 24.02              | 23.98            |                     |
| 10              | 16QAM      | 25      | 0         | 22.86           | 22.85              | 22.85            |                     |
| 10              | 16QAM      | 25      | 12        | 22.79           | 22.75              | 22.73            |                     |
| 10              | 16QAM      | 25      | 25        | 22.78           | 22.77              | 22.78            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.69           | 22.69              | 22.67            |                     |
| 10              | 64QAM      | 1       | 0         | 22.64           | 22.70              | 22.79            |                     |
| 10              | 64QAM      | 1       | 25        | 22.72           | 22.67              | 22.63            |                     |
| 10              | 64QAM      | 1       | 49        | 22.84           | 22.76              | 22.59            | 23.7                |
| 10              | 64QAM      | 25      | 0         | 21.42           | 21.42              | 21.41            |                     |
| 10              | 64QAM      | 25      | 12        | 21.51           | 21.48              | 21.48            |                     |
| 10              | 64QAM      | 25      | 25        | 21.61           | 21.67              | 21.66            |                     |
| 10              | 64QAM      | 50      | 0         | 21.53           | 21.64              | 21.57            | 22.7                |
| Channel         |            |         |           | 23785           | 23790              | 23825            |                     |
| Frequency (MHz) |            |         |           | 706.5           | 710                | 713.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.57           | 24.58              | 24.58            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.66           | 24.65              | 24.63            |                     |
| 5               | QPSK       | 1       | 24        | 24.65           | 24.66              | 24.64            |                     |
| 5               | QPSK       | 12      | 0         | 23.66           | 23.69              | 23.67            |                     |
| 5               | QPSK       | 12      | 7         | 23.76           | 23.76              | 23.78            | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.74           | 23.77              | 23.73            |                     |
| 5               | QPSK       | 25      | 0         | 23.74           | 23.71              | 23.75            |                     |
| 5               | 16QAM      | 1       | 0         | 23.91           | 23.93              | 23.91            |                     |
| 5               | 16QAM      | 1       | 12        | 23.95           | 23.97              | 23.96            | 24.7                |
| 5               | 16QAM      | 1       | 24        | 24.00           | 24.05              | 23.99            |                     |
| 5               | 16QAM      | 12      | 0         | 22.73           | 22.71              | 22.74            |                     |
| 5               | 16QAM      | 12      | 7         | 22.79           | 22.77              | 22.79            |                     |
| 5               | 16QAM      | 12      | 13        | 22.77           | 22.80              | 22.77            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.74           | 22.76              | 22.77            |                     |
| 5               | 64QAM      | 1       | 0         | 22.26           | 22.42              | 22.71            |                     |
| 5               | 64QAM      | 1       | 12        | 22.62           | 22.61              | 22.61            |                     |
| 5               | 64QAM      | 1       | 24        | 22.53           | 22.52              | 22.48            | 23.7                |
| 5               | 64QAM      | 12      | 0         | 21.55           | 21.47              | 21.65            |                     |
| 5               | 64QAM      | 12      | 7         | 21.69           | 21.47              | 21.76            |                     |
| 5               | 64QAM      | 12      | 13        | 21.66           | 21.50              | 21.70            |                     |
| 5               | 64QAM      | 25      | 0         | 21.52           | 21.44              | 21.59            | 22.7                |



| Band 25         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26140           | 26340              | 26590            |                     |
| Frequency (MHz) |            |         |           | 1860            | 1880               | 1905             |                     |
| 20              | QPSK       | 1       | 0         | 18.30           | 18.31              | 18.23            | 19.4                |
| 20              | QPSK       | 1       | 49        | 18.21           | 18.26              | 18.23            |                     |
| 20              | QPSK       | 1       | 99        | 18.24           | 18.20              | 18.21            |                     |
| 20              | QPSK       | 50      | 0         | 18.35           | 18.32              | 18.28            | 19.4                |
| 20              | QPSK       | 50      | 24        | 18.40           | 18.43              | 18.35            |                     |
| 20              | QPSK       | 50      | 50        | 18.33           | 18.37              | 18.33            |                     |
| 20              | QPSK       | 100     | 0         | 18.40           | 18.42              | 18.29            | 19.4                |
| 20              | 16QAM      | 1       | 0         | 18.65           | 18.63              | 18.61            |                     |
| 20              | 16QAM      | 1       | 49        | 18.57           | 18.61              | 18.55            |                     |
| 20              | 16QAM      | 1       | 99        | 18.46           | 18.55              | 18.48            | 19.4                |
| 20              | 16QAM      | 50      | 0         | 18.36           | 18.39              | 18.33            |                     |
| 20              | 16QAM      | 50      | 24        | 18.40           | 18.45              | 18.31            |                     |
| 20              | 16QAM      | 50      | 50        | 18.36           | 18.41              | 18.36            | 19.4                |
| 20              | 16QAM      | 100     | 0         | 18.39           | 18.40              | 18.32            |                     |
| 20              | 64QAM      | 1       | 0         | 18.55           | 18.49              | 18.48            |                     |
| 20              | 64QAM      | 1       | 49        | 18.49           | 18.51              | 18.43            | 19.4                |
| 20              | 64QAM      | 1       | 99        | 18.44           | 18.43              | 18.47            |                     |
| 20              | 64QAM      | 50      | 0         | 18.38           | 18.39              | 18.32            |                     |
| 20              | 64QAM      | 50      | 24        | 18.42           | 18.46              | 18.33            | 19.4                |
| 20              | 64QAM      | 50      | 50        | 18.36           | 18.39              | 18.37            |                     |
| 20              | 64QAM      | 100     | 0         | 18.39           | 18.44              | 18.31            |                     |
| Channel         |            |         |           | 26115           | 26340              | 26615            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1857.5          | 1880               | 1907.5           |                     |
| 15              | QPSK       | 1       | 0         | 18.30           | 18.22              | 18.20            | 19.4                |
| 15              | QPSK       | 1       | 37        | 18.24           | 18.25              | 18.21            |                     |
| 15              | QPSK       | 1       | 74        | 18.22           | 18.23              | 18.21            |                     |
| 15              | QPSK       | 36      | 0         | 18.29           | 18.25              | 18.25            | 19.4                |
| 15              | QPSK       | 36      | 20        | 18.30           | 18.39              | 18.28            |                     |
| 15              | QPSK       | 36      | 39        | 18.28           | 18.33              | 18.28            |                     |
| 15              | QPSK       | 75      | 0         | 18.31           | 18.36              | 18.28            | 19.4                |
| 15              | 16QAM      | 1       | 0         | 18.64           | 18.63              | 18.55            |                     |
| 15              | 16QAM      | 1       | 37        | 18.57           | 18.58              | 18.52            |                     |
| 15              | 16QAM      | 1       | 74        | 18.37           | 18.45              | 18.43            | 19.4                |
| 15              | 16QAM      | 36      | 0         | 18.32           | 18.31              | 18.27            |                     |
| 15              | 16QAM      | 36      | 20        | 18.34           | 18.43              | 18.31            |                     |
| 15              | 16QAM      | 36      | 39        | 18.32           | 18.41              | 18.29            | 19.4                |
| 15              | 16QAM      | 75      | 0         | 18.39           | 18.31              | 18.32            |                     |
| 15              | 64QAM      | 1       | 0         | 18.50           | 18.44              | 18.45            |                     |
| 15              | 64QAM      | 1       | 37        | 18.39           | 18.50              | 18.34            | 19.4                |
| 15              | 64QAM      | 1       | 74        | 18.42           | 18.40              | 18.44            |                     |
| 15              | 64QAM      | 36      | 0         | 18.31           | 18.29              | 18.22            |                     |
| 15              | 64QAM      | 36      | 20        | 18.33           | 18.45              | 18.24            | 19.4                |
| 15              | 64QAM      | 36      | 39        | 18.33           | 18.37              | 18.37            |                     |
| 15              | 64QAM      | 75      | 0         | 18.30           | 18.43              | 18.25            |                     |
| Channel         |            |         |           | 26090           | 26340              | 26640            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855            | 1880               | 1910             |                     |
| 10              | QPSK       | 1       | 0         | 18.23           | 18.27              | 18.22            | 19.4                |
| 10              | QPSK       | 1       | 25        | 18.21           | 18.25              | 18.21            |                     |
| 10              | QPSK       | 1       | 49        | 18.24           | 18.23              | 18.23            |                     |
| 10              | QPSK       | 25      | 0         | 18.31           | 18.27              | 18.24            | 19.4                |
| 10              | QPSK       | 25      | 12        | 18.30           | 18.36              | 18.26            |                     |
| 10              | QPSK       | 25      | 25        | 18.23           | 18.37              | 18.27            |                     |
| 10              | QPSK       | 50      | 0         | 18.34           | 18.37              | 18.26            | 19.4                |
| 10              | 16QAM      | 1       | 0         | 18.63           | 18.53              | 18.52            |                     |
| 10              | 16QAM      | 1       | 25        | 18.50           | 18.52              | 18.52            |                     |
| 10              | 16QAM      | 1       | 49        | 18.36           | 18.50              | 18.43            | 19.4                |
| 10              | 16QAM      | 25      | 0         | 18.33           | 18.35              | 18.27            |                     |
| 10              | 16QAM      | 25      | 12        | 18.40           | 18.44              | 18.21            |                     |
| 10              | 16QAM      | 25      | 25        | 18.34           | 18.34              | 18.34            | 19.4                |
| 10              | 16QAM      | 50      | 0         | 18.29           | 18.31              | 18.26            |                     |
| 10              | 64QAM      | 1       | 0         | 18.53           | 18.40              | 18.45            |                     |
| 10              | 64QAM      | 1       | 25        | 18.48           | 18.41              | 18.41            | 19.4                |
| 10              | 64QAM      | 1       | 49        | 18.34           | 18.33              | 18.36            |                     |
| 10              | 64QAM      | 25      | 0         | 18.31           | 18.34              | 18.24            |                     |
| 10              | 64QAM      | 25      | 12        | 18.40           | 18.45              | 18.32            | 19.4                |
| 10              | 64QAM      | 25      | 25        | 18.28           | 18.32              | 18.28            |                     |
| 10              | 64QAM      | 50      | 0         | 18.34           | 18.42              | 18.27            |                     |
| Channel         |            |         |           | 26065           | 26340              | 26665            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1852.5          | 1880               | 1912.5           |                     |
| 5               | QPSK       | 1       | 0         | 18.29           | 18.31              | 18.22            | 19.4                |
| 5               | QPSK       | 1       | 12        | 18.25           | 18.20              | 18.23            |                     |
| 5               | QPSK       | 1       | 24        | 18.24           | 18.22              | 18.24            |                     |
| 5               | QPSK       | 12      | 0         | 18.32           | 18.25              | 18.23            | 19.4                |
| 5               | QPSK       | 12      | 7         | 18.30           | 18.37              | 18.25            |                     |
| 5               | QPSK       | 12      | 13        | 18.24           | 18.29              | 18.23            |                     |
| 5               | QPSK       | 25      | 0         | 18.39           | 18.36              | 18.21            | 19.4                |
| 5               | 16QAM      | 1       | 0         | 18.57           | 18.56              | 18.51            |                     |
| 5               | 16QAM      | 1       | 12        | 18.48           | 18.58              | 18.45            |                     |
| 5               | 16QAM      | 1       | 24        | 18.37           | 18.55              | 18.44            | 19.4                |
| 5               | 16QAM      | 12      | 0         | 18.30           | 18.39              | 18.26            |                     |
| 5               | 16QAM      | 12      | 7         | 18.32           | 18.43              | 18.24            |                     |
| 5               | 16QAM      | 12      | 13        | 18.29           | 18.34              | 18.28            | 19.4                |
| 5               | 16QAM      | 25      | 0         | 18.36           | 18.33              | 18.24            |                     |
| 5               | 64QAM      | 1       | 0         | 18.55           | 18.47              | 18.45            |                     |
| 5               | 64QAM      | 1       | 12        | 18.42           | 18.42              | 18.38            | 19.4                |
| 5               | 64QAM      | 1       | 24        | 18.41           | 18.40              | 18.43            |                     |
| 5               | 64QAM      | 12      | 0         | 18.30           | 18.33              | 18.28            |                     |
| 5               | 64QAM      | 12      | 7         | 18.41           | 18.39              | 18.26            | 19.4                |
| 5               | 64QAM      | 12      | 13        | 18.34           | 18.36              | 18.31            |                     |
| 5               | 64QAM      | 25      | 0         | 18.38           | 18.43              | 18.25            |                     |
| Channel         |            |         |           | 26055           | 26340              | 26675            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1851.5          | 1880               | 1913.5           |                     |
| 3               | QPSK       | 1       | 0         | 18.22           | 18.24              | 18.24            | 19.4                |
| 3               | QPSK       | 1       | 8         | 18.23           | 18.21              | 18.20            |                     |
| 3               | QPSK       | 1       | 14        | 18.21           | 18.22              | 18.21            |                     |
| 3               | QPSK       | 8       | 0         | 18.35           | 18.28              | 18.28            | 19.4                |
| 3               | QPSK       | 8       | 4         | 18.30           | 18.36              | 18.33            |                     |
| 3               | QPSK       | 8       | 7         | 18.29           | 18.35              | 18.33            |                     |
| 3               | QPSK       | 15      | 0         | 18.35           | 18.40              | 18.26            | 19.4                |
| 3               | 16QAM      | 1       | 0         | 18.59           | 18.53              | 18.61            |                     |
| 3               | 16QAM      | 1       | 8         | 18.52           | 18.53              | 18.50            |                     |
| 3               | 16QAM      | 1       | 14        | 18.36           | 18.51              | 18.39            | 19.4                |
| 3               | 16QAM      | 8       | 0         | 18.32           | 18.34              | 18.32            |                     |
| 3               | 16QAM      | 8       | 4         | 18.31           | 18.43              | 18.29            |                     |
| 3               | 16QAM      | 8       | 7         | 18.31           | 18.32              | 18.28            | 19.4                |
| 3               | 16QAM      | 15      | 0         | 18.34           | 18.35              | 18.31            |                     |
| 3               | 64QAM      | 1       | 0         | 18.52           | 18.44              | 18.45            |                     |
| 3               | 64QAM      | 1       | 8         | 18.45           | 18.50              | 18.33            | 19.4                |
| 3               | 64QAM      | 1       | 14        | 18.41           | 18.37              | 18.47            |                     |
| 3               | 64QAM      | 8       | 0         | 18.36           | 18.30              | 18.31            |                     |
| 3               | 64QAM      | 8       | 4         | 18.34           | 18.42              | 18.32            | 19.4                |
| 3               | 64QAM      | 8       | 7         | 18.32           | 18.35              | 18.37            |                     |
| 3               | 64QAM      | 15      | 0         | 18.33           | 18.41              | 18.27            |                     |
| Channel         |            |         |           | 26047           | 26340              | 26683            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1850.7          | 1880               | 1914.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 18.30           | 18.26              | 18.24            | 19.4                |
| 1.4             | QPSK       | 1       | 3         | 18.23           | 18.25              | 18.21            |                     |
| 1.4             | QPSK       | 1       | 5         | 18.24           | 18.25              | 18.22            |                     |
| 1.4             | QPSK       | 3       | 0         | 18.25           | 18.32              | 18.23            | 19.4                |
| 1.4             | QPSK       | 3       | 1         | 18.38           | 18.33              | 18.35            |                     |
| 1.4             | QPSK       | 3       | 3         | 18.32           | 18.28              | 18.33            |                     |
| 1.4             | QPSK       | 6       | 0         | 18.37           | 18.42              | 18.24            | 19.4                |
| 1.4             | 16QAM      | 1       | 0         | 18.55           | 18.55              | 18.56            |                     |
| 1.4             | 16QAM      | 1       | 3         | 18.49           | 18.57              | 18.55            |                     |
| 1.4             | 16QAM      | 1       | 5         | 18.44           | 18.48              | 18.42            | 19.4                |
| 1.4             | 16QAM      | 3       | 0         | 18.28           | 18.30              | 18.28            |                     |
| 1.4             | 16QAM      | 3       | 1         | 18.35           | 18.45              | 18.28            |                     |
| 1.4             | 16QAM      | 3       | 3         | 18.34           | 18.36              | 18.29            | 19.4                |
| 1.4             | 16QAM      | 6       | 0         | 18.39           | 18.34              | 18.22            |                     |
| 1.4             | 64QAM      | 1       | 0         | 18.54           | 18.41              | 18.40            |                     |
| 1.4             | 64QAM      | 1       | 3         | 18.45           | 18.46              | 18.40            | 19.4                |
| 1.4             | 64QAM      | 1       | 5         | 18.42           | 18.38              | 18.45            |                     |
| 1.4             | 64QAM      | 3       | 0         | 18.37           | 18.28              | 18.30            |                     |
| 1.4             | 64QAM      | 3       | 1         | 18.33           | 18.36              | 18.33            | 19.4                |
| 1.4             | 64QAM      | 3       | 3         | 18.29           | 18.35              | 18.34            |                     |
| 1.4             | 64QAM      | 6       | 0         | 18.30           | 18.40              | 18.21            |                     |



| Band 26         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 26745           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 831.5           | 831.5              | 841.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.45           | 24.40              | 24.62            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.34           | 24.39              | 24.41            |                     |
| 15              | QPSK       | 1       | 74        | 24.35           | 24.39              | 24.31            |                     |
| 15              | QPSK       | 36      | 0         | 23.51           | 23.51              | 23.54            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.52           | 23.49              | 23.50            |                     |
| 15              | QPSK       | 36      | 39        | 23.50           | 23.51              | 23.49            |                     |
| 15              | QPSK       | 75      | 0         | 23.54           | 23.48              | 23.52            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 23.79           | 23.73              | 23.79            |                     |
| 15              | 16QAM      | 1       | 37        | 23.67           | 23.74              | 23.74            |                     |
| 15              | 16QAM      | 1       | 74        | 23.64           | 23.68              | 23.59            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.51           | 22.54              | 22.58            |                     |
| 15              | 16QAM      | 36      | 20        | 22.53           | 22.51              | 22.50            |                     |
| 15              | 16QAM      | 36      | 39        | 22.50           | 22.53              | 22.54            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.54           | 22.51              | 22.55            |                     |
| 15              | 64QAM      | 1       | 0         | 22.48           | 22.58              | 22.61            | 23.7                |
| 15              | 64QAM      | 1       | 37        | 22.43           | 22.68              | 22.68            |                     |
| 15              | 64QAM      | 1       | 74        | 22.57           | 22.61              | 21.80            |                     |
| 15              | 64QAM      | 36      | 0         | 21.21           | 21.58              | 21.60            | 22.7                |
| 15              | 64QAM      | 36      | 20        | 21.40           | 21.53              | 21.54            |                     |
| 15              | 64QAM      | 36      | 39        | 21.54           | 21.58              | 21.28            |                     |
| 15              | 64QAM      | 75      | 0         | 21.53           | 21.51              | 21.47            | Tune-up limit (dBm) |
| Channel         |            |         |           | 26740           | 26865              | 26990            |                     |
| Frequency (MHz) |            |         |           | 819             | 831.5              | 844              |                     |
| 10              | QPSK       | 1       | 0         | 24.56           | 24.50              | 24.50            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.44           | 24.47              | 24.45            |                     |
| 10              | QPSK       | 1       | 49        | 24.46           | 24.49              | 24.37            |                     |
| 10              | QPSK       | 25      | 0         | 23.64           | 23.56              | 23.57            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.58           | 23.54              | 23.57            |                     |
| 10              | QPSK       | 25      | 25        | 23.53           | 23.57              | 23.49            |                     |
| 10              | QPSK       | 50      | 0         | 23.57           | 23.53              | 23.49            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 23.92           | 23.87              | 23.87            |                     |
| 10              | 16QAM      | 1       | 25        | 23.85           | 23.87              | 23.86            |                     |
| 10              | 16QAM      | 1       | 49        | 23.86           | 23.90              | 23.75            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.62           | 22.57              | 22.57            |                     |
| 10              | 16QAM      | 25      | 12        | 22.60           | 22.55              | 22.57            |                     |
| 10              | 16QAM      | 25      | 25        | 22.53           | 22.58              | 22.53            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.58           | 22.54              | 22.54            |                     |
| 10              | 64QAM      | 1       | 0         | 22.49           | 22.73              | 22.75            |                     |
| 10              | 64QAM      | 1       | 25        | 22.33           | 22.80              | 22.64            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.74           | 22.81              | 21.98            |                     |
| 10              | 64QAM      | 25      | 0         | 21.24           | 21.61              | 21.61            |                     |
| 10              | 64QAM      | 25      | 12        | 21.16           | 21.61              | 21.57            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 21.31           | 21.58              | 20.89            |                     |
| 10              | 64QAM      | 50      | 0         | 21.25           | 21.57              | 21.38            |                     |
| Channel         |            |         |           | 26715           | 26865              | 27015            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 816.5           | 831.5              | 846.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.61           | 24.51              | 24.54            |                     |
| 5               | QPSK       | 1       | 12        | 24.56           | 24.55              | 24.17            | 25.7                |
| 5               | QPSK       | 1       | 24        | 24.46           | 24.53              | 24.41            |                     |
| 5               | QPSK       | 12      | 0         | 23.64           | 23.59              | 23.60            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.63           | 23.63              | 23.33            |                     |
| 5               | QPSK       | 12      | 13        | 23.58           | 23.56              | 23.38            |                     |
| 5               | QPSK       | 25      | 0         | 23.64           | 23.54              | 23.39            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.95           | 23.85              | 23.86            |                     |
| 5               | 16QAM      | 1       | 12        | 23.84           | 23.87              | 23.49            |                     |
| 5               | 16QAM      | 1       | 24        | 23.77           | 23.88              | 23.69            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.71           | 22.85              | 22.81            |                     |
| 5               | 16QAM      | 12      | 7         | 22.67           | 22.64              | 22.48            |                     |
| 5               | 16QAM      | 12      | 13        | 22.55           | 22.59              | 22.45            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.61           | 22.56              | 22.57            |                     |
| 5               | 64QAM      | 1       | 0         | 22.36           | 22.77              | 22.28            |                     |
| 5               | 64QAM      | 1       | 12        | 22.31           | 22.76              | 21.70            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 22.14           | 22.79              | 21.71            |                     |
| 5               | 64QAM      | 12      | 0         | 21.36           | 21.70              | 20.92            |                     |
| 5               | 64QAM      | 12      | 7         | 21.29           | 21.69              | 20.95            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 21.16           | 21.65              | 20.83            |                     |
| 5               | 64QAM      | 25      | 0         | 21.20           | 21.58              | 20.73            |                     |
| Channel         |            |         |           | 26705           | 26865              | 27025            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 815.5           | 831.5              | 847.5            |                     |
| 3               | QPSK       | 1       | 0         | 24.59           | 24.50              | 24.25            |                     |
| 3               | QPSK       | 1       | 8         | 24.60           | 24.57              | 24.26            | 25.7                |
| 3               | QPSK       | 1       | 14        | 24.46           | 24.50              | 24.37            |                     |
| 3               | QPSK       | 8       | 0         | 23.89           | 23.57              | 23.20            | 24.7                |
| 3               | QPSK       | 8       | 4         | 23.68           | 23.63              | 23.32            |                     |
| 3               | QPSK       | 8       | 7         | 23.61           | 23.55              | 23.49            |                     |
| 3               | QPSK       | 15      | 0         | 23.66           | 23.58              | 23.29            | 24.7                |
| 3               | 16QAM      | 1       | 0         | 23.93           | 23.83              | 23.53            |                     |
| 3               | 16QAM      | 1       | 8         | 23.92           | 23.91              | 23.53            |                     |
| 3               | 16QAM      | 1       | 14        | 23.81           | 23.90              | 23.67            | 23.7                |
| 3               | 16QAM      | 8       | 0         | 22.74           | 22.63              | 22.36            |                     |
| 3               | 16QAM      | 8       | 4         | 22.75           | 22.67              | 22.45            |                     |
| 3               | 16QAM      | 8       | 7         | 22.65           | 22.66              | 22.54            | 23.7                |
| 3               | 16QAM      | 15      | 0         | 22.64           | 22.59              | 22.44            |                     |
| 3               | 64QAM      | 1       | 0         | 22.41           | 22.74              | 21.71            |                     |
| 3               | 64QAM      | 1       | 8         | 22.49           | 22.84              | 21.84            | 23.7                |
| 3               | 64QAM      | 1       | 14        | 22.30           | 22.80              | 21.76            |                     |
| 3               | 64QAM      | 8       | 0         | 21.40           | 21.65              | 20.75            |                     |
| 3               | 64QAM      | 8       | 4         | 21.44           | 21.72              | 20.79            | 22.7                |
| 3               | 64QAM      | 8       | 7         | 21.37           | 21.63              | 20.72            |                     |
| 3               | 64QAM      | 15      | 0         | 21.36           | 21.60              | 20.82            |                     |
| Channel         |            |         |           | 26697           | 26865              | 27033            | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 814.7           | 831.5              | 848.3            |                     |
| 1.4             | QPSK       | 1       | 0         | 24.54           | 24.43              | 24.20            |                     |
| 1.4             | QPSK       | 1       | 3         | 24.56           | 24.54              | 24.39            | 25.7                |
| 1.4             | QPSK       | 1       | 5         | 24.45           | 24.41              | 24.28            |                     |
| 1.4             | QPSK       | 3       | 0         | 24.56           | 24.43              | 24.39            | 24.7                |
| 1.4             | QPSK       | 3       | 1         | 24.58           | 24.46              | 24.40            |                     |
| 1.4             | QPSK       | 3       | 3         | 24.53           | 24.46              | 24.36            |                     |
| 1.4             | QPSK       | 6       | 0         | 23.80           | 23.53              | 23.42            | 24.7                |
| 1.4             | 16QAM      | 1       | 0         | 23.86           | 23.73              | 23.57            |                     |
| 1.4             | 16QAM      | 1       | 3         | 23.90           | 23.90              | 23.76            |                     |
| 1.4             | 16QAM      | 1       | 5         | 23.79           | 23.75              | 23.66            | 24.7                |
| 1.4             | 16QAM      | 3       | 0         | 23.62           | 23.52              | 23.44            |                     |
| 1.4             | 16QAM      | 3       | 1         | 23.67           | 23.57              | 23.51            |                     |
| 1.4             | 16QAM      | 3       | 3         | 23.58           | 23.54              | 23.43            | 23.7                |
| 1.4             | 16QAM      | 6       | 0         | 22.66           | 22.58              | 22.52            |                     |
| 1.4             | 64QAM      | 1       | 0         | 22.39           | 22.67              | 21.78            |                     |
| 1.4             | 64QAM      | 1       | 3         | 22.45           | 22.75              | 21.75            | 23.7                |
| 1.4             | 64QAM      | 1       | 5         | 22.41           | 22.65              | 21.74            |                     |
| 1.4             | 64QAM      | 3       | 0         | 22.39           | 22.66              | 21.80            |                     |
| 1.4             | 64QAM      | 3       | 1         | 22.46           | 22.69              | 21.71            | 22.7                |
| 1.4             | 64QAM      | 3       | 3         | 22.43           | 22.64              | 21.82            |                     |
| 1.4             | 64QAM      | 6       | 0         | 21.34           | 21.56              | 20.84            |                     |

| Band 30         |            |         |           |                |                   |                 |                     |
|-----------------|------------|---------|-----------|----------------|-------------------|-----------------|---------------------|
| Annex           |            |         |           |                |                   |                 |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / | Power Middle Ch / | Power High Ch / | Tune-up limit (dBm) |
| Channel         |            |         |           | 2771.0         |                   |                 |                     |
| Frequency (MHz) |            |         |           | 231.0          |                   |                 |                     |
| 10              | QPSK       | 1       | 0         |                | 20.72             |                 | 21.5                |
| 10              | QPSK       | 1       | 25        |                | 20.49             |                 |                     |
| 10              | QPSK       | 1       | 49        |                | 20.50             |                 |                     |
| 10              | QPSK       | 25      | 0         |                | 20.56             |                 | 21.5                |
| 10              | QPSK       | 25      | 12        |                | 20.61             |                 |                     |
| 10              | QPSK       | 25      | 25        |                | 20.70             |                 |                     |
| 10              | QPSK       | 50      | 0         |                | 20.59             |                 | 21.5                |
| 10              | 16QAM      | 1       | 0         |                | 20.87             |                 |                     |
| 10              | 16QAM      | 1       | 25        |                | 20.86             |                 |                     |
| 10              | 16QAM      | 1       | 49        |                | 20.88             |                 | 21.5                |
| 10              | 16QAM      | 25      | 0         |                | 20.53             |                 |                     |
| 10              | 16QAM      | 25      | 12        |                | 20.56             |                 |                     |
| 10              | 16QAM      | 25      | 25        |                | 20.68             |                 | 21.5                |
| 10              | 16QAM      | 50      | 0         |                | 20.56             |                 |                     |
| 10              | 64QAM      | 1       | 0         |                | 20.74             |                 |                     |
| 10              | 64QAM      | 1       | 25        |                | 20.80             |                 | 21.5                |
| 10              | 64QAM      | 1       | 49        |                | 20.77             |                 |                     |
| 10              | 64QAM      | 25      | 0         |                | 19.75             |                 |                     |
| 10              | 64QAM      | 25      | 12        |                | 19.81             |                 | 20.5                |
| 10              | 64QAM      | 25      | 25        |                | 19.89             |                 |                     |
| 10              | 64QAM      | 50      | 0         |                | 19.78             |                 |                     |
| Channel         |            |         |           | 2788.5         | 2771.0            | 2773.5          | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2307.5         | 231.0             | 2312.5          |                     |
| 5               | QPSK       | 1       | 0         | 20.44          | 20.48             | 20.45           | 21.5                |
| 5               | QPSK       | 1       | 12        | 20.53          | 20.62             | 20.56           |                     |
| 5               | QPSK       | 1       | 24        | 20.60          | 20.60             | 20.52           |                     |
| 5               | QPSK       | 12      | 0         | 20.63          | 20.55             | 20.59           | 21.5                |
| 5               | QPSK       | 12      | 7         | 20.66          | 20.67             | 20.62           |                     |
| 5               | QPSK       | 12      | 13        | 20.65          | 20.66             | 20.59           |                     |
| 5               | QPSK       | 25      | 0         | 20.66          | 20.54             | 20.55           | 21.5                |
| 5               | 16QAM      | 1       | 0         | 20.77          | 20.76             | 20.76           |                     |
| 5               | 16QAM      | 1       | 12        | 20.87          | 20.85             | 20.86           |                     |
| 5               | 16QAM      | 1       | 24        | 20.81          | 20.82             | 20.85           | 21.5                |
| 5               | 16QAM      | 12      | 0         | 20.60          | 20.53             | 20.59           |                     |
| 5               | 16QAM      | 12      | 7         | 20.64          | 20.65             | 20.65           |                     |
| 5               | 16QAM      | 12      | 13        | 20.65          | 20.64             | 20.64           | 21.5                |
| 5               | 16QAM      | 25      | 0         | 20.64          | 20.57             | 20.63           |                     |
| 5               | 64QAM      | 1       | 0         | 20.70          | 20.71             | 20.72           |                     |
| 5               | 64QAM      | 1       | 12        | 20.73          | 20.75             | 20.74           | 21.5                |
| 5               | 64QAM      | 1       | 24        | 20.82          | 20.83             | 20.84           |                     |
| 5               | 64QAM      | 12      | 0         | 19.84          | 19.80             | 19.83           |                     |
| 5               | 64QAM      | 12      | 7         | 19.89          | 19.89             | 19.87           | 20.5                |
| 5               | 64QAM      | 12      | 13        | 19.90          | 19.89             | 19.87           |                     |
| 5               | 64QAM      | 25      | 0         | 19.84          | 19.77             | 19.81           |                     |



| Band 66         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ann 0           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 132072          | 132322             | 132592           |                     |
| Frequency (MHz) |            |         |           | 1720            | 1745               | 1770             |                     |
| 20              | QPSK       | 1       | 0         | 18.83           | 18.90              | 18.88            | 20                  |
| 20              | QPSK       | 1       | 49        | 18.80           | 18.82              | 18.86            |                     |
| 20              | QPSK       | 1       | 99        | 18.82           | 18.88              | 18.82            |                     |
| 20              | QPSK       | 50      | 0         | 18.80           | 18.81              | 18.80            | 20                  |
| 20              | QPSK       | 50      | 24        | 18.80           | 18.82              | 18.81            |                     |
| 20              | QPSK       | 50      | 50        | 18.81           | 18.83              | 18.81            |                     |
| 20              | QPSK       | 100     | 0         | 18.86           | 18.84              | 18.94            | 20                  |
| 20              | 16QAM      | 1       | 0         | 19.13           | 19.15              | 19.23            |                     |
| 20              | 16QAM      | 1       | 49        | 19.04           | 19.08              | 19.11            |                     |
| 20              | 16QAM      | 1       | 99        | 19.19           | 19.09              | 19.08            | 20                  |
| 20              | 16QAM      | 50      | 0         | 18.87           | 18.91              | 18.98            |                     |
| 20              | 16QAM      | 50      | 24        | 18.94           | 18.90              | 18.93            |                     |
| 20              | 16QAM      | 50      | 50        | 18.91           | 18.94              | 19.00            | 20                  |
| 20              | 16QAM      | 100     | 0         | 18.90           | 18.88              | 18.96            |                     |
| 20              | 64QAM      | 1       | 0         | 19.04           | 19.05              | 19.03            | 20                  |
| 20              | 64QAM      | 1       | 49        | 18.92           | 18.91              | 18.87            |                     |
| 20              | 64QAM      | 1       | 99        | 19.06           | 19.05              | 18.97            |                     |
| 20              | 64QAM      | 50      | 0         | 18.89           | 18.93              | 19.01            | 20                  |
| 20              | 64QAM      | 50      | 24        | 18.95           | 18.90              | 18.94            |                     |
| 20              | 64QAM      | 50      | 50        | 18.92           | 18.95              | 18.98            |                     |
| 20              | 64QAM      | 100     | 0         | 18.93           | 18.88              | 18.95            | Tune-up limit (dBm) |
| Channel         |            |         |           | 132047          | 132322             | 132597           |                     |
| Frequency (MHz) |            |         |           | 1717.5          | 1745               | 1772.5           |                     |
| 15              | QPSK       | 1       | 0         | 18.80           | 18.83              | 18.88            | 20                  |
| 15              | QPSK       | 1       | 37        | 18.80           | 18.80              | 18.80            |                     |
| 15              | QPSK       | 1       | 74        | 18.80           | 18.82              | 18.80            |                     |
| 15              | QPSK       | 36      | 0         | 18.81           | 18.90              | 18.94            | 20                  |
| 15              | QPSK       | 36      | 20        | 18.86           | 18.83              | 18.93            |                     |
| 15              | QPSK       | 36      | 39        | 18.88           | 18.91              | 18.99            |                     |
| 15              | QPSK       | 75      | 0         | 18.89           | 18.86              | 18.94            | 20                  |
| 15              | 16QAM      | 1       | 0         | 19.12           | 19.15              | 19.17            |                     |
| 15              | 16QAM      | 1       | 37        | 19.03           | 19.06              | 19.12            |                     |
| 15              | 16QAM      | 1       | 74        | 19.12           | 19.13              | 19.10            | 20                  |
| 15              | 16QAM      | 36      | 0         | 18.86           | 18.90              | 18.95            |                     |
| 15              | 16QAM      | 36      | 20        | 18.92           | 18.86              | 18.90            |                     |
| 15              | 16QAM      | 36      | 39        | 18.90           | 18.95              | 18.98            | 20                  |
| 15              | 16QAM      | 75      | 0         | 18.94           | 18.97              | 18.94            |                     |
| 15              | 64QAM      | 1       | 0         | 19.04           | 18.96              | 19.04            |                     |
| 15              | 64QAM      | 1       | 37        | 18.96           | 19.00              | 19.04            | 20                  |
| 15              | 64QAM      | 1       | 74        | 19.02           | 19.04              | 19.02            |                     |
| 15              | 64QAM      | 36      | 0         | 18.87           | 18.94              | 18.97            |                     |
| 15              | 64QAM      | 36      | 20        | 18.91           | 18.89              | 18.93            | 20                  |
| 15              | 64QAM      | 36      | 39        | 18.91           | 18.97              | 19.00            |                     |
| 15              | 64QAM      | 75      | 0         | 18.92           | 18.89              | 18.93            |                     |
| Channel         |            |         |           | 132022          | 132322             | 132622           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1715            | 1745               | 1775             |                     |
| 10              | QPSK       | 1       | 0         | 18.81           | 18.83              | 18.89            | 20                  |
| 10              | QPSK       | 1       | 25        | 18.80           | 18.83              | 18.88            |                     |
| 10              | QPSK       | 1       | 49        | 18.80           | 18.82              | 18.88            |                     |
| 10              | QPSK       | 25      | 0         | 18.82           | 18.86              | 18.92            | 20                  |
| 10              | QPSK       | 25      | 12        | 18.90           | 18.89              | 18.94            |                     |
| 10              | QPSK       | 25      | 25        | 18.86           | 18.95              | 18.98            |                     |
| 10              | QPSK       | 50      | 0         | 18.89           | 18.90              | 18.96            | 20                  |
| 10              | 16QAM      | 1       | 0         | 19.21           | 19.22              | 19.17            |                     |
| 10              | 16QAM      | 1       | 25        | 19.12           | 19.20              | 19.14            |                     |
| 10              | 16QAM      | 1       | 49        | 19.12           | 19.17              | 19.15            | 20                  |
| 10              | 16QAM      | 25      | 0         | 18.91           | 18.99              | 18.96            |                     |
| 10              | 16QAM      | 25      | 12        | 18.94           | 18.91              | 18.99            |                     |
| 10              | 16QAM      | 25      | 25        | 18.89           | 18.96              | 19.00            | 20                  |
| 10              | 16QAM      | 50      | 0         | 18.92           | 18.89              | 18.95            |                     |
| 10              | 64QAM      | 1       | 0         | 19.04           | 19.07              | 19.11            |                     |
| 10              | 64QAM      | 1       | 25        | 19.05           | 19.11              | 19.18            | 20                  |
| 10              | 64QAM      | 1       | 49        | 18.99           | 19.09              | 19.20            |                     |
| 10              | 64QAM      | 25      | 0         | 18.92           | 18.92              | 19.00            |                     |
| 10              | 64QAM      | 25      | 12        | 18.95           | 18.93              | 19.03            | 20                  |
| 10              | 64QAM      | 25      | 25        | 18.90           | 18.96              | 19.08            |                     |
| 10              | 64QAM      | 50      | 0         | 18.94           | 18.92              | 19.02            |                     |
| Channel         |            |         |           | 131997          | 132322             | 132647           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1712.5          | 1745               | 1777.5           |                     |
| 5               | QPSK       | 1       | 0         | 18.80           | 18.80              | 18.87            | 20                  |
| 5               | QPSK       | 1       | 12        | 18.87           | 18.80              | 18.95            |                     |
| 5               | QPSK       | 1       | 24        | 18.80           | 18.84              | 18.91            |                     |
| 5               | QPSK       | 12      | 0         | 18.92           | 18.88              | 19.00            | 20                  |
| 5               | QPSK       | 12      | 7         | 18.93           | 18.96              | 19.06            |                     |
| 5               | QPSK       | 12      | 13        | 18.92           | 18.95              | 19.02            |                     |
| 5               | QPSK       | 25      | 0         | 18.91           | 18.87              | 18.99            | 20                  |
| 5               | 16QAM      | 1       | 0         | 19.14           | 19.11              | 19.16            |                     |
| 5               | 16QAM      | 1       | 12        | 19.18           | 19.14              | 19.19            |                     |
| 5               | 16QAM      | 1       | 24        | 19.10           | 19.19              | 19.20            | 20                  |
| 5               | 16QAM      | 12      | 0         | 18.93           | 18.93              | 19.06            |                     |
| 5               | 16QAM      | 12      | 7         | 18.96           | 19.02              | 19.08            |                     |
| 5               | 16QAM      | 12      | 13        | 18.95           | 18.99              | 19.02            | 20                  |
| 5               | 16QAM      | 25      | 0         | 18.92           | 18.92              | 19.03            |                     |
| 5               | 64QAM      | 1       | 0         | 19.10           | 19.04              | 19.14            |                     |
| 5               | 64QAM      | 1       | 12        | 19.11           | 19.11              | 19.12            | 20                  |
| 5               | 64QAM      | 1       | 24        | 19.07           | 19.09              | 19.09            |                     |
| 5               | 64QAM      | 12      | 0         | 18.96           | 18.97              | 19.12            |                     |
| 5               | 64QAM      | 12      | 7         | 18.97           | 19.02              | 19.11            | 20                  |
| 5               | 64QAM      | 12      | 13        | 18.96           | 19.00              | 19.10            |                     |
| 5               | 64QAM      | 25      | 0         | 18.91           | 18.89              | 19.05            |                     |
| Channel         |            |         |           | 131987          | 132322             | 132657           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1711.5          | 1745               | 1778.5           |                     |
| 3               | QPSK       | 1       | 0         | 18.82           | 18.80              | 18.82            | 20                  |
| 3               | QPSK       | 1       | 8         | 18.91           | 18.86              | 18.86            |                     |
| 3               | QPSK       | 1       | 14        | 18.86           | 18.80              | 18.84            |                     |
| 3               | QPSK       | 8       | 0         | 18.89           | 18.83              | 18.92            | 20                  |
| 3               | QPSK       | 8       | 4         | 18.86           | 18.90              | 18.93            |                     |
| 3               | QPSK       | 8       | 7         | 18.93           | 18.89              | 18.90            |                     |
| 3               | QPSK       | 15      | 0         | 18.91           | 18.81              | 18.91            | 20                  |
| 3               | 16QAM      | 1       | 0         | 19.07           | 19.06              | 19.16            |                     |
| 3               | 16QAM      | 1       | 8         | 19.15           | 19.11              | 19.16            |                     |
| 3               | 16QAM      | 1       | 14        | 19.15           | 19.09              | 19.13            | 20                  |
| 3               | 16QAM      | 8       | 0         | 18.90           | 18.85              | 18.96            |                     |
| 3               | 16QAM      | 8       | 4         | 18.99           | 18.94              | 18.98            |                     |
| 3               | 16QAM      | 8       | 7         | 18.99           | 18.92              | 18.93            | 20                  |
| 3               | 16QAM      | 15      | 0         | 18.96           | 18.83              | 18.93            |                     |
| 3               | 64QAM      | 1       | 0         | 19.05           | 18.97              | 19.08            |                     |
| 3               | 64QAM      | 1       | 8         | 19.15           | 19.13              | 19.09            | 20                  |
| 3               | 64QAM      | 1       | 14        | 19.07           | 19.06              | 19.00            |                     |
| 3               | 64QAM      | 8       | 0         | 18.97           | 18.89              | 18.96            |                     |
| 3               | 64QAM      | 8       | 4         | 19.04           | 18.99              | 19.01            | 20                  |
| 3               | 64QAM      | 8       | 7         | 19.00           | 18.95              | 18.97            |                     |
| 3               | 64QAM      | 15      | 0         | 18.97           | 18.86              | 18.95            |                     |
| Channel         |            |         |           | 131979          | 132322             | 132665           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1710.7          | 1745               | 1779.3           |                     |
| 1.4             | QPSK       | 1       | 0         | 18.81           | 18.87              | 18.91            | 20                  |
| 1.4             | QPSK       | 1       | 3         | 18.85           | 18.91              | 18.96            |                     |
| 1.4             | QPSK       | 1       | 5         | 18.80           | 18.83              | 18.89            |                     |
| 1.4             | QPSK       | 3       | 0         | 18.84           | 18.90              | 18.92            | 20                  |
| 1.4             | QPSK       | 3       | 1         | 18.89           | 18.94              | 18.96            |                     |
| 1.4             | QPSK       | 3       | 3         | 18.85           | 18.90              | 18.93            |                     |
| 1.4             | QPSK       | 6       | 0         | 18.91           | 18.96              | 19.00            | 20                  |
| 1.4             | 16QAM      | 1       | 0         | 19.16           | 19.20              | 19.22            |                     |
| 1.4             | 16QAM      | 1       | 3         | 19.22           | 19.08              | 19.11            |                     |
| 1.4             | 16QAM      | 1       | 5         | 19.15           | 19.17              | 19.22            | 20                  |
| 1.4             | 16QAM      | 3       | 0         | 18.94           | 18.97              | 18.99            |                     |
| 1.4             | 16QAM      | 3       | 1         | 19.02           | 19.01              | 19.06            |                     |
| 1.4             | 16QAM      | 3       | 3         | 18.92           | 18.97              | 19.01            | 20                  |
| 1.4             | 16QAM      | 6       | 0         | 18.96           | 19.04              | 19.10            |                     |
| 1.4             | 64QAM      | 1       | 0         | 19.11           | 19.09              | 19.17            |                     |
| 1.4             | 64QAM      | 1       | 3         | 19.14           | 19.15              | 19.22            | 20                  |
| 1.4             | 64QAM      | 1       | 5         | 19.06           | 19.10              | 19.16            |                     |
| 1.4             | 64QAM      | 3       | 0         | 19.03           | 19.06              | 19.15            |                     |
| 1.4             | 64QAM      | 3       | 1         | 19.06           | 19.13              | 19.20            | 20                  |
| 1.4             | 64QAM      | 3       | 3         | 19.02           | 19.07              | 19.14            |                     |
| 1.4             | 64QAM      | 6       | 0         | 18.91           | 18.97              | 19.06            |                     |



| Band 71         |            |         |           |                 |                    |                  |                     |
|-----------------|------------|---------|-----------|-----------------|--------------------|------------------|---------------------|
| Ant 1           |            |         |           |                 |                    |                  |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / | Power Middle Ch. / | Power High Ch. / | Tune-up limit (dBm) |
| Channel         |            |         |           | 133222          | 133332             | 133372           |                     |
| Frequency (MHz) |            |         |           | 673             | 683                | 688              |                     |
| 20              | QPSK       | 1       | 0         | 24.67           | 24.60              | 24.58            | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.58           | 24.59              | 24.56            |                     |
| 20              | QPSK       | 1       | 99        | 24.61           | 24.56              | 24.53            |                     |
| 20              | QPSK       | 50      | 0         | 23.69           | 23.68              | 23.64            | 24.7                |
| 20              | QPSK       | 50      | 24        | 23.74           | 23.67              | 23.63            |                     |
| 20              | QPSK       | 50      | 50        | 23.75           | 23.69              | 23.68            |                     |
| 20              | QPSK       | 100     | 0         | 23.72           | 23.66              | 23.71            | 24.7                |
| 20              | 16QAM      | 1       | 0         | 23.99           | 23.90              | 23.92            |                     |
| 20              | 16QAM      | 1       | 49        | 23.94           | 23.93              | 23.91            |                     |
| 20              | 16QAM      | 1       | 99        | 23.97           | 23.91              | 23.93            | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.69           | 22.68              | 22.67            |                     |
| 20              | 16QAM      | 50      | 24        | 22.75           | 22.68              | 22.66            |                     |
| 20              | 16QAM      | 50      | 50        | 22.75           | 22.73              | 22.68            | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.72           | 22.65              | 22.70            |                     |
| 20              | 64QAM      | 1       | 0         | 21.88           | 22.69              | 22.77            |                     |
| 20              | 64QAM      | 1       | 49        | 22.51           | 22.82              | 22.02            | 23.7                |
| 20              | 64QAM      | 1       | 99        | 22.87           | 22.68              | 22.85            |                     |
| 20              | 64QAM      | 50      | 0         | 20.78           | 21.69              | 21.35            |                     |
| 20              | 64QAM      | 50      | 24        | 21.19           | 21.42              | 21.50            | 22.7                |
| 20              | 64QAM      | 50      | 50        | 21.70           | 21.49              | 21.63            |                     |
| 20              | 64QAM      | 100     | 0         | 21.39           | 21.66              | 21.66            |                     |
| Channel         |            |         |           | 133197          | 133297             | 133397           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 670.5           | 680.5              | 690.5            |                     |
| 15              | QPSK       | 1       | 0         | 24.65           | 24.60              | 24.56            | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.65           | 24.58              | 24.52            |                     |
| 15              | QPSK       | 1       | 74        | 24.58           | 24.62              | 24.55            |                     |
| 15              | QPSK       | 36      | 0         | 23.67           | 23.69              | 23.61            | 24.7                |
| 15              | QPSK       | 36      | 20        | 23.75           | 23.67              | 23.71            |                     |
| 15              | QPSK       | 36      | 39        | 23.65           | 23.71              | 23.65            |                     |
| 15              | QPSK       | 75      | 0         | 23.73           | 23.65              | 23.60            | 24.7                |
| 15              | 16QAM      | 1       | 0         | 24.04           | 23.93              | 23.89            |                     |
| 15              | 16QAM      | 1       | 37        | 23.69           | 23.98              | 23.91            |                     |
| 15              | 16QAM      | 1       | 74        | 23.91           | 23.91              | 23.90            | 23.7                |
| 15              | 16QAM      | 36      | 0         | 22.63           | 22.67              | 22.63            |                     |
| 15              | 16QAM      | 36      | 20        | 22.72           | 22.69              | 22.71            |                     |
| 15              | 16QAM      | 36      | 39        | 22.69           | 22.71              | 22.68            | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.75           | 22.67              | 22.62            |                     |
| 15              | 64QAM      | 1       | 0         | 21.76           | 22.28              | 22.61            |                     |
| 15              | 64QAM      | 1       | 37        | 21.70           | 22.27              | 22.80            | 23.7                |
| 15              | 64QAM      | 1       | 74        | 22.85           | 22.43              | 22.62            |                     |
| 15              | 64QAM      | 36      | 0         | 20.76           | 21.71              | 21.42            |                     |
| 15              | 64QAM      | 36      | 20        | 20.88           | 21.68              | 21.75            | 22.7                |
| 15              | 64QAM      | 36      | 39        | 21.38           | 21.40              | 21.71            |                     |
| 15              | 64QAM      | 75      | 0         | 21.18           | 21.65              | 21.52            |                     |
| Channel         |            |         |           | 133172          | 133272             | 133422           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 668             | 678                | 693              |                     |
| 10              | QPSK       | 1       | 0         | 24.57           | 24.56              | 24.57            | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.53           | 24.56              | 24.57            |                     |
| 10              | QPSK       | 1       | 49        | 24.62           | 24.64              | 24.53            |                     |
| 10              | QPSK       | 25      | 0         | 23.73           | 23.62              | 23.60            | 24.7                |
| 10              | QPSK       | 25      | 12        | 23.69           | 23.75              | 23.62            |                     |
| 10              | QPSK       | 25      | 25        | 23.63           | 23.70              | 23.65            |                     |
| 10              | QPSK       | 50      | 0         | 23.73           | 23.74              | 23.61            | 24.7                |
| 10              | 16QAM      | 1       | 0         | 24.03           | 23.97              | 23.96            |                     |
| 10              | 16QAM      | 1       | 25        | 23.89           | 23.97              | 23.94            |                     |
| 10              | 16QAM      | 1       | 49        | 23.96           | 24.00              | 23.86            | 23.7                |
| 10              | 16QAM      | 25      | 0         | 22.59           | 22.65              | 22.60            |                     |
| 10              | 16QAM      | 25      | 12        | 22.52           | 22.74              | 22.63            |                     |
| 10              | 16QAM      | 25      | 25        | 22.54           | 22.71              | 22.65            | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.73           | 22.73              | 22.59            |                     |
| 10              | 64QAM      | 1       | 0         | 21.71           | 22.19              | 22.73            |                     |
| 10              | 64QAM      | 1       | 25        | 21.61           | 22.89              | 22.80            | 23.7                |
| 10              | 64QAM      | 1       | 49        | 22.02           | 22.82              | 22.25            |                     |
| 10              | 64QAM      | 25      | 0         | 20.70           | 21.54              | 21.83            |                     |
| 10              | 64QAM      | 25      | 12        | 20.65           | 21.76              | 21.61            | 22.7                |
| 10              | 64QAM      | 25      | 25        | 20.65           | 21.68              | 21.37            |                     |
| 10              | 64QAM      | 50      | 0         | 20.70           | 21.56              | 21.58            |                     |
| Channel         |            |         |           | 133147          | 133247             | 133447           | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 665.5           | 675.5              | 695.5            |                     |
| 5               | QPSK       | 1       | 0         | 24.33           | 24.63              | 24.62            | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.62           | 24.59              | 24.59            |                     |
| 5               | QPSK       | 1       | 24        | 24.67           | 24.62              | 24.51            |                     |
| 5               | QPSK       | 12      | 0         | 23.49           | 23.69              | 23.64            | 24.7                |
| 5               | QPSK       | 12      | 7         | 23.63           | 23.70              | 23.68            |                     |
| 5               | QPSK       | 12      | 13        | 23.60           | 23.68              | 23.61            |                     |
| 5               | QPSK       | 25      | 0         | 23.60           | 23.69              | 23.59            | 24.7                |
| 5               | 16QAM      | 1       | 0         | 23.66           | 23.99              | 23.92            |                     |
| 5               | 16QAM      | 1       | 12        | 23.86           | 23.94              | 23.87            |                     |
| 5               | 16QAM      | 1       | 24        | 23.80           | 23.94              | 23.83            | 23.7                |
| 5               | 16QAM      | 12      | 0         | 22.42           | 22.74              | 22.69            |                     |
| 5               | 16QAM      | 12      | 7         | 22.60           | 22.75              | 22.70            |                     |
| 5               | 16QAM      | 12      | 13        | 22.61           | 22.70              | 22.63            | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.52           | 22.72              | 22.63            |                     |
| 5               | 64QAM      | 1       | 0         | 21.83           | 21.95              | 22.65            |                     |
| 5               | 64QAM      | 1       | 12        | 21.71           | 22.83              | 22.44            | 23.7                |
| 5               | 64QAM      | 1       | 24        | 21.72           | 22.88              | 21.98            |                     |
| 5               | 64QAM      | 12      | 0         | 20.70           | 21.46              | 21.42            |                     |
| 5               | 64QAM      | 12      | 7         | 20.79           | 21.76              | 21.57            | 22.7                |
| 5               | 64QAM      | 12      | 13        | 20.60           | 21.72              | 21.36            |                     |
| 5               | 64QAM      | 25      | 0         | 20.77           | 21.50              | 21.21            |                     |





| Band 38         |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ann 2           |            |         |           |                             |                                |                              |                           |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37800                       | 38000                          | 38150                        |                           |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                           |
| 20              | QPSK       | 1       | 0         | 24.95                       | 24.88                          | 24.81                        | 25.7                      |
| 20              | QPSK       | 1       | 49        | 24.94                       | 24.82                          | 24.75                        |                           |
| 20              | QPSK       | 1       | 99        | 24.93                       | 24.78                          | 24.75                        |                           |
| 20              | QPSK       | 50      | 0         | 24.19                       | 24.05                          | 23.86                        |                           |
| 20              | QPSK       | 50      | 24        | 24.17                       | 24.04                          | 24.00                        |                           |
| 20              | QPSK       | 50      | 50        | 24.03                       | 24.05                          | 23.91                        | 24.7                      |
| 20              | QPSK       | 100     | 0         | 24.11                       | 23.94                          | 23.93                        |                           |
| 20              | 16QAM      | 1       | 0         | 24.07                       | 24.04                          | 23.89                        |                           |
| 20              | 16QAM      | 1       | 49        | 24.07                       | 23.85                          | 23.82                        | 24.7                      |
| 20              | 16QAM      | 1       | 99        | 23.95                       | 23.97                          | 23.90                        |                           |
| 20              | 16QAM      | 50      | 0         | 23.16                       | 23.06                          | 22.97                        |                           |
| 20              | 16QAM      | 50      | 24        | 23.17                       | 23.00                          | 22.93                        | 23.7                      |
| 20              | 16QAM      | 50      | 50        | 23.08                       | 23.06                          | 22.99                        |                           |
| 20              | 16QAM      | 100     | 0         | 23.11                       | 23.01                          | 22.95                        |                           |
| 20              | 64QAM      | 1       | 0         | 22.81                       | 22.78                          | 22.67                        | 23.7                      |
| 20              | 64QAM      | 1       | 49        | 22.71                       | 22.71                          | 22.77                        |                           |
| 20              | 64QAM      | 1       | 99        | 22.68                       | 22.82                          | 22.78                        |                           |
| 20              | 64QAM      | 50      | 0         | 22.15                       | 22.02                          | 21.92                        | 22.7                      |
| 20              | 64QAM      | 50      | 24        | 22.14                       | 22.04                          | 22.04                        |                           |
| 20              | 64QAM      | 50      | 50        | 22.08                       | 22.09                          | 21.91                        |                           |
| 20              | 64QAM      | 100     | 0         | 22.08                       | 21.96                          | 22.05                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37805                       | 38000                          | 38175                        |                           |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                           |
| 15              | QPSK       | 1       | 0         | 24.92                       | 24.90                          | 24.81                        | 25.7                      |
| 15              | QPSK       | 1       | 37        | 24.91                       | 24.87                          | 24.80                        |                           |
| 15              | QPSK       | 1       | 74        | 24.90                       | 24.81                          | 24.78                        |                           |
| 15              | QPSK       | 36      | 0         | 24.18                       | 23.95                          | 23.89                        |                           |
| 15              | QPSK       | 36      | 20        | 24.14                       | 24.00                          | 23.91                        |                           |
| 15              | QPSK       | 36      | 39        | 24.07                       | 24.05                          | 23.90                        | 24.7                      |
| 15              | QPSK       | 75      | 0         | 24.06                       | 24.00                          | 23.82                        |                           |
| 15              | 16QAM      | 1       | 0         | 24.07                       | 24.03                          | 23.92                        |                           |
| 15              | 16QAM      | 1       | 37        | 23.92                       | 23.82                          | 23.86                        | 24.7                      |
| 15              | 16QAM      | 1       | 74        | 23.96                       | 23.92                          | 23.87                        |                           |
| 15              | 16QAM      | 36      | 0         | 23.07                       | 22.98                          | 22.86                        |                           |
| 15              | 16QAM      | 36      | 20        | 23.01                       | 22.94                          | 22.81                        | 23.7                      |
| 15              | 16QAM      | 36      | 39        | 23.04                       | 22.97                          | 22.92                        |                           |
| 15              | 16QAM      | 75      | 0         | 23.13                       | 22.97                          | 22.88                        |                           |
| 15              | 64QAM      | 1       | 0         | 22.75                       | 22.74                          | 22.75                        | 23.7                      |
| 15              | 64QAM      | 1       | 37        | 22.74                       | 22.82                          | 22.75                        |                           |
| 15              | 64QAM      | 1       | 74        | 22.70                       | 22.71                          | 22.72                        |                           |
| 15              | 64QAM      | 36      | 0         | 22.14                       | 22.02                          | 21.86                        | 22.7                      |
| 15              | 64QAM      | 36      | 20        | 22.08                       | 21.98                          | 21.93                        |                           |
| 15              | 64QAM      | 36      | 39        | 22.16                       | 22.03                          | 21.92                        |                           |
| 15              | 64QAM      | 75      | 0         | 22.16                       | 21.95                          | 21.86                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        |                           |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                           |
| 10              | QPSK       | 1       | 0         | 24.91                       | 24.78                          | 24.80                        | 25.7                      |
| 10              | QPSK       | 1       | 25        | 24.81                       | 24.78                          | 24.76                        |                           |
| 10              | QPSK       | 1       | 49        | 24.85                       | 24.71                          | 24.65                        |                           |
| 10              | QPSK       | 25      | 0         | 24.13                       | 23.95                          | 23.83                        |                           |
| 10              | QPSK       | 25      | 12        | 24.04                       | 23.87                          | 23.71                        |                           |
| 10              | QPSK       | 25      | 25        | 24.06                       | 23.98                          | 23.79                        | 24.7                      |
| 10              | QPSK       | 50      | 0         | 23.99                       | 23.96                          | 23.90                        |                           |
| 10              | 16QAM      | 1       | 0         | 24.02                       | 23.97                          | 23.87                        |                           |
| 10              | 16QAM      | 1       | 25        | 23.92                       | 23.83                          | 23.72                        | 24.7                      |
| 10              | 16QAM      | 1       | 49        | 23.88                       | 23.95                          | 23.91                        |                           |
| 10              | 16QAM      | 25      | 0         | 23.08                       | 22.91                          | 22.84                        |                           |
| 10              | 16QAM      | 25      | 12        | 23.04                       | 22.90                          | 22.89                        | 23.7                      |
| 10              | 16QAM      | 25      | 25        | 23.02                       | 22.93                          | 22.89                        |                           |
| 10              | 16QAM      | 50      | 0         | 23.11                       | 22.95                          | 22.77                        |                           |
| 10              | 64QAM      | 1       | 0         | 22.75                       | 22.69                          | 22.69                        | 23.7                      |
| 10              | 64QAM      | 1       | 25        | 22.70                       | 22.77                          | 22.72                        |                           |
| 10              | 64QAM      | 1       | 49        | 22.77                       | 22.78                          | 22.73                        |                           |
| 10              | 64QAM      | 25      | 0         | 22.11                       | 21.96                          | 21.85                        | 22.7                      |
| 10              | 64QAM      | 25      | 12        | 22.11                       | 21.94                          | 21.85                        |                           |
| 10              | 64QAM      | 25      | 25        | 22.11                       | 21.98                          | 21.80                        |                           |
| 10              | 64QAM      | 50      | 0         | 22.12                       | 21.92                          | 21.84                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        |                           |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                           |
| 5               | QPSK       | 1       | 0         | 24.90                       | 24.92                          | 24.77                        | 25.7                      |
| 5               | QPSK       | 1       | 12        | 24.93                       | 24.92                          | 24.78                        |                           |
| 5               | QPSK       | 1       | 24        | 24.91                       | 24.92                          | 24.76                        |                           |
| 5               | QPSK       | 12      | 0         | 24.16                       | 23.96                          | 23.94                        |                           |
| 5               | QPSK       | 12      | 7         | 24.13                       | 24.04                          | 23.94                        |                           |
| 5               | QPSK       | 12      | 13        | 24.09                       | 24.02                          | 23.96                        | 24.7                      |
| 5               | QPSK       | 25      | 0         | 24.17                       | 24.04                          | 23.92                        |                           |
| 5               | 16QAM      | 1       | 0         | 24.23                       | 24.02                          | 23.93                        |                           |
| 5               | 16QAM      | 1       | 12        | 24.22                       | 24.10                          | 23.95                        | 24.7                      |
| 5               | 16QAM      | 1       | 24        | 24.19                       | 24.14                          | 24.05                        |                           |
| 5               | 16QAM      | 12      | 0         | 23.14                       | 22.96                          | 22.88                        |                           |
| 5               | 16QAM      | 12      | 7         | 23.13                       | 23.13                          | 22.93                        | 23.7                      |
| 5               | 16QAM      | 12      | 13        | 23.12                       | 23.07                          | 22.90                        |                           |
| 5               | 16QAM      | 25      | 0         | 23.12                       | 22.99                          | 22.99                        |                           |
| 5               | 64QAM      | 1       | 0         | 22.92                       | 22.80                          | 22.74                        | 23.7                      |
| 5               | 64QAM      | 1       | 12        | 22.93                       | 22.87                          | 22.72                        |                           |
| 5               | 64QAM      | 1       | 24        | 22.92                       | 22.85                          | 22.78                        |                           |
| 5               | 64QAM      | 12      | 0         | 22.17                       | 22.04                          | 22.00                        | 22.7                      |
| 5               | 64QAM      | 12      | 7         | 22.21                       | 22.07                          | 22.02                        |                           |
| 5               | 64QAM      | 12      | 13        | 22.17                       | 22.10                          | 21.97                        |                           |
| 5               | 64QAM      | 25      | 0         | 22.24                       | 22.04                          | 22.00                        |                           |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ann 2           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 24.36               | 24.32                      | 24.31                  | 24.29                       | 24.12                | 25.7                |  |
| 20              | QPSK       | 1       | 49        | 24.33               | 24.31                      | 24.18                  | 24.57                       | 24.42                |                     |  |
| 20              | QPSK       | 1       | 99        | 24.33               | 24.30                      | 24.25                  | 24.12                       | 24.27                |                     |  |
| 20              | QPSK       | 50      | 0         | 23.53               | 23.47                      | 23.28                  | 23.52                       | 23.42                |                     |  |
| 20              | QPSK       | 50      | 24        | 23.54               | 23.48                      | 23.35                  | 23.57                       | 23.55                | 24.7                |  |
| 20              | QPSK       | 50      | 50        | 23.48               | 23.44                      | 23.34                  | 23.51                       | 23.50                |                     |  |
| 20              | QPSK       | 100     | 0         | 23.52               | 23.48                      | 23.36                  | 23.53                       | 23.44                |                     |  |
| 20              | 16QAM      | 1       | 0         | 23.52               | 23.45                      | 23.45                  | 23.44                       | 23.23                |                     |  |
| 20              | 16QAM      | 1       | 49        | 23.45               | 23.43                      | 23.32                  | 23.65                       | 23.52                | 24.7                |  |
| 20              | 16QAM      | 1       | 99        | 23.47               | 23.47                      | 23.35                  | 23.26                       | 23.35                |                     |  |
| 20              | 16QAM      | 50      | 0         | 22.56               | 22.48                      | 22.33                  | 22.56                       | 22.45                |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.56               | 22.51                      | 22.41                  | 22.59                       | 22.54                |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.52               | 22.46                      | 22.36                  | 22.52                       | 22.53                | 23.7                |  |
| 20              | 16QAM      | 100     | 0         | 22.54               | 22.50                      | 22.39                  | 22.49                       | 22.47                |                     |  |
| 20              | 64QAM      | 1       | 0         | 22.26               | 22.14                      | 22.13                  | 22.10                       | 21.89                |                     |  |
| 20              | 64QAM      | 1       | 49        | 22.19               | 22.22                      | 22.04                  | 22.46                       | 22.27                |                     |  |
| 20              | 64QAM      | 1       | 99        | 22.19               | 22.25                      | 22.08                  | 22.02                       | 22.03                | 23.7                |  |
| 20              | 64QAM      | 50      | 0         | 21.55               | 21.50                      | 21.35                  | 21.55                       | 21.44                |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.57               | 21.51                      | 21.40                  | 21.60                       | 21.56                |                     |  |
| 20              | 64QAM      | 50      | 50        | 21.52               | 21.48                      | 21.38                  | 21.50                       | 21.53                |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.56               | 21.50                      | 21.41                  | 21.51                       | 21.47                | 22.7                |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 24.36               | 24.32                      | 24.25                  | 24.42                       | 24.22                | 25.7                |  |
| 15              | QPSK       | 1       | 37        | 24.32               | 24.25                      | 24.18                  | 24.53                       | 24.39                |                     |  |
| 15              | QPSK       | 1       | 74        | 24.34               | 24.36                      | 24.27                  | 24.27                       | 24.35                |                     |  |
| 15              | QPSK       | 36      | 0         | 23.41               | 23.47                      | 23.31                  | 23.53                       | 23.47                |                     |  |
| 15              | QPSK       | 36      | 20        | 23.51               | 23.45                      | 23.37                  | 23.64                       | 23.51                | 24.7                |  |
| 15              | QPSK       | 36      | 39        | 23.46               | 23.44                      | 23.33                  | 23.53                       | 23.47                |                     |  |
| 15              | QPSK       | 75      | 0         | 23.50               | 23.46                      | 23.36                  | 23.58                       | 23.47                |                     |  |
| 15              | 16QAM      | 1       | 0         | 23.53               | 23.48                      | 23.43                  | 23.56                       | 23.36                |                     |  |
| 15              | 16QAM      | 1       | 37        | 23.41               | 23.39                      | 23.25                  | 23.65                       | 23.52                | 24.7                |  |
| 15              | 16QAM      | 1       | 74        | 23.49               | 23.57                      | 23.45                  | 23.46                       | 23.44                |                     |  |
| 15              | 16QAM      | 36      | 0         | 22.40               | 22.46                      | 22.27                  | 22.48                       | 22.40                |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.47               | 22.45                      | 22.33                  | 22.60                       | 22.48                |                     |  |
| 15              | 16QAM      | 36      | 39        | 22.45               | 22.42                      | 22.31                  | 22.53                       | 22.46                | 23.7                |  |
| 15              | 16QAM      | 75      | 0         | 22.52               | 22.48                      | 22.38                  | 22.59                       | 22.49                |                     |  |
| 15              | 64QAM      | 1       | 0         | 22.24               | 22.18                      | 22.07                  | 22.26                       | 22.05                |                     |  |
| 15              | 64QAM      | 1       | 37        | 22.22               | 22.20                      | 22.07                  | 22.42                       | 22.27                |                     |  |
| 15              | 64QAM      | 1       | 74        | 22.17               | 22.34                      | 22.15                  | 22.21                       | 22.16                | 23.7                |  |
| 15              | 64QAM      | 36      | 0         | 21.44               | 21.49                      | 21.34                  | 21.56                       | 21.47                |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.54               | 21.47                      | 21.38                  | 21.65                       | 21.57                |                     |  |
| 15              | 64QAM      | 36      | 39        | 21.48               | 21.48                      | 21.36                  | 21.57                       | 21.51                |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.54               | 21.48                      | 21.39                  | 21.61                       | 21.51                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 24.25               | 24.32                      | 24.17                  | 24.41                       | 24.12                | 25.7                |  |
| 10              | QPSK       | 1       | 25        | 24.24               | 24.24                      | 24.09                  | 24.48                       | 24.33                |                     |  |
| 10              | QPSK       | 1       | 49        | 24.29               | 24.33                      | 24.20                  | 24.21                       | 24.31                |                     |  |
| 10              | QPSK       | 25      | 0         | 23.38               | 23.37                      | 23.21                  | 23.49                       | 23.39                |                     |  |
| 10              | QPSK       | 25      | 12        | 23.42               | 23.35                      | 23.29                  | 23.57                       | 23.47                | 24.7                |  |
| 10              | QPSK       | 25      | 25        | 23.39               | 23.43                      | 23.27                  | 23.48                       | 23.39                |                     |  |
| 10              | QPSK       | 50      | 0         | 23.48               | 23.43                      | 23.35                  | 23.56                       | 23.41                |                     |  |
| 10              | 16QAM      | 1       | 0         | 23.45               | 23.42                      | 23.33                  | 23.56                       | 23.32                |                     |  |
| 10              | 16QAM      | 1       | 25        | 23.37               | 23.29                      | 23.23                  | 23.64                       | 23.48                | 24.7                |  |
| 10              | 16QAM      | 1       | 49        | 23.47               | 23.47                      | 23.43                  | 23.40                       | 23.41                |                     |  |
| 10              | 16QAM      | 25      | 0         | 22.35               | 22.49                      | 22.21                  | 22.47                       | 22.39                |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.45               | 22.37                      | 22.21                  | 22.52                       | 22.44                |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.39               | 22.40                      | 22.28                  | 22.48                       | 22.44                | 23.7                |  |
| 10              | 16QAM      | 50      | 0         | 22.46               | 22.44                      | 22.28                  | 22.57                       | 22.47                |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.18               | 22.09                      | 22.05                  | 22.19                       | 22.05                |                     |  |
| 10              | 64QAM      | 1       | 25        | 22.12               | 22.20                      | 22.03                  | 22.37                       | 22.24                |                     |  |
| 10              | 64QAM      | 1       | 49        | 22.06               | 22.30                      | 22.07                  | 22.17                       | 22.12                | 23.7                |  |
| 10              | 64QAM      | 25      | 0         | 21.37               | 21.47                      | 21.24                  | 21.55                       | 21.40                |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.47               | 21.38                      | 21.37                  | 21.63                       | 21.47                |                     |  |
| 10              | 64QAM      | 25      | 25        | 21.43               | 21.44                      | 21.26                  | 21.49                       | 21.46                |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.50               | 21.43                      | 21.35                  | 21.58                       | 21.51                | 22.7                |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 24.48               | 24.36                      | 24.27                  | 24.54                       | 24.46                | 25.7                |  |
| 5               | QPSK       | 1       | 12        | 24.46               | 24.39                      | 24.32                  | 24.56                       | 24.43                |                     |  |
| 5               | QPSK       | 1       | 24        | 24.39               | 24.38                      | 24.25                  | 24.52                       | 24.33                |                     |  |
| 5               | QPSK       | 12      | 0         | 23.57               | 23.52                      | 23.43                  | 23.64                       | 23.57                |                     |  |
| 5               | QPSK       | 12      | 7         | 23.57               | 23.52                      | 23.47                  | 23.67                       | 23.56                | 24.7                |  |
| 5               | QPSK       | 12      | 13        | 23.56               | 23.48                      | 23.44                  | 23.68                       | 23.51                |                     |  |
| 5               | QPSK       | 25      | 0         | 23.55               | 23.50                      | 23.42                  | 23.63                       | 23.53                |                     |  |
| 5               | 16QAM      | 1       | 0         | 23.60               | 23.53                      | 23.37                  | 23.66                       | 23.59                |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.61               | 23.60                      | 23.51                  | 23.73                       | 23.68                | 24.7                |  |
| 5               | 16QAM      | 1       | 24        | 23.61               | 23.55                      | 23.49                  | 23.68                       | 23.54                |                     |  |
| 5               | 16QAM      | 12      | 0         | 22.55               | 22.49                      | 22.38                  | 22.64                       | 22.52                |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.55               | 22.52                      | 22.43                  | 22.66                       | 22.57                |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.53               | 22.50                      | 22.40                  | 22.65                       | 22.52                | 23.7                |  |
| 5               | 16QAM      | 25      | 0         | 22.60               | 22.54                      | 22.45                  | 22.65                       | 22.58                |                     |  |
| 5               | 64QAM      | 1       | 0         | 22.35               | 22.35                      | 22.18                  | 22.41                       | 22.30                |                     |  |
| 5               | 64QAM      | 1       | 12        | 22.38               | 22.36                      | 22.20                  | 22.47                       | 22.28                |                     |  |
| 5               | 64QAM      | 1       | 24        | 22.38               | 22.36                      | 22.23                  | 22.46                       | 22.23                | 23.7                |  |
| 5               | 64QAM      | 12      | 0         | 21.61               | 21.53                      | 21.50                  | 21.67                       | 21.57                |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.63               | 21.58                      | 21.50                  | 21.70                       | 21.61                |                     |  |
| 5               | 64QAM      | 12      | 13        | 21.58               | 21.57                      | 21.46                  | 21.73                       | 21.64                |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.61               | 21.56                      | 21.46                  | 21.69                       | 21.60                | 22.7                |  |



| Band 41 HPUE    |            |         |           |                      |                             |                         |                              |                       |                     |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------------|-------------------------|------------------------------|-----------------------|---------------------|--|
| Ant 2           |            |         |           |                      |                             |                         |                              |                       |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Low Middle Ch. / Freq | Power Middle Ch. / Freq | Power High Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750                | 40185                       | 40620                   | 41055                        | 41490                 |                     |  |
| Frequency (MHz) |            |         |           | 2506                 | 2549.5                      | 2593                    | 2636.5                       | 2680                  |                     |  |
| 20              | QPSK       | 1       | 0         | 25.95                | 25.94                       | 26.04                   | 26.10                        | 25.81                 | 27.5                |  |
| 20              | QPSK       | 1       | 49        | 26.01                | 26.04                       | 26.01                   | 26.39                        | 26.18                 |                     |  |
| 20              | QPSK       | 1       | 99        | 25.92                | 25.97                       | 25.99                   | 25.89                        | 25.96                 |                     |  |
| 20              | QPSK       | 50      | 0         | 25.19                | 25.21                       | 25.15                   | 25.40                        | 25.22                 | 26.5                |  |
| 20              | QPSK       | 50      | 24        | 25.21                | 25.24                       | 25.21                   | 25.45                        | 25.34                 |                     |  |
| 20              | QPSK       | 50      | 50        | 25.18                | 25.21                       | 25.19                   | 25.34                        | 25.29                 |                     |  |
| 20              | QPSK       | 100     | 0         | 25.22                | 25.22                       | 25.20                   | 25.35                        | 25.24                 | 26.5                |  |
| 20              | 16QAM      | 1       | 0         | 25.28                | 25.37                       | 25.40                   | 25.48                        | 25.12                 |                     |  |
| 20              | 16QAM      | 1       | 49        | 25.27                | 25.32                       | 25.26                   | 25.69                        | 25.49                 |                     |  |
| 20              | 16QAM      | 1       | 99        | 25.31                | 25.32                       | 25.32                   | 25.23                        | 25.28                 | 25.5                |  |
| 20              | 16QAM      | 50      | 0         | 24.24                | 24.26                       | 24.18                   | 24.43                        | 24.24                 |                     |  |
| 20              | 16QAM      | 50      | 24        | 24.24                | 24.29                       | 24.22                   | 24.50                        | 24.36                 |                     |  |
| 20              | 16QAM      | 50      | 50        | 24.21                | 24.26                       | 24.21                   | 24.40                        | 24.30                 | 25.5                |  |
| 20              | 16QAM      | 100     | 0         | 24.22                | 24.25                       | 24.22                   | 24.38                        | 24.27                 |                     |  |
| 20              | 64QAM      | 1       | 0         | 24.15                | 24.12                       | 24.20                   | 24.26                        | 24.00                 |                     |  |
| 20              | 64QAM      | 1       | 49        | 24.10                | 24.16                       | 24.13                   | 24.58                        | 24.38                 | 25.5                |  |
| 20              | 64QAM      | 1       | 99        | 24.13                | 24.20                       | 24.17                   | 24.13                        | 24.18                 |                     |  |
| 20              | 64QAM      | 50      | 0         | 23.26                | 23.27                       | 23.18                   | 23.45                        | 23.24                 |                     |  |
| 20              | 64QAM      | 50      | 24        | 23.27                | 23.28                       | 23.27                   | 23.49                        | 23.37                 | 24.5                |  |
| 20              | 64QAM      | 50      | 50        | 23.21                | 23.27                       | 23.23                   | 23.39                        | 23.32                 |                     |  |
| 20              | 64QAM      | 100     | 0         | 23.26                | 23.26                       | 23.23                   | 23.38                        | 23.25                 |                     |  |
| Channel         |            |         |           | 39725                | 40173                       | 40620                   | 41068                        | 41515                 | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5               | 2546.3                      | 2593                    | 2637.8                       | 2682.5                |                     |  |
| 15              | QPSK       | 1       | 0         | 25.97                | 26.01                       | 25.98                   | 26.26                        | 25.97                 | 27.5                |  |
| 15              | QPSK       | 1       | 37        | 26.01                | 25.97                       | 25.98                   | 26.35                        | 26.18                 |                     |  |
| 15              | QPSK       | 1       | 74        | 25.97                | 26.08                       | 26.03                   | 26.12                        | 26.10                 |                     |  |
| 15              | QPSK       | 36      | 0         | 25.05                | 25.18                       | 25.09                   | 25.40                        | 25.23                 | 26.5                |  |
| 15              | QPSK       | 36      | 20        | 25.13                | 25.17                       | 25.13                   | 25.46                        | 25.29                 |                     |  |
| 15              | QPSK       | 36      | 39        | 25.12                | 25.17                       | 25.10                   | 25.36                        | 25.26                 |                     |  |
| 15              | QPSK       | 75      | 0         | 25.16                | 25.17                       | 25.14                   | 25.42                        | 25.25                 | 26.5                |  |
| 15              | 16QAM      | 1       | 0         | 25.29                | 25.27                       | 25.23                   | 25.56                        | 25.26                 |                     |  |
| 15              | 16QAM      | 1       | 37        | 25.21                | 25.21                       | 25.19                   | 25.63                        | 25.44                 |                     |  |
| 15              | 16QAM      | 1       | 74        | 25.25                | 25.34                       | 25.29                   | 25.45                        | 25.32                 | 25.5                |  |
| 15              | 16QAM      | 36      | 0         | 24.06                | 24.17                       | 24.05                   | 24.35                        | 24.20                 |                     |  |
| 15              | 16QAM      | 36      | 20        | 24.13                | 24.15                       | 24.11                   | 24.47                        | 24.26                 |                     |  |
| 15              | 16QAM      | 36      | 39        | 24.09                | 24.14                       | 24.09                   | 24.37                        | 24.23                 | 25.5                |  |
| 15              | 16QAM      | 75      | 0         | 24.15                | 24.19                       | 24.15                   | 24.45                        | 24.26                 |                     |  |
| 15              | 64QAM      | 1       | 0         | 24.10                | 24.09                       | 24.04                   | 24.37                        | 24.09                 |                     |  |
| 15              | 64QAM      | 1       | 37        | 24.06                | 24.10                       | 24.06                   | 24.51                        | 24.29                 | 25.5                |  |
| 15              | 64QAM      | 1       | 74        | 24.09                | 24.24                       | 24.14                   | 24.31                        | 24.21                 |                     |  |
| 15              | 64QAM      | 36      | 0         | 23.08                | 23.22                       | 23.10                   | 23.40                        | 23.26                 |                     |  |
| 15              | 64QAM      | 36      | 20        | 23.15                | 23.20                       | 23.15                   | 23.51                        | 23.34                 | 24.5                |  |
| 15              | 64QAM      | 36      | 39        | 23.13                | 23.18                       | 23.14                   | 23.37                        | 23.27                 |                     |  |
| 15              | 64QAM      | 75      | 0         | 23.16                | 23.19                       | 23.16                   | 23.45                        | 23.27                 |                     |  |
| Channel         |            |         |           | 39700                | 40160                       | 40620                   | 41080                        | 41540                 | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                 | 2547                        | 2593                    | 2639                         | 2685                  |                     |  |
| 10              | QPSK       | 1       | 0         | 25.92                | 25.92                       | 25.81                   | 26.20                        | 26.11                 | 27.5                |  |
| 10              | QPSK       | 1       | 25        | 25.92                | 25.94                       | 26.00                   | 26.30                        | 26.13                 |                     |  |
| 10              | QPSK       | 1       | 49        | 25.97                | 25.96                       | 25.90                   | 26.26                        | 26.00                 |                     |  |
| 10              | QPSK       | 25      | 0         | 25.10                | 25.11                       | 25.09                   | 25.41                        | 25.24                 | 26.5                |  |
| 10              | QPSK       | 25      | 12        | 25.16                | 25.13                       | 25.12                   | 25.41                        | 25.26                 |                     |  |
| 10              | QPSK       | 25      | 25        | 25.10                | 25.19                       | 25.11                   | 25.49                        | 25.22                 |                     |  |
| 10              | QPSK       | 50      | 0         | 25.15                | 25.18                       | 25.16                   | 25.45                        | 25.26                 | 26.5                |  |
| 10              | 16QAM      | 1       | 0         | 25.29                | 25.26                       | 25.20                   | 25.53                        | 25.38                 |                     |  |
| 10              | 16QAM      | 1       | 25        | 25.26                | 25.28                       | 25.35                   | 25.67                        | 25.40                 |                     |  |
| 10              | 16QAM      | 1       | 49        | 25.32                | 25.29                       | 25.25                   | 25.57                        | 25.40                 | 25.5                |  |
| 10              | 16QAM      | 25      | 0         | 24.20                | 24.10                       | 24.13                   | 24.46                        | 24.35                 |                     |  |
| 10              | 16QAM      | 25      | 12        | 24.25                | 24.19                       | 24.20                   | 24.45                        | 24.28                 |                     |  |
| 10              | 16QAM      | 25      | 25        | 24.15                | 24.19                       | 24.10                   | 24.47                        | 24.21                 | 24.5                |  |
| 10              | 16QAM      | 50      | 0         | 24.16                | 24.19                       | 24.12                   | 24.46                        | 24.29                 |                     |  |
| 10              | 64QAM      | 1       | 0         | 24.20                | 24.16                       | 24.07                   | 24.48                        | 24.27                 |                     |  |
| 10              | 64QAM      | 1       | 25        | 24.13                | 24.17                       | 24.17                   | 24.50                        | 24.33                 | 25.5                |  |
| 10              | 64QAM      | 1       | 49        | 24.14                | 24.18                       | 24.21                   | 24.47                        | 24.31                 |                     |  |
| 10              | 64QAM      | 25      | 0         | 23.21                | 23.18                       | 23.18                   | 23.44                        | 23.25                 |                     |  |
| 10              | 64QAM      | 25      | 12        | 23.24                | 23.32                       | 23.24                   | 23.48                        | 23.36                 | 24.5                |  |
| 10              | 64QAM      | 25      | 25        | 23.13                | 23.16                       | 23.20                   | 23.52                        | 23.21                 |                     |  |
| 10              | 64QAM      | 50      | 0         | 23.18                | 23.23                       | 23.19                   | 23.44                        | 23.27                 |                     |  |
| Channel         |            |         |           | 39675                | 40148                       | 40620                   | 41093                        | 41565                 | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2495.5               | 2545.8                      | 2593                    | 2640.30                      | 2687.5                |                     |  |
| 5               | QPSK       | 1       | 0         | 26.01                | 26.01                       | 25.91                   | 26.29                        | 26.11                 | 27.5                |  |
| 5               | QPSK       | 1       | 12        | 26.02                | 26.03                       | 26.02                   | 26.38                        | 26.14                 |                     |  |
| 5               | QPSK       | 1       | 24        | 25.99                | 26.02                       | 25.96                   | 26.31                        | 26.04                 |                     |  |
| 5               | QPSK       | 12      | 0         | 25.16                | 25.19                       | 25.16                   | 25.44                        | 25.31                 | 26.5                |  |
| 5               | QPSK       | 12      | 7         | 25.19                | 25.23                       | 25.19                   | 25.47                        | 25.27                 |                     |  |
| 5               | QPSK       | 12      | 13        | 25.18                | 25.20                       | 25.16                   | 25.52                        | 25.29                 |                     |  |
| 5               | QPSK       | 25      | 0         | 25.16                | 25.18                       | 25.18                   | 25.46                        | 25.27                 | 26.5                |  |
| 5               | 16QAM      | 1       | 0         | 25.38                | 25.36                       | 25.30                   | 25.61                        | 25.46                 |                     |  |
| 5               | 16QAM      | 1       | 12        | 25.37                | 25.34                       | 25.37                   | 25.68                        | 25.45                 |                     |  |
| 5               | 16QAM      | 1       | 24        | 25.36                | 25.39                       | 25.35                   | 25.65                        | 25.43                 | 25.5                |  |
| 5               | 16QAM      | 12      | 0         | 24.20                | 24.20                       | 24.21                   | 24.51                        | 24.36                 |                     |  |
| 5               | 16QAM      | 12      | 7         | 24.27                | 24.24                       | 24.24                   | 24.53                        | 24.32                 |                     |  |
| 5               | 16QAM      | 12      | 13        | 24.20                | 24.21                       | 24.18                   | 24.49                        | 24.28                 | 25.5                |  |
| 5               | 16QAM      | 25      | 0         | 24.18                | 24.26                       | 24.20                   | 24.48                        | 24.34                 |                     |  |
| 5               | 64QAM      | 1       | 0         | 24.26                | 24.24                       | 24.15                   | 24.51                        | 24.37                 |                     |  |
| 5               | 64QAM      | 1       | 12        | 24.20                | 24.24                       | 24.23                   | 24.59                        | 24.36                 | 25.5                |  |
| 5               | 64QAM      | 1       | 24        | 24.24                | 24.23                       | 24.21                   | 24.54                        | 24.31                 |                     |  |
| 5               | 64QAM      | 12      | 0         | 23.23                | 23.28                       | 23.21                   | 23.50                        | 23.35                 |                     |  |
| 5               | 64QAM      | 12      | 7         | 23.25                | 23.32                       | 23.27                   | 23.50                        | 23.37                 | 24.5                |  |
| 5               | 64QAM      | 12      | 13        | 23.22                | 23.26                       | 23.23                   | 23.54                        | 23.31                 |                     |  |
| 5               | 64QAM      | 25      | 0         | 23.20                | 23.29                       | 23.24                   | 23.53                        | 23.37                 |                     |  |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|--|
| Ant 7           |            |         |           |                       |                              |                               |                        |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 24.21                 | 24.24                        | 24.10                         | 24.13                  | 25.2                |  |  |
| 20              | QPSK       | 1       | 49        | 24.02                 | 24.06                        | 23.89                         | 23.89                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 23.99                 | 23.98                        | 23.84                         | 23.82                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 23.24                 | 23.27                        | 23.16                         | 23.16                  |                     |  |  |
| 20              | QPSK       | 50      | 24        | 23.21                 | 23.13                        | 23.07                         | 23.07                  | 24.2                |  |  |
| 20              | QPSK       | 50      | 50        | 23.05                 | 23.08                        | 22.94                         | 22.94                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 23.15                 | 23.18                        | 23.10                         | 23.10                  |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 23.33                 | 23.38                        | 23.25                         | 23.28                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 23.12                 | 23.15                        | 22.99                         | 22.98                  | 24.2                |  |  |
| 20              | 16QAM      | 1       | 99        | 23.10                 | 23.09                        | 22.96                         | 22.96                  |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 22.27                 | 22.28                        | 22.19                         | 22.20                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.23                 | 22.17                        | 22.13                         | 22.14                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 22.08                 | 22.11                        | 21.97                         | 21.97                  | 23.2                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.21                 | 22.14                        | 22.12                         | 22.10                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 22.04                 | 22.12                        | 22.00                         | 22.00                  |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 21.86                 | 21.87                        | 21.78                         | 21.75                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 21.83                 | 21.79                        | 21.65                         | 21.68                  | 22.2                |  |  |
| 20              | 64QAM      | 50      | 0         | 21.27                 | 21.30                        | 21.19                         | 21.19                  |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 21.23                 | 21.17                        | 21.15                         | 21.14                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 21.09                 | 21.11                        | 20.98                         | 20.98                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.21                 | 21.17                        | 21.12                         | 21.12                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 24.20                 | 24.16                        | 24.05                         | 24.07                  | 25.2                |  |  |
| 15              | QPSK       | 1       | 37        | 23.95                 | 24.02                        | 23.86                         | 23.84                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 23.98                 | 23.92                        | 23.78                         | 23.81                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 23.23                 | 23.25                        | 23.06                         | 23.10                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 23.14                 | 23.07                        | 23.00                         | 23.04                  | 24.2                |  |  |
| 15              | QPSK       | 36      | 39        | 23.03                 | 23.04                        | 22.91                         | 22.90                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.09                 | 23.07                        | 23.07                         | 23.04                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 23.29                 | 23.28                        | 23.18                         | 23.24                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 23.08                 | 23.14                        | 22.97                         | 22.92                  | 24.2                |  |  |
| 15              | 16QAM      | 1       | 74        | 23.06                 | 23.00                        | 22.89                         | 22.91                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 22.18                 | 22.23                        | 22.13                         | 22.13                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.18                 | 22.10                        | 22.13                         | 22.13                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 22.04                 | 22.01                        | 21.92                         | 21.91                  | 23.2                |  |  |
| 15              | 16QAM      | 75      | 0         | 22.18                 | 22.14                        | 22.05                         | 22.03                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 21.97                 | 22.09                        | 21.93                         | 21.97                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 21.82                 | 21.86                        | 21.76                         | 21.70                  |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 21.80                 | 21.77                        | 21.56                         | 21.67                  | 22.2                |  |  |
| 15              | 64QAM      | 36      | 0         | 21.20                 | 21.30                        | 21.10                         | 21.13                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 21.21                 | 21.09                        | 21.08                         | 21.05                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 21.05                 | 21.09                        | 20.94                         | 20.88                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 21.21                 | 21.10                        | 21.09                         | 21.11                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 24.11                 | 24.17                        | 24.02                         | 24.12                  | 25.2                |  |  |
| 10              | QPSK       | 1       | 25        | 24.02                 | 23.99                        | 23.87                         | 23.79                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 23.94                 | 23.90                        | 23.75                         | 23.72                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 23.14                 | 23.20                        | 23.09                         | 23.13                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 23.11                 | 23.06                        | 23.04                         | 22.97                  | 24.2                |  |  |
| 10              | QPSK       | 25      | 25        | 22.97                 | 23.03                        | 22.86                         | 22.85                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 23.17                 | 23.05                        | 23.03                         | 23.05                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 23.27                 | 23.29                        | 23.17                         | 23.28                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 23.06                 | 23.11                        | 22.97                         | 22.90                  | 24.2                |  |  |
| 10              | 16QAM      | 1       | 49        | 23.00                 | 23.01                        | 22.94                         | 22.86                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.21                 | 22.24                        | 22.15                         | 22.11                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.18                 | 22.17                        | 22.10                         | 22.14                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 22.08                 | 22.09                        | 21.88                         | 21.88                  | 23.2                |  |  |
| 10              | 16QAM      | 50      | 0         | 22.12                 | 22.08                        | 22.11                         | 22.00                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 22.02                 | 22.07                        | 21.95                         | 21.90                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.86                 | 21.79                        | 21.77                         | 21.71                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 21.80                 | 21.70                        | 21.57                         | 21.55                  | 22.2                |  |  |
| 10              | 64QAM      | 25      | 0         | 21.18                 | 21.26                        | 21.15                         | 21.10                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 21.23                 | 21.12                        | 21.12                         | 21.08                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 21.06                 | 21.01                        | 20.98                         | 20.94                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.13                 | 21.09                        | 21.09                         | 21.05                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.12                 | 24.19                        | 24.10                         | 24.10                  | 25.2                |  |  |
| 5               | QPSK       | 1       | 12        | 23.99                 | 23.99                        | 23.86                         | 23.79                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 23.99                 | 23.96                        | 23.80                         | 23.80                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.17                 | 23.22                        | 23.09                         | 23.09                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 23.11                 | 23.10                        | 23.04                         | 23.00                  | 24.2                |  |  |
| 5               | QPSK       | 12      | 13        | 22.95                 | 23.05                        | 22.92                         | 22.87                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.09                 | 23.04                        | 23.02                         | 23.00                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 23.32                 | 23.30                        | 23.19                         | 23.18                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.04                 | 23.13                        | 22.97                         | 22.93                  | 24.2                |  |  |
| 5               | 16QAM      | 1       | 24        | 23.10                 | 23.07                        | 22.94                         | 22.87                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.25                 | 22.21                        | 22.09                         | 22.20                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.16                 | 22.09                        | 22.03                         | 22.12                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.01                 | 22.11                        | 21.96                         | 21.88                  | 23.2                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.15                 | 22.10                        | 22.04                         | 22.10                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.96                 | 22.10                        | 21.91                         | 21.90                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.86                 | 21.85                        | 21.75                         | 21.67                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.77                 | 21.72                        | 21.57                         | 21.64                  | 22.2                |  |  |
| 5               | 64QAM      | 12      | 0         | 21.19                 | 21.23                        | 21.19                         | 21.15                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.15                 | 21.17                        | 21.11                         | 21.07                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.06                 | 21.11                        | 20.89                         | 20.97                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.16                 | 21.09                        | 21.02                         | 21.02                  | Tune-up limit (dBm) |  |  |

| Band 38         |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| Ann 0           |            |         |           |                     |                        |                      |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 37850               | 38000                  | 38150                |                     |
| Frequency (MHz) |            |         |           | 2580                | 2595                   | 2610                 |                     |
| 20              | QPSK       | 1       | 0         | 24.16               | 24.06                  | 24.03                | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.08               | 24.02                  | 23.96                |                     |
| 20              | QPSK       | 1       | 99        | 24.06               | 23.99                  | 23.92                |                     |
| 20              | QPSK       | 50      | 0         | 23.25               | 23.14                  | 23.06                |                     |
| 20              | QPSK       | 50      | 24        | 23.24               | 23.12                  | 23.11                | 24.7                |
| 20              | QPSK       | 50      | 50        | 23.20               | 23.14                  | 23.07                |                     |
| 20              | QPSK       | 100     | 0         | 23.23               | 23.10                  | 23.11                |                     |
| 20              | 16QAM      | 1       | 0         | 23.23               | 23.18                  | 23.08                |                     |
| 20              | 16QAM      | 1       | 49        | 23.16               | 23.12                  | 23.03                | 24.7                |
| 20              | 16QAM      | 1       | 99        | 23.14               | 23.12                  | 23.01                |                     |
| 20              | 16QAM      | 50      | 0         | 22.29               | 22.16                  | 22.07                |                     |
| 20              | 16QAM      | 50      | 24        | 22.25               | 22.14                  | 22.13                |                     |
| 20              | 16QAM      | 50      | 50        | 22.24               | 22.17                  | 22.09                | 23.7                |
| 20              | 16QAM      | 100     | 0         | 22.25               | 22.13                  | 22.11                |                     |
| 20              | 64QAM      | 1       | 0         | 21.95               | 21.88                  | 21.77                |                     |
| 20              | 64QAM      | 1       | 49        | 21.90               | 21.84                  | 21.75                |                     |
| 20              | 64QAM      | 1       | 99        | 21.88               | 21.83                  | 21.72                | 22.7                |
| 20              | 64QAM      | 50      | 0         | 21.30               | 21.18                  | 21.09                |                     |
| 20              | 64QAM      | 50      | 24        | 21.27               | 21.13                  | 21.14                |                     |
| 20              | 64QAM      | 50      | 50        | 21.26               | 21.19                  | 21.10                |                     |
| 20              | 64QAM      | 100     | 0         | 21.26               | 21.13                  | 21.12                |                     |
| Channel         |            |         |           | 37825               | 38000                  | 38175                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2577.5              | 2595                   | 2612.5               |                     |
| 15              | QPSK       | 1       | 0         | 24.09               | 24.04                  | 23.96                | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.03               | 24.01                  | 23.91                |                     |
| 15              | QPSK       | 1       | 74        | 24.07               | 24.02                  | 23.92                |                     |
| 15              | QPSK       | 36      | 0         | 23.25               | 23.12                  | 23.03                |                     |
| 15              | QPSK       | 36      | 20        | 23.24               | 23.08                  | 23.01                | 24.7                |
| 15              | QPSK       | 36      | 39        | 23.19               | 23.15                  | 23.04                |                     |
| 15              | QPSK       | 75      | 0         | 23.21               | 23.08                  | 23.02                |                     |
| 15              | 16QAM      | 1       | 0         | 23.23               | 23.17                  | 23.10                |                     |
| 15              | 16QAM      | 1       | 37        | 23.06               | 23.03                  | 22.98                | 24.7                |
| 15              | 16QAM      | 1       | 74        | 23.19               | 23.14                  | 23.06                |                     |
| 15              | 16QAM      | 36      | 0         | 22.22               | 22.10                  | 22.02                |                     |
| 15              | 16QAM      | 36      | 20        | 22.20               | 22.05                  | 21.96                |                     |
| 15              | 16QAM      | 36      | 39        | 22.16               | 22.11                  | 22.02                | 23.7                |
| 15              | 16QAM      | 75      | 0         | 22.25               | 22.11                  | 22.03                |                     |
| 15              | 64QAM      | 1       | 0         | 21.88               | 21.84                  | 21.73                |                     |
| 15              | 64QAM      | 1       | 37        | 21.94               | 21.84                  | 21.77                |                     |
| 15              | 64QAM      | 1       | 74        | 21.89               | 21.83                  | 21.73                | 22.7                |
| 15              | 64QAM      | 36      | 0         | 21.26               | 21.14                  | 21.07                |                     |
| 15              | 64QAM      | 36      | 20        | 21.24               | 21.10                  | 21.00                |                     |
| 15              | 64QAM      | 36      | 39        | 21.25               | 21.17                  | 21.06                |                     |
| 15              | 64QAM      | 75      | 0         | 21.25               | 21.12                  | 21.03                |                     |
| Channel         |            |         |           | 37800               | 38000                  | 38200                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2575                | 2595                   | 2615                 |                     |
| 10              | QPSK       | 1       | 0         | 24.09               | 23.99                  | 23.91                | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.00               | 23.96                  | 23.91                |                     |
| 10              | QPSK       | 1       | 49        | 24.03               | 24.01                  | 23.91                |                     |
| 10              | QPSK       | 25      | 0         | 23.15               | 23.12                  | 23.01                |                     |
| 10              | QPSK       | 25      | 12        | 23.19               | 23.07                  | 22.99                | 24.7                |
| 10              | QPSK       | 25      | 25        | 23.10               | 23.13                  | 22.99                |                     |
| 10              | QPSK       | 50      | 0         | 23.11               | 23.03                  | 22.95                |                     |
| 10              | 16QAM      | 1       | 0         | 23.13               | 23.08                  | 23.03                |                     |
| 10              | 16QAM      | 1       | 25        | 23.04               | 22.97                  | 22.94                | 24.7                |
| 10              | 16QAM      | 1       | 49        | 23.10               | 23.08                  | 23.02                |                     |
| 10              | 16QAM      | 25      | 0         | 22.17               | 22.00                  | 21.97                |                     |
| 10              | 16QAM      | 25      | 12        | 22.13               | 21.96                  | 21.91                |                     |
| 10              | 16QAM      | 25      | 25        | 22.10               | 22.06                  | 22.00                | 23.7                |
| 10              | 16QAM      | 50      | 0         | 22.20               | 22.02                  | 21.99                |                     |
| 10              | 64QAM      | 1       | 0         | 21.86               | 21.76                  | 21.70                |                     |
| 10              | 64QAM      | 1       | 25        | 21.92               | 21.79                  | 21.70                |                     |
| 10              | 64QAM      | 1       | 49        | 21.83               | 21.75                  | 21.70                | 22.7                |
| 10              | 64QAM      | 25      | 0         | 21.19               | 21.12                  | 21.05                |                     |
| 10              | 64QAM      | 25      | 12        | 21.18               | 21.08                  | 21.00                |                     |
| 10              | 64QAM      | 25      | 25        | 21.19               | 21.11                  | 21.01                |                     |
| 10              | 64QAM      | 50      | 0         | 21.17               | 21.04                  | 21.01                |                     |
| Channel         |            |         |           | 37775               | 38000                  | 38225                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2572.5              | 2595                   | 2617.5               |                     |
| 5               | QPSK       | 1       | 0         | 24.15               | 24.05                  | 23.94                | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.09               | 24.02                  | 23.94                |                     |
| 5               | QPSK       | 1       | 24        | 24.10               | 23.99                  | 23.95                |                     |
| 5               | QPSK       | 12      | 0         | 23.21               | 23.11                  | 23.08                |                     |
| 5               | QPSK       | 12      | 7         | 23.26               | 23.20                  | 23.06                | 24.7                |
| 5               | QPSK       | 12      | 13        | 23.20               | 23.18                  | 23.05                |                     |
| 5               | QPSK       | 25      | 0         | 23.25               | 23.09                  | 23.06                |                     |
| 5               | 16QAM      | 1       | 0         | 23.28               | 23.17                  | 23.11                |                     |
| 5               | 16QAM      | 1       | 12        | 23.28               | 23.26                  | 23.18                | 24.7                |
| 5               | 16QAM      | 1       | 24        | 23.28               | 23.22                  | 23.12                |                     |
| 5               | 16QAM      | 12      | 0         | 22.21               | 22.09                  | 22.05                |                     |
| 5               | 16QAM      | 12      | 7         | 22.23               | 22.13                  | 22.06                |                     |
| 5               | 16QAM      | 12      | 13        | 22.18               | 22.13                  | 22.02                | 23.7                |
| 5               | 16QAM      | 25      | 0         | 22.24               | 22.14                  | 22.10                |                     |
| 5               | 64QAM      | 1       | 0         | 21.80               | 21.74                  | 21.70                |                     |
| 5               | 64QAM      | 1       | 12        | 21.90               | 21.84                  | 21.76                |                     |
| 5               | 64QAM      | 1       | 24        | 21.81               | 21.82                  | 21.70                | 22.7                |
| 5               | 64QAM      | 12      | 0         | 21.27               | 21.07                  | 20.97                |                     |
| 5               | 64QAM      | 12      | 7         | 21.20               | 21.02                  | 20.91                |                     |
| 5               | 64QAM      | 12      | 13        | 21.19               | 21.14                  | 21.05                |                     |
| 5               | 64QAM      | 25      | 0         | 21.19               | 21.02                  | 20.97                |                     |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ant 2           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low-Middle Ch / Freq | Power Middle Ch / Freq | Power High-Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 23.84               | 23.81                      | 23.87                  | 23.85                       | 23.52                | 25.7                |  |
| 20              | QPSK       | 1       | 49        | 23.85               | 23.79                      | 23.76                  | 24.08                       | 23.88                |                     |  |
| 20              | QPSK       | 1       | 99        | 23.84               | 23.79                      | 23.82                  | 23.58                       | 23.75                |                     |  |
| 20              | QPSK       | 50      | 0         | 23.05               | 22.96                      | 22.85                  | 23.02                       | 22.86                | 24.7                |  |
| 20              | QPSK       | 50      | 24        | 23.04               | 22.97                      | 22.93                  | 23.06                       | 22.98                |                     |  |
| 20              | QPSK       | 50      | 50        | 22.88               | 22.94                      | 22.90                  | 22.98                       | 22.93                |                     |  |
| 20              | QPSK       | 100     | 0         | 23.04               | 22.96                      | 22.91                  | 23.05                       | 22.89                | 24.7                |  |
| 20              | 16QAM      | 1       | 0         | 23.06               | 22.93                      | 22.96                  | 22.98                       | 22.83                |                     |  |
| 20              | 16QAM      | 1       | 49        | 22.97               | 22.92                      | 22.87                  | 23.18                       | 22.98                |                     |  |
| 20              | 16QAM      | 1       | 99        | 22.97               | 22.97                      | 22.94                  | 22.70                       | 22.84                | 23.7                |  |
| 20              | 16QAM      | 50      | 0         | 22.08               | 22.00                      | 21.90                  | 22.06                       | 21.87                |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.10               | 22.01                      | 21.96                  | 22.08                       | 22.01                |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.03               | 21.98                      | 21.94                  | 22.01                       | 21.96                | 23.7                |  |
| 20              | 16QAM      | 100     | 0         | 22.06               | 21.98                      | 21.95                  | 21.99                       | 21.91                |                     |  |
| 20              | 64QAM      | 1       | 0         | 21.82               | 21.66                      | 21.68                  | 21.59                       | 21.40                |                     |  |
| 20              | 64QAM      | 1       | 49        | 21.73               | 21.71                      | 21.65                  | 21.83                       | 21.80                | 22.7                |  |
| 20              | 64QAM      | 1       | 99        | 21.74               | 21.75                      | 21.66                  | 21.43                       | 21.61                |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.10               | 21.02                      | 20.92                  | 21.07                       | 20.90                |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.11               | 21.01                      | 20.97                  | 21.12                       | 20.99                | Turn-up limit (dBm) |  |
| 20              | 64QAM      | 50      | 50        | 21.02               | 20.98                      | 20.95                  | 21.03                       | 20.96                |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.07               | 21.01                      | 20.98                  | 21.01                       | 20.93                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 23.90               | 23.82                      | 23.79                  | 23.94                       | 23.70                | 25.7                |  |
| 15              | QPSK       | 1       | 37        | 23.85               | 23.76                      | 23.72                  | 24.02                       | 23.86                |                     |  |
| 15              | QPSK       | 1       | 74        | 23.84               | 23.86                      | 23.84                  | 23.77                       | 23.82                |                     |  |
| 15              | QPSK       | 36      | 0         | 22.83               | 22.95                      | 22.85                  | 23.06                       | 22.90                | 24.7                |  |
| 15              | QPSK       | 36      | 20        | 23.02               | 22.91                      | 22.91                  | 23.12                       | 22.99                |                     |  |
| 15              | QPSK       | 36      | 39        | 22.88               | 22.94                      | 22.89                  | 23.03                       | 22.95                |                     |  |
| 15              | QPSK       | 75      | 0         | 23.03               | 22.95                      | 22.93                  | 23.07                       | 22.95                | 24.7                |  |
| 15              | 16QAM      | 1       | 0         | 23.09               | 22.99                      | 22.98                  | 23.10                       | 22.78                |                     |  |
| 15              | 16QAM      | 1       | 37        | 22.93               | 22.90                      | 22.82                  | 23.13                       | 22.96                |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.00               | 23.05                      | 23.00                  | 22.94                       | 22.95                | 23.7                |  |
| 15              | 16QAM      | 36      | 0         | 21.95               | 21.93                      | 21.82                  | 22.01                       | 21.85                |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.03               | 21.90                      | 21.89                  | 22.09                       | 21.95                |                     |  |
| 15              | 16QAM      | 36      | 39        | 21.97               | 21.91                      | 21.86                  | 22.00                       | 21.92                | 23.7                |  |
| 15              | 16QAM      | 75      | 0         | 22.05               | 21.97                      | 21.93                  | 22.09                       | 21.96                |                     |  |
| 15              | 64QAM      | 1       | 0         | 21.79               | 21.79                      | 21.73                  | 21.76                       | 21.71                |                     |  |
| 15              | 64QAM      | 1       | 37        | 21.74               | 21.72                      | 21.70                  | 21.90                       | 21.73                | 22.7                |  |
| 15              | 64QAM      | 1       | 74        | 21.74               | 21.86                      | 21.71                  | 21.75                       | 21.78                |                     |  |
| 15              | 64QAM      | 36      | 0         | 20.87               | 20.99                      | 20.90                  | 21.07                       | 20.82                |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.02               | 20.97                      | 20.93                  | 21.14                       | 21.01                | Turn-up limit (dBm) |  |
| 15              | 64QAM      | 36      | 39        | 21.01               | 20.97                      | 20.94                  | 21.07                       | 20.96                |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.09               | 20.97                      | 20.94                  | 21.11                       | 20.95                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 23.88               | 23.75                      | 23.72                  | 23.84                       | 23.70                | 25.7                |  |
| 10              | QPSK       | 1       | 25        | 23.83               | 23.70                      | 23.70                  | 23.94                       | 23.84                |                     |  |
| 10              | QPSK       | 1       | 49        | 23.75               | 23.78                      | 23.84                  | 23.77                       | 23.74                |                     |  |
| 10              | QPSK       | 25      | 0         | 22.81               | 22.91                      | 22.82                  | 23.04                       | 22.89                | 24.7                |  |
| 10              | QPSK       | 25      | 12        | 22.82               | 22.81                      | 22.91                  | 23.02                       | 22.97                |                     |  |
| 10              | QPSK       | 25      | 25        | 22.89               | 22.86                      | 22.87                  | 22.84                       | 22.86                |                     |  |
| 10              | QPSK       | 50      | 0         | 22.94               | 22.85                      | 22.82                  | 23.05                       | 22.95                | 24.7                |  |
| 10              | 16QAM      | 1       | 0         | 23.04               | 22.97                      | 22.92                  | 23.05                       | 22.70                |                     |  |
| 10              | 16QAM      | 1       | 25        | 22.83               | 22.90                      | 22.72                  | 23.12                       | 22.87                |                     |  |
| 10              | 16QAM      | 1       | 49        | 22.83               | 23.00                      | 22.99                  | 22.92                       | 22.87                | 23.7                |  |
| 10              | 16QAM      | 25      | 0         | 21.81               | 21.92                      | 21.74                  | 21.91                       | 21.85                |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.01               | 21.81                      | 21.85                  | 22.06                       | 21.85                |                     |  |
| 10              | 16QAM      | 25      | 25        | 21.94               | 21.89                      | 21.78                  | 21.98                       | 21.83                | 23.7                |  |
| 10              | 16QAM      | 50      | 0         | 21.97               | 21.96                      | 21.86                  | 22.02                       | 21.91                |                     |  |
| 10              | 64QAM      | 1       | 0         | 21.76               | 21.70                      | 21.74                  | 21.79                       | 21.71                |                     |  |
| 10              | 64QAM      | 1       | 25        | 21.72               | 21.77                      | 21.75                  | 21.81                       | 21.77                | 22.7                |  |
| 10              | 64QAM      | 1       | 49        | 21.70               | 21.79                      | 21.70                  | 21.79                       | 21.70                |                     |  |
| 10              | 64QAM      | 25      | 0         | 20.87               | 20.93                      | 20.80                  | 21.07                       | 20.84                |                     |  |
| 10              | 64QAM      | 25      | 12        | 20.99               | 20.88                      | 20.92                  | 21.10                       | 20.97                | Turn-up limit (dBm) |  |
| 10              | 64QAM      | 25      | 25        | 20.87               | 20.87                      | 20.89                  | 21.00                       | 20.92                |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.03               | 20.87                      | 20.84                  | 21.08                       | 20.89                |                     |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.3                      | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 24.04               | 23.87                      | 23.75                  | 24.02                       | 23.89                | 25.7                |  |
| 5               | QPSK       | 1       | 12        | 23.95               | 23.87                      | 23.86                  | 24.04                       | 23.88                |                     |  |
| 5               | QPSK       | 1       | 24        | 23.88               | 23.85                      | 23.81                  | 24.02                       | 23.79                |                     |  |
| 5               | QPSK       | 12      | 0         | 23.09               | 22.98                      | 22.96                  | 23.15                       | 23.03                | 24.7                |  |
| 5               | QPSK       | 12      | 7         | 23.09               | 23.01                      | 22.95                  | 23.17                       | 23.02                |                     |  |
| 5               | QPSK       | 12      | 13        | 23.07               | 22.96                      | 22.95                  | 23.17                       | 23.03                |                     |  |
| 5               | QPSK       | 25      | 0         | 23.08               | 22.98                      | 22.92                  | 23.12                       | 22.98                | 24.7                |  |
| 5               | 16QAM      | 1       | 0         | 23.12               | 22.99                      | 22.92                  | 23.13                       | 23.02                |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.15               | 23.03                      | 23.04                  | 23.26                       | 23.11                |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.14               | 23.00                      | 23.00                  | 23.18                       | 23.01                | 23.7                |  |
| 5               | 16QAM      | 12      | 0         | 22.07               | 21.97                      | 21.94                  | 22.11                       | 22.03                |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.09               | 22.01                      | 21.97                  | 22.13                       | 22.00                |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.06               | 21.98                      | 21.95                  | 22.12                       | 21.97                | 23.7                |  |
| 5               | 16QAM      | 25      | 0         | 22.14               | 22.03                      | 21.99                  | 22.14                       | 22.02                |                     |  |
| 5               | 64QAM      | 1       | 0         | 21.83               | 21.95                      | 21.88                  | 21.91                       | 21.88                |                     |  |
| 5               | 64QAM      | 1       | 12        | 21.86               | 21.84                      | 21.86                  | 22.00                       | 21.90                | 22.7                |  |
| 5               | 64QAM      | 1       | 24        | 21.84               | 22.02                      | 21.86                  | 21.95                       | 21.88                |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.16               | 21.13                      | 21.04                  | 21.27                       | 21.06                |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.14               | 21.10                      | 21.13                  | 21.25                       | 21.20                | Turn-up limit (dBm) |  |
| 5               | 64QAM      | 12      | 13        | 21.18               | 21.13                      | 21.06                  | 21.19                       | 21.11                |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.27               | 21.15                      | 21.08                  | 21.21                       | 21.08                |                     |  |



| Band 41 HPUE    |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| Ant 9           |            |         |           |                     |                            |                        |                             |                      |                     |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low-Middle Ch / Freq | Power Middle Ch / Freq | Power High-Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |
| 20              | QPSK       | 1       | 0         | 25.71               | 25.60                      | 25.64                  | 25.74                       | 25.50                | 27.5                |
| 20              | QPSK       | 1       | 49        | 25.74               | 25.66                      | 25.64                  | 26.04                       | 25.86                |                     |
| 20              | QPSK       | 1       | 99        | 25.81               | 25.58                      | 25.61                  | 25.50                       | 25.64                |                     |
| 20              | QPSK       | 50      | 0         | 24.93               | 24.86                      | 24.76                  | 25.02                       | 24.88                | 26.5                |
| 20              | QPSK       | 50      | 24        | 24.94               | 24.85                      | 24.84                  | 25.09                       | 25.00                |                     |
| 20              | QPSK       | 50      | 50        | 24.86               | 24.83                      | 24.82                  | 25.01                       | 24.97                |                     |
| 20              | QPSK       | 100     | 0         | 24.82               | 24.86                      | 24.83                  | 24.95                       | 24.90                | 26.5                |
| 20              | 16QAM      | 1       | 0         | 25.07               | 24.95                      | 25.03                  | 25.13                       | 24.75                |                     |
| 20              | 16QAM      | 1       | 49        | 24.99               | 24.95                      | 24.92                  | 25.34                       | 25.14                |                     |
| 20              | 16QAM      | 1       | 99        | 24.97               | 24.92                      | 24.94                  | 24.82                       | 24.98                | 25.5                |
| 20              | 16QAM      | 50      | 0         | 23.94               | 23.89                      | 23.79                  | 24.07                       | 23.89                |                     |
| 20              | 16QAM      | 50      | 24        | 23.96               | 23.91                      | 23.87                  | 24.11                       | 24.01                |                     |
| 20              | 16QAM      | 50      | 50        | 23.81               | 23.88                      | 23.86                  | 24.01                       | 23.98                | 24.5                |
| 20              | 16QAM      | 100     | 0         | 23.97               | 23.88                      | 23.87                  | 23.98                       | 23.94                |                     |
| 20              | 64QAM      | 1       | 0         | 23.88               | 23.75                      | 23.80                  | 23.88                       | 23.64                |                     |
| 20              | 64QAM      | 1       | 49        | 23.80               | 23.79                      | 23.74                  | 24.20                       | 23.99                | 24.5                |
| 20              | 64QAM      | 1       | 99        | 23.82               | 23.80                      | 23.79                  | 23.70                       | 23.86                |                     |
| 20              | 64QAM      | 50      | 0         | 22.99               | 22.89                      | 22.81                  | 23.09                       | 22.93                |                     |
| 20              | 64QAM      | 50      | 24        | 22.96               | 22.91                      | 22.86                  | 23.10                       | 23.03                | 24.5                |
| 20              | 64QAM      | 50      | 50        | 22.92               | 22.89                      | 22.86                  | 23.05                       | 23.01                |                     |
| 20              | 64QAM      | 100     | 0         | 22.96               | 22.90                      | 22.87                  | 23.01                       | 22.94                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               | (dBm)               |
| 15              | QPSK       | 1       | 0         | 25.80               | 25.70                      | 25.65                  | 25.91                       | 25.65                | 27.5                |
| 15              | QPSK       | 1       | 37        | 25.76               | 25.64                      | 25.60                  | 26.02                       | 25.84                |                     |
| 15              | QPSK       | 1       | 74        | 25.69               | 25.76                      | 25.72                  | 25.74                       | 25.79                |                     |
| 15              | QPSK       | 36      | 0         | 24.83               | 24.86                      | 24.75                  | 25.05                       | 24.90                | 26.5                |
| 15              | QPSK       | 36      | 20        | 24.91               | 24.82                      | 24.82                  | 25.12                       | 24.99                |                     |
| 15              | QPSK       | 36      | 39        | 24.86               | 24.82                      | 24.80                  | 25.02                       | 24.95                |                     |
| 15              | QPSK       | 75      | 0         | 24.83               | 24.84                      | 24.83                  | 25.08                       | 24.95                | 26.5                |
| 15              | 16QAM      | 1       | 0         | 25.08               | 25.00                      | 24.98                  | 25.21                       | 24.97                |                     |
| 15              | 16QAM      | 1       | 37        | 24.97               | 24.91                      | 24.83                  | 25.28                       | 25.15                |                     |
| 15              | 16QAM      | 1       | 74        | 24.95               | 25.03                      | 24.98                  | 25.06                       | 25.08                | 25.5                |
| 15              | 16QAM      | 36      | 0         | 23.84               | 23.86                      | 23.75                  | 24.04                       | 23.87                |                     |
| 15              | 16QAM      | 36      | 20        | 23.89               | 23.83                      | 23.80                  | 24.12                       | 23.96                |                     |
| 15              | 16QAM      | 36      | 39        | 23.85               | 23.83                      | 23.77                  | 24.02                       | 23.96                | 25.5                |
| 15              | 16QAM      | 75      | 0         | 23.94               | 23.87                      | 23.82                  | 24.10                       | 23.95                |                     |
| 15              | 64QAM      | 1       | 0         | 23.87               | 23.76                      | 23.70                  | 24.04                       | 23.77                |                     |
| 15              | 64QAM      | 1       | 37        | 23.86               | 23.79                      | 23.71                  | 24.19                       | 23.97                | 24.5                |
| 15              | 64QAM      | 1       | 74        | 23.84               | 23.89                      | 23.82                  | 23.90                       | 23.95                |                     |
| 15              | 64QAM      | 36      | 0         | 22.86               | 22.87                      | 22.77                  | 23.06                       | 22.84                |                     |
| 15              | 64QAM      | 36      | 20        | 22.96               | 22.85                      | 22.82                  | 23.16                       | 23.01                | 24.5                |
| 15              | 64QAM      | 36      | 39        | 22.92               | 22.85                      | 22.81                  | 23.04                       | 22.97                |                     |
| 15              | 64QAM      | 75      | 0         | 22.95               | 22.88                      | 22.86                  | 23.10                       | 22.96                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 | (dBm)               |
| 10              | QPSK       | 1       | 0         | 25.80               | 25.66                      | 25.54                  | 25.82                       | 25.81                | 27.5                |
| 10              | QPSK       | 1       | 25        | 25.72               | 25.61                      | 25.64                  | 25.99                       | 25.85                |                     |
| 10              | QPSK       | 1       | 49        | 25.67               | 25.68                      | 25.58                  | 25.97                       | 25.69                |                     |
| 10              | QPSK       | 25      | 0         | 24.83               | 24.78                      | 24.87                  | 25.13                       | 25.03                | 26.5                |
| 10              | QPSK       | 25      | 12        | 25.00               | 24.86                      | 24.87                  | 25.12                       | 24.99                |                     |
| 10              | QPSK       | 25      | 25        | 24.92               | 24.83                      | 24.79                  | 25.15                       | 24.99                |                     |
| 10              | QPSK       | 50      | 0         | 24.92               | 24.78                      | 24.88                  | 25.11                       | 25.00                | 26.5                |
| 10              | 16QAM      | 1       | 0         | 25.12               | 25.05                      | 24.90                  | 25.26                       | 25.10                |                     |
| 10              | 16QAM      | 1       | 25        | 25.12               | 24.95                      | 24.93                  | 25.25                       | 25.18                |                     |
| 10              | 16QAM      | 1       | 49        | 25.16               | 24.97                      | 25.02                  | 25.30                       | 25.05                | 25.5                |
| 10              | 16QAM      | 25      | 0         | 24.00               | 23.85                      | 23.84                  | 24.11                       | 23.98                |                     |
| 10              | 16QAM      | 25      | 12        | 24.07               | 23.95                      | 23.87                  | 24.13                       | 24.10                |                     |
| 10              | 16QAM      | 25      | 25        | 23.91               | 23.85                      | 23.85                  | 24.12                       | 24.00                | 24.5                |
| 10              | 16QAM      | 50      | 0         | 23.92               | 23.84                      | 23.91                  | 24.17                       | 24.06                |                     |
| 10              | 64QAM      | 1       | 0         | 24.05               | 23.82                      | 23.86                  | 24.20                       | 24.06                |                     |
| 10              | 64QAM      | 1       | 25        | 23.93               | 23.85                      | 23.91                  | 24.20                       | 24.03                | 24.5                |
| 10              | 64QAM      | 1       | 49        | 23.97               | 23.95                      | 23.86                  | 24.15                       | 24.04                |                     |
| 10              | 64QAM      | 25      | 0         | 23.02               | 22.86                      | 22.90                  | 23.12                       | 23.08                |                     |
| 10              | 64QAM      | 25      | 12        | 23.04               | 22.96                      | 22.94                  | 23.14                       | 23.02                | 24.5                |
| 10              | 64QAM      | 25      | 25        | 22.94               | 22.84                      | 22.91                  | 23.21                       | 23.01                |                     |
| 10              | 64QAM      | 50      | 0         | 22.97               | 22.96                      | 22.84                  | 23.10                       | 23.03                |                     |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2495.5              | 2545.8                     | 2593                   | 2640.0                      | 2687.5               | (dBm)               |
| 5               | QPSK       | 1       | 0         | 25.84               | 25.69                      | 25.61                  | 25.94                       | 25.85                | 27.5                |
| 5               | QPSK       | 1       | 12        | 25.82               | 25.68                      | 25.74                  | 26.03                       | 25.87                |                     |
| 5               | QPSK       | 1       | 24        | 25.77               | 25.68                      | 25.66                  | 25.98                       | 25.75                |                     |
| 5               | QPSK       | 12      | 0         | 24.99               | 24.87                      | 24.88                  | 25.18                       | 25.07                | 26.5                |
| 5               | QPSK       | 12      | 7         | 25.00               | 24.91                      | 24.90                  | 25.20                       | 25.06                |                     |
| 5               | QPSK       | 12      | 13        | 24.98               | 24.89                      | 24.87                  | 25.24                       | 25.00                |                     |
| 5               | QPSK       | 25      | 0         | 24.98               | 24.88                      | 24.88                  | 25.14                       | 25.02                | 26.5                |
| 5               | 16QAM      | 1       | 0         | 25.19               | 25.05                      | 24.98                  | 25.29                       | 25.18                |                     |
| 5               | 16QAM      | 1       | 12        | 25.14               | 25.05                      | 25.03                  | 25.35                       | 25.18                |                     |
| 5               | 16QAM      | 1       | 24        | 25.16               | 25.05                      | 25.05                  | 25.31                       | 25.13                | 25.5                |
| 5               | 16QAM      | 12      | 0         | 24.02               | 23.90                      | 23.92                  | 24.20                       | 24.07                |                     |
| 5               | 16QAM      | 12      | 7         | 24.07               | 23.95                      | 23.96                  | 24.23                       | 24.13                |                     |
| 5               | 16QAM      | 12      | 13        | 24.01               | 23.92                      | 23.90                  | 24.21                       | 24.04                | 24.5                |
| 5               | 16QAM      | 25      | 0         | 24.02               | 23.94                      | 23.91                  | 24.20                       | 24.10                |                     |
| 5               | 64QAM      | 1       | 0         | 24.06               | 23.91                      | 23.87                  | 24.20                       | 24.07                |                     |
| 5               | 64QAM      | 1       | 12        | 24.03               | 23.92                      | 23.91                  | 24.25                       | 24.07                | 24.5                |
| 5               | 64QAM      | 1       | 24        | 24.04               | 23.95                      | 23.94                  | 24.22                       | 24.05                |                     |
| 5               | 64QAM      | 12      | 0         | 23.07               | 22.94                      | 22.92                  | 23.22                       | 23.13                |                     |
| 5               | 64QAM      | 12      | 7         | 23.05               | 22.98                      | 22.95                  | 23.24                       | 23.11                | 24.5                |
| 5               | 64QAM      | 12      | 13        | 23.03               | 22.94                      | 22.94                  | 23.26                       | 23.07                |                     |
| 5               | 64QAM      | 25      | 0         | 23.04               | 22.97                      | 22.93                  | 23.20                       | 23.09                |                     |



| Band 48 (3.5G Band) |            |         |           |                       |                              |                               |                        |                     |  |  |
|---------------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|--|
| Ann 2               |            |         |           |                       |                              |                               |                        |                     |  |  |
| BW [MHz]            | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel             |            |         |           | 55340                 | 55830                        | 56160                         | 56640                  |                     |  |  |
| Frequency (MHz)     |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |  |
| 20                  | QPSK       | 1       | 0         | 20.81                 | 20.91                        | 20.73                         | 20.73                  | 22.3                |  |  |
| 20                  | QPSK       | 1       | 49        | 20.66                 | 20.68                        | 20.51                         | 20.50                  |                     |  |  |
| 20                  | QPSK       | 1       | 99        | 20.59                 | 20.64                        | 20.45                         | 20.44                  |                     |  |  |
| 20                  | QPSK       | 50      | 0         | 20.65                 | 20.66                        | 20.54                         | 20.55                  |                     |  |  |
| 20                  | QPSK       | 50      | 24        | 20.60                 | 20.52                        | 20.50                         | 20.48                  | 21.3                |  |  |
| 20                  | QPSK       | 50      | 50        | 20.48                 | 20.46                        | 20.32                         | 20.32                  |                     |  |  |
| 20                  | QPSK       | 100     | 0         | 20.58                 | 20.53                        | 20.48                         | 20.49                  |                     |  |  |
| 20                  | 16QAM      | 1       | 0         | 20.69                 | 20.77                        | 20.64                         | 20.68                  |                     |  |  |
| 20                  | 16QAM      | 1       | 49        | 20.51                 | 20.50                        | 20.42                         | 20.39                  | 21.3                |  |  |
| 20                  | 16QAM      | 1       | 99        | 20.52                 | 20.50                        | 20.33                         | 20.36                  |                     |  |  |
| 20                  | 16QAM      | 50      | 0         | 19.69                 | 19.69                        | 19.58                         | 19.57                  |                     |  |  |
| 20                  | 16QAM      | 50      | 24        | 19.64                 | 19.57                        | 19.51                         | 19.52                  |                     |  |  |
| 20                  | 16QAM      | 50      | 50        | 19.52                 | 19.51                        | 19.34                         | 19.36                  | 20.3                |  |  |
| 20                  | 16QAM      | 100     | 0         | 19.64                 | 19.56                        | 19.51                         | 19.51                  |                     |  |  |
| 20                  | 64QAM      | 1       | 0         | 19.42                 | 19.53                        | 19.40                         | 19.41                  |                     |  |  |
| 20                  | 64QAM      | 1       | 49        | 19.31                 | 19.31                        | 19.32                         | 19.33                  |                     |  |  |
| 20                  | 64QAM      | 1       | 99        | 19.30                 | 19.31                        | 19.33                         | 19.35                  | 19.3                |  |  |
| 20                  | 64QAM      | 50      | 0         | 18.67                 | 18.73                        | 18.59                         | 18.58                  |                     |  |  |
| 20                  | 64QAM      | 50      | 24        | 18.67                 | 18.59                        | 18.52                         | 18.53                  |                     |  |  |
| 20                  | 64QAM      | 50      | 50        | 18.52                 | 18.52                        | 18.37                         | 18.37                  |                     |  |  |
| 20                  | 64QAM      | 100     | 0         | 18.64                 | 18.56                        | 18.50                         | 18.51                  | Tune-up limit (dBm) |  |  |
| Channel             |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |  |  |
| Frequency (MHz)     |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |  |
| 15                  | QPSK       | 1       | 0         | 20.72                 | 20.77                        | 20.60                         | 20.34                  | 22.3                |  |  |
| 15                  | QPSK       | 1       | 37        | 20.63                 | 20.65                        | 20.47                         | 20.31                  |                     |  |  |
| 15                  | QPSK       | 1       | 74        | 20.62                 | 20.64                        | 20.45                         | 20.30                  |                     |  |  |
| 15                  | QPSK       | 36      | 0         | 20.61                 | 20.65                        | 20.52                         | 20.34                  |                     |  |  |
| 15                  | QPSK       | 36      | 20        | 20.59                 | 20.58                        | 20.46                         | 20.30                  | 21.3                |  |  |
| 15                  | QPSK       | 36      | 39        | 20.47                 | 20.46                        | 20.30                         | 20.31                  |                     |  |  |
| 15                  | QPSK       | 75      | 0         | 20.52                 | 20.62                        | 20.47                         | 20.33                  |                     |  |  |
| 15                  | 16QAM      | 1       | 0         | 20.64                 | 20.70                        | 20.61                         | 20.32                  |                     |  |  |
| 15                  | 16QAM      | 1       | 37        | 20.42                 | 20.49                        | 20.32                         | 20.31                  | 21.3                |  |  |
| 15                  | 16QAM      | 1       | 74        | 20.55                 | 20.56                        | 20.40                         | 20.33                  |                     |  |  |
| 15                  | 16QAM      | 36      | 0         | 19.60                 | 19.62                        | 19.49                         | 19.19                  |                     |  |  |
| 15                  | 16QAM      | 36      | 20        | 19.55                 | 19.54                        | 19.42                         | 19.12                  |                     |  |  |
| 15                  | 16QAM      | 36      | 39        | 19.44                 | 19.42                        | 19.27                         | 19.06                  | 20.3                |  |  |
| 15                  | 16QAM      | 75      | 0         | 19.53                 | 19.60                        | 19.48                         | 19.18                  |                     |  |  |
| 15                  | 64QAM      | 1       | 0         | 19.36                 | 19.47                        | 19.35                         | 19.06                  |                     |  |  |
| 15                  | 64QAM      | 1       | 37        | 19.28                 | 19.31                        | 19.17                         | 18.88                  |                     |  |  |
| 15                  | 64QAM      | 1       | 74        | 19.25                 | 19.29                        | 19.11                         | 18.80                  | 19.3                |  |  |
| 15                  | 64QAM      | 36      | 0         | 18.64                 | 18.67                        | 18.54                         | 18.27                  |                     |  |  |
| 15                  | 64QAM      | 36      | 20        | 18.61                 | 18.60                        | 18.47                         | 18.16                  |                     |  |  |
| 15                  | 64QAM      | 36      | 39        | 18.50                 | 18.47                        | 18.35                         | 18.09                  |                     |  |  |
| 15                  | 64QAM      | 75      | 0         | 18.53                 | 18.62                        | 18.47                         | 18.19                  | Tune-up limit (dBm) |  |  |
| Channel             |            |         |           | 55290                 | 55815                        | 56165                         | 56660                  |                     |  |  |
| Frequency (MHz)     |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3693                   |                     |  |  |
| 10                  | QPSK       | 1       | 0         | 20.67                 | 20.76                        | 20.60                         | 20.32                  | 22.3                |  |  |
| 10                  | QPSK       | 1       | 25        | 20.55                 | 20.62                        | 20.41                         | 20.31                  |                     |  |  |
| 10                  | QPSK       | 1       | 49        | 20.60                 | 20.60                        | 20.39                         | 20.32                  |                     |  |  |
| 10                  | QPSK       | 25      | 0         | 20.60                 | 20.62                        | 20.52                         | 20.38                  |                     |  |  |
| 10                  | QPSK       | 25      | 12        | 20.59                 | 20.50                        | 20.46                         | 20.35                  | 21.3                |  |  |
| 10                  | QPSK       | 25      | 25        | 20.44                 | 20.44                        | 20.30                         | 20.33                  |                     |  |  |
| 10                  | QPSK       | 50      | 0         | 20.47                 | 20.58                        | 20.39                         | 20.31                  |                     |  |  |
| 10                  | 16QAM      | 1       | 0         | 20.61                 | 20.65                        | 20.53                         | 20.30                  |                     |  |  |
| 10                  | 16QAM      | 1       | 25        | 20.36                 | 20.46                        | 20.31                         | 20.33                  | 21.3                |  |  |
| 10                  | 16QAM      | 1       | 49        | 20.50                 | 20.52                        | 20.36                         | 20.32                  |                     |  |  |
| 10                  | 16QAM      | 25      | 0         | 19.54                 | 19.61                        | 19.49                         | 19.12                  |                     |  |  |
| 10                  | 16QAM      | 25      | 12        | 19.45                 | 19.53                        | 19.37                         | 19.11                  |                     |  |  |
| 10                  | 16QAM      | 25      | 25        | 19.34                 | 19.34                        | 19.25                         | 19.04                  | 20.3                |  |  |
| 10                  | 16QAM      | 50      | 0         | 19.44                 | 19.59                        | 19.48                         | 19.08                  |                     |  |  |
| 10                  | 64QAM      | 1       | 0         | 19.32                 | 19.42                        | 19.34                         | 19.03                  |                     |  |  |
| 10                  | 64QAM      | 1       | 25        | 19.27                 | 19.25                        | 19.08                         | 18.87                  |                     |  |  |
| 10                  | 64QAM      | 1       | 49        | 19.16                 | 19.29                        | 19.09                         | 18.81                  | 19.3                |  |  |
| 10                  | 64QAM      | 25      | 0         | 18.56                 | 18.66                        | 18.51                         | 18.17                  |                     |  |  |
| 10                  | 64QAM      | 25      | 12        | 18.52                 | 18.56                        | 18.44                         | 18.09                  |                     |  |  |
| 10                  | 64QAM      | 25      | 25        | 18.40                 | 18.38                        | 18.33                         | 18.07                  |                     |  |  |
| 10                  | 64QAM      | 50      | 0         | 18.49                 | 18.57                        | 18.37                         | 18.12                  | Tune-up limit (dBm) |  |  |
| Channel             |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  |                     |  |  |
| Frequency (MHz)     |            |         |           | 3552.5                | 3607                         | 3643                          | 3693.5                 |                     |  |  |
| 5                   | QPSK       | 1       | 0         | 20.70                 | 20.74                        | 20.53                         | 20.34                  | 22.3                |  |  |
| 5                   | QPSK       | 1       | 12        | 20.59                 | 20.57                        | 20.47                         | 20.31                  |                     |  |  |
| 5                   | QPSK       | 1       | 24        | 20.54                 | 20.61                        | 20.36                         | 20.32                  |                     |  |  |
| 5                   | QPSK       | 12      | 0         | 20.54                 | 20.62                        | 20.48                         | 20.36                  |                     |  |  |
| 5                   | QPSK       | 12      | 7         | 20.59                 | 20.53                        | 20.41                         | 20.33                  | 21.3                |  |  |
| 5                   | QPSK       | 12      | 13        | 20.38                 | 20.42                        | 20.35                         | 20.34                  |                     |  |  |
| 5                   | QPSK       | 25      | 0         | 20.50                 | 20.52                        | 20.47                         | 20.32                  |                     |  |  |
| 5                   | 16QAM      | 1       | 0         | 20.63                 | 20.67                        | 20.58                         | 20.32                  |                     |  |  |
| 5                   | 16QAM      | 1       | 12        | 20.42                 | 20.41                        | 20.31                         | 20.30                  | 21.3                |  |  |
| 5                   | 16QAM      | 1       | 24        | 20.50                 | 20.46                        | 20.35                         | 20.31                  |                     |  |  |
| 5                   | 16QAM      | 12      | 0         | 19.51                 | 19.56                        | 19.39                         | 19.18                  |                     |  |  |
| 5                   | 16QAM      | 12      | 7         | 19.45                 | 19.49                        | 19.35                         | 19.09                  |                     |  |  |
| 5                   | 16QAM      | 12      | 13        | 19.37                 | 19.41                        | 19.21                         | 19.04                  | 20.3                |  |  |
| 5                   | 16QAM      | 25      | 0         | 19.52                 | 19.51                        | 19.42                         | 19.10                  |                     |  |  |
| 5                   | 64QAM      | 1       | 0         | 19.28                 | 19.42                        | 19.31                         | 18.98                  |                     |  |  |
| 5                   | 64QAM      | 1       | 12        | 19.19                 | 19.31                        | 19.13                         | 18.83                  |                     |  |  |
| 5                   | 64QAM      | 1       | 24        | 19.17                 | 19.29                        | 19.10                         | 18.81                  | 19.3                |  |  |
| 5                   | 64QAM      | 12      | 0         | 18.60                 | 18.62                        | 18.47                         | 18.24                  |                     |  |  |
| 5                   | 64QAM      | 12      | 7         | 18.53                 | 18.53                        | 18.46                         | 18.14                  |                     |  |  |
| 5                   | 64QAM      | 12      | 13        | 18.42                 | 18.46                        | 18.36                         | 18.00                  |                     |  |  |
| 5                   | 64QAM      | 25      | 0         | 18.43                 | 18.61                        | 18.42                         | 18.15                  | Tune-up limit (dBm) |  |  |





| Band 38         |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ann 2           |            |         |           |                             |                                |                              |                           |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37850                       | 38000                          | 38150                        |                           |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                           |
| 20              | QPSK       | 1       | 0         | 24.95                       | 24.88                          | 24.81                        | 25.7                      |
| 20              | QPSK       | 1       | 49        | 24.94                       | 24.82                          | 24.75                        |                           |
| 20              | QPSK       | 1       | 99        | 24.93                       | 24.78                          | 24.75                        |                           |
| 20              | QPSK       | 50      | 0         | 24.19                       | 24.05                          | 23.86                        |                           |
| 20              | QPSK       | 50      | 24        | 24.17                       | 24.04                          | 24.00                        |                           |
| 20              | QPSK       | 50      | 50        | 24.03                       | 24.05                          | 23.91                        | 24.7                      |
| 20              | QPSK       | 100     | 0         | 24.11                       | 23.94                          | 23.93                        |                           |
| 20              | 16QAM      | 1       | 0         | 24.07                       | 24.04                          | 23.89                        |                           |
| 20              | 16QAM      | 1       | 49        | 24.07                       | 23.85                          | 23.82                        | 24.7                      |
| 20              | 16QAM      | 1       | 99        | 23.95                       | 23.97                          | 23.90                        |                           |
| 20              | 16QAM      | 50      | 0         | 23.16                       | 23.06                          | 22.97                        |                           |
| 20              | 16QAM      | 50      | 24        | 23.17                       | 23.00                          | 22.93                        | 23.7                      |
| 20              | 16QAM      | 50      | 50        | 23.08                       | 23.06                          | 22.99                        |                           |
| 20              | 16QAM      | 100     | 0         | 23.11                       | 23.01                          | 22.95                        |                           |
| 20              | 64QAM      | 1       | 0         | 22.81                       | 22.78                          | 22.67                        | 23.7                      |
| 20              | 64QAM      | 1       | 49        | 22.71                       | 22.71                          | 22.77                        |                           |
| 20              | 64QAM      | 1       | 99        | 22.68                       | 22.82                          | 22.78                        |                           |
| 20              | 64QAM      | 50      | 0         | 22.15                       | 22.02                          | 21.92                        | 22.7                      |
| 20              | 64QAM      | 50      | 24        | 22.14                       | 22.04                          | 22.04                        |                           |
| 20              | 64QAM      | 50      | 50        | 22.08                       | 22.09                          | 21.91                        |                           |
| 20              | 64QAM      | 100     | 0         | 22.08                       | 21.96                          | 22.05                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37825                       | 38000                          | 38175                        |                           |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                           |
| 15              | QPSK       | 1       | 0         | 24.92                       | 24.90                          | 24.81                        | 25.7                      |
| 15              | QPSK       | 1       | 37        | 24.91                       | 24.87                          | 24.80                        |                           |
| 15              | QPSK       | 1       | 74        | 24.90                       | 24.81                          | 24.78                        |                           |
| 15              | QPSK       | 36      | 0         | 24.18                       | 23.95                          | 23.89                        |                           |
| 15              | QPSK       | 36      | 20        | 24.14                       | 24.00                          | 23.91                        |                           |
| 15              | QPSK       | 36      | 39        | 24.07                       | 24.05                          | 23.90                        | 24.7                      |
| 15              | QPSK       | 75      | 0         | 24.06                       | 24.00                          | 23.82                        |                           |
| 15              | 16QAM      | 1       | 0         | 24.07                       | 24.03                          | 23.92                        |                           |
| 15              | 16QAM      | 1       | 37        | 23.92                       | 23.82                          | 23.86                        | 24.7                      |
| 15              | 16QAM      | 1       | 74        | 23.96                       | 23.92                          | 23.87                        |                           |
| 15              | 16QAM      | 36      | 0         | 23.07                       | 22.98                          | 22.86                        |                           |
| 15              | 16QAM      | 36      | 20        | 23.01                       | 22.94                          | 22.81                        | 23.7                      |
| 15              | 16QAM      | 36      | 39        | 23.04                       | 22.97                          | 22.92                        |                           |
| 15              | 16QAM      | 75      | 0         | 23.13                       | 22.97                          | 22.88                        |                           |
| 15              | 64QAM      | 1       | 0         | 22.75                       | 22.74                          | 22.75                        | 23.7                      |
| 15              | 64QAM      | 1       | 37        | 22.74                       | 22.82                          | 22.75                        |                           |
| 15              | 64QAM      | 1       | 74        | 22.70                       | 22.71                          | 22.72                        |                           |
| 15              | 64QAM      | 36      | 0         | 22.14                       | 22.02                          | 21.86                        | 22.7                      |
| 15              | 64QAM      | 36      | 20        | 22.08                       | 21.98                          | 21.93                        |                           |
| 15              | 64QAM      | 36      | 39        | 22.16                       | 22.03                          | 21.92                        |                           |
| 15              | 64QAM      | 75      | 0         | 22.16                       | 21.95                          | 21.86                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        |                           |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                           |
| 10              | QPSK       | 1       | 0         | 24.91                       | 24.78                          | 24.80                        | 25.7                      |
| 10              | QPSK       | 1       | 25        | 24.81                       | 24.78                          | 24.76                        |                           |
| 10              | QPSK       | 1       | 49        | 24.85                       | 24.71                          | 24.65                        |                           |
| 10              | QPSK       | 25      | 0         | 24.13                       | 23.95                          | 23.83                        |                           |
| 10              | QPSK       | 25      | 12        | 24.04                       | 23.87                          | 23.71                        |                           |
| 10              | QPSK       | 25      | 25        | 24.06                       | 23.98                          | 23.79                        | 24.7                      |
| 10              | QPSK       | 50      | 0         | 23.99                       | 23.96                          | 23.90                        |                           |
| 10              | 16QAM      | 1       | 0         | 24.02                       | 23.97                          | 23.87                        |                           |
| 10              | 16QAM      | 1       | 25        | 23.92                       | 23.83                          | 23.72                        | 24.7                      |
| 10              | 16QAM      | 1       | 49        | 23.88                       | 23.95                          | 23.91                        |                           |
| 10              | 16QAM      | 25      | 0         | 23.08                       | 22.91                          | 22.84                        |                           |
| 10              | 16QAM      | 25      | 12        | 23.04                       | 22.90                          | 22.89                        | 23.7                      |
| 10              | 16QAM      | 25      | 25        | 23.02                       | 22.93                          | 22.89                        |                           |
| 10              | 16QAM      | 50      | 0         | 23.11                       | 22.95                          | 22.77                        |                           |
| 10              | 64QAM      | 1       | 0         | 22.75                       | 22.69                          | 22.69                        | 23.7                      |
| 10              | 64QAM      | 1       | 25        | 22.70                       | 22.77                          | 22.72                        |                           |
| 10              | 64QAM      | 1       | 49        | 22.77                       | 22.78                          | 22.73                        |                           |
| 10              | 64QAM      | 25      | 0         | 22.11                       | 21.96                          | 21.85                        | 22.7                      |
| 10              | 64QAM      | 25      | 12        | 22.11                       | 21.94                          | 21.85                        |                           |
| 10              | 64QAM      | 25      | 25        | 22.11                       | 21.98                          | 21.80                        |                           |
| 10              | 64QAM      | 50      | 0         | 22.12                       | 21.92                          | 21.84                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        |                           |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                           |
| 5               | QPSK       | 1       | 0         | 24.90                       | 24.92                          | 24.77                        | 25.7                      |
| 5               | QPSK       | 1       | 12        | 24.93                       | 24.92                          | 24.78                        |                           |
| 5               | QPSK       | 1       | 24        | 24.91                       | 24.92                          | 24.76                        |                           |
| 5               | QPSK       | 12      | 0         | 24.16                       | 23.96                          | 23.94                        |                           |
| 5               | QPSK       | 12      | 7         | 24.13                       | 24.04                          | 23.94                        |                           |
| 5               | QPSK       | 12      | 13        | 24.09                       | 24.02                          | 23.96                        | 24.7                      |
| 5               | QPSK       | 25      | 0         | 24.17                       | 24.04                          | 23.92                        |                           |
| 5               | 16QAM      | 1       | 0         | 24.23                       | 24.02                          | 23.93                        |                           |
| 5               | 16QAM      | 1       | 12        | 24.22                       | 24.10                          | 23.95                        | 24.7                      |
| 5               | 16QAM      | 1       | 24        | 24.19                       | 24.14                          | 24.05                        |                           |
| 5               | 16QAM      | 12      | 0         | 23.14                       | 22.96                          | 22.88                        |                           |
| 5               | 16QAM      | 12      | 7         | 23.13                       | 23.13                          | 22.93                        | 23.7                      |
| 5               | 16QAM      | 12      | 13        | 23.12                       | 23.07                          | 22.90                        |                           |
| 5               | 16QAM      | 25      | 0         | 23.12                       | 22.99                          | 22.99                        |                           |
| 5               | 64QAM      | 1       | 0         | 22.92                       | 22.80                          | 22.74                        | 23.7                      |
| 5               | 64QAM      | 1       | 12        | 22.93                       | 22.87                          | 22.72                        |                           |
| 5               | 64QAM      | 1       | 24        | 22.92                       | 22.85                          | 22.78                        |                           |
| 5               | 64QAM      | 12      | 0         | 22.17                       | 22.04                          | 22.00                        | 22.7                      |
| 5               | 64QAM      | 12      | 7         | 22.21                       | 22.07                          | 22.02                        |                           |
| 5               | 64QAM      | 12      | 13        | 22.17                       | 22.10                          | 21.97                        |                           |
| 5               | 64QAM      | 25      | 0         | 22.24                       | 22.04                          | 22.00                        |                           |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ant 2           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 24.36               | 24.32                      | 24.31                  | 24.29                       | 24.12                | 25.7                |  |
| 20              | QPSK       | 1       | 49        | 24.33               | 24.31                      | 24.18                  | 24.57                       | 24.42                |                     |  |
| 20              | QPSK       | 1       | 99        | 24.33               | 24.30                      | 24.25                  | 24.12                       | 24.27                |                     |  |
| 20              | QPSK       | 50      | 0         | 23.53               | 23.47                      | 23.28                  | 23.52                       | 23.42                | 24.7                |  |
| 20              | QPSK       | 50      | 24        | 23.54               | 23.48                      | 23.35                  | 23.57                       | 23.55                |                     |  |
| 20              | QPSK       | 50      | 50        | 23.48               | 23.44                      | 23.34                  | 23.51                       | 23.50                |                     |  |
| 20              | QPSK       | 100     | 0         | 23.52               | 23.48                      | 23.36                  | 23.53                       | 23.44                | 24.7                |  |
| 20              | 16QAM      | 1       | 0         | 23.52               | 23.45                      | 23.45                  | 23.44                       | 23.23                |                     |  |
| 20              | 16QAM      | 1       | 49        | 23.45               | 23.43                      | 23.32                  | 23.65                       | 23.52                |                     |  |
| 20              | 16QAM      | 1       | 99        | 23.47               | 23.47                      | 23.35                  | 23.26                       | 23.35                | 23.7                |  |
| 20              | 16QAM      | 50      | 0         | 22.56               | 22.48                      | 22.33                  | 22.56                       | 22.45                |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.56               | 22.51                      | 22.41                  | 22.59                       | 22.54                |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.52               | 22.46                      | 22.36                  | 22.52                       | 22.53                | 23.7                |  |
| 20              | 16QAM      | 100     | 0         | 22.54               | 22.50                      | 22.39                  | 22.49                       | 22.47                |                     |  |
| 20              | 64QAM      | 1       | 0         | 22.26               | 22.14                      | 22.13                  | 22.10                       | 21.89                |                     |  |
| 20              | 64QAM      | 1       | 49        | 22.19               | 22.22                      | 22.04                  | 22.46                       | 22.27                | 23.7                |  |
| 20              | 64QAM      | 1       | 99        | 22.19               | 22.25                      | 22.08                  | 22.02                       | 22.03                |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.55               | 21.50                      | 21.35                  | 21.55                       | 21.44                |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.57               | 21.51                      | 21.40                  | 21.60                       | 21.56                | 22.7                |  |
| 20              | 64QAM      | 50      | 50        | 21.52               | 21.48                      | 21.38                  | 21.50                       | 21.53                |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.56               | 21.50                      | 21.41                  | 21.51                       | 21.47                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 24.36               | 24.32                      | 24.25                  | 24.42                       | 24.22                | 25.7                |  |
| 15              | QPSK       | 1       | 37        | 24.32               | 24.25                      | 24.18                  | 24.53                       | 24.39                |                     |  |
| 15              | QPSK       | 1       | 74        | 24.34               | 24.36                      | 24.27                  | 24.27                       | 24.35                |                     |  |
| 15              | QPSK       | 36      | 0         | 23.41               | 23.47                      | 23.31                  | 23.53                       | 23.47                | 24.7                |  |
| 15              | QPSK       | 36      | 20        | 23.51               | 23.45                      | 23.37                  | 23.64                       | 23.51                |                     |  |
| 15              | QPSK       | 36      | 39        | 23.46               | 23.44                      | 23.33                  | 23.53                       | 23.47                |                     |  |
| 15              | QPSK       | 75      | 0         | 23.50               | 23.46                      | 23.36                  | 23.58                       | 23.47                | 24.7                |  |
| 15              | 16QAM      | 1       | 0         | 23.53               | 23.48                      | 23.43                  | 23.56                       | 23.36                |                     |  |
| 15              | 16QAM      | 1       | 37        | 23.41               | 23.39                      | 23.25                  | 23.65                       | 23.52                |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.49               | 23.57                      | 23.45                  | 23.46                       | 23.44                | 23.7                |  |
| 15              | 16QAM      | 36      | 0         | 22.40               | 22.46                      | 22.27                  | 22.48                       | 22.40                |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.47               | 22.45                      | 22.33                  | 22.60                       | 22.48                |                     |  |
| 15              | 16QAM      | 36      | 39        | 22.45               | 22.42                      | 22.31                  | 22.53                       | 22.46                | 23.7                |  |
| 15              | 16QAM      | 75      | 0         | 22.52               | 22.48                      | 22.38                  | 22.59                       | 22.49                |                     |  |
| 15              | 64QAM      | 1       | 0         | 22.24               | 22.18                      | 22.07                  | 22.26                       | 22.05                |                     |  |
| 15              | 64QAM      | 1       | 37        | 22.22               | 22.20                      | 22.07                  | 22.42                       | 22.27                | 23.7                |  |
| 15              | 64QAM      | 1       | 74        | 22.17               | 22.34                      | 22.15                  | 22.21                       | 22.16                |                     |  |
| 15              | 64QAM      | 36      | 0         | 21.44               | 21.49                      | 21.34                  | 21.56                       | 21.47                |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.54               | 21.47                      | 21.38                  | 21.65                       | 21.57                | 22.7                |  |
| 15              | 64QAM      | 36      | 39        | 21.48               | 21.48                      | 21.36                  | 21.57                       | 21.51                |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.54               | 21.48                      | 21.39                  | 21.61                       | 21.51                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 24.25               | 24.32                      | 24.17                  | 24.41                       | 24.12                | 25.7                |  |
| 10              | QPSK       | 1       | 25        | 24.24               | 24.24                      | 24.09                  | 24.48                       | 24.33                |                     |  |
| 10              | QPSK       | 1       | 49        | 24.29               | 24.33                      | 24.20                  | 24.21                       | 24.31                |                     |  |
| 10              | QPSK       | 25      | 0         | 23.38               | 23.37                      | 23.21                  | 23.49                       | 23.39                | 24.7                |  |
| 10              | QPSK       | 25      | 12        | 23.42               | 23.35                      | 23.29                  | 23.57                       | 23.47                |                     |  |
| 10              | QPSK       | 25      | 25        | 23.39               | 23.43                      | 23.27                  | 23.48                       | 23.39                |                     |  |
| 10              | QPSK       | 50      | 0         | 23.48               | 23.43                      | 23.35                  | 23.56                       | 23.41                | 24.7                |  |
| 10              | 16QAM      | 1       | 0         | 23.45               | 23.42                      | 23.33                  | 23.56                       | 23.32                |                     |  |
| 10              | 16QAM      | 1       | 25        | 23.37               | 23.29                      | 23.23                  | 23.64                       | 23.48                |                     |  |
| 10              | 16QAM      | 1       | 49        | 23.47               | 23.47                      | 23.43                  | 23.40                       | 23.41                | 23.7                |  |
| 10              | 16QAM      | 25      | 0         | 22.35               | 22.49                      | 22.21                  | 22.47                       | 22.39                |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.45               | 22.37                      | 22.21                  | 22.52                       | 22.44                |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.39               | 22.40                      | 22.28                  | 22.48                       | 22.44                | 23.7                |  |
| 10              | 16QAM      | 50      | 0         | 22.46               | 22.44                      | 22.28                  | 22.57                       | 22.47                |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.18               | 22.09                      | 22.05                  | 22.19                       | 22.05                |                     |  |
| 10              | 64QAM      | 1       | 25        | 22.12               | 22.20                      | 22.03                  | 22.37                       | 22.24                | 23.7                |  |
| 10              | 64QAM      | 1       | 49        | 22.06               | 22.30                      | 22.07                  | 22.17                       | 22.12                |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.37               | 21.47                      | 21.24                  | 21.55                       | 21.40                |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.47               | 21.38                      | 21.37                  | 21.63                       | 21.47                | 22.7                |  |
| 10              | 64QAM      | 25      | 25        | 21.43               | 21.44                      | 21.26                  | 21.49                       | 21.46                |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.50               | 21.43                      | 21.35                  | 21.58                       | 21.51                |                     |  |
| Channel         |            |         |           | 39675               | 40143                      | 40620                  | 41053                       | 41493                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 24.48               | 24.39                      | 24.27                  | 24.54                       | 24.46                | 25.7                |  |
| 5               | QPSK       | 1       | 12        | 24.46               | 24.39                      | 24.32                  | 24.56                       | 24.43                |                     |  |
| 5               | QPSK       | 1       | 24        | 24.39               | 24.38                      | 24.25                  | 24.52                       | 24.33                |                     |  |
| 5               | QPSK       | 12      | 0         | 23.57               | 23.52                      | 23.43                  | 23.64                       | 23.57                | 24.7                |  |
| 5               | QPSK       | 12      | 7         | 23.57               | 23.52                      | 23.47                  | 23.67                       | 23.56                |                     |  |
| 5               | QPSK       | 12      | 13        | 23.56               | 23.48                      | 23.44                  | 23.68                       | 23.51                |                     |  |
| 5               | QPSK       | 25      | 0         | 23.55               | 23.50                      | 23.42                  | 23.63                       | 23.53                | 24.7                |  |
| 5               | 16QAM      | 1       | 0         | 23.60               | 23.53                      | 23.37                  | 23.66                       | 23.59                |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.61               | 23.60                      | 23.51                  | 23.73                       | 23.68                |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.61               | 23.55                      | 23.49                  | 23.68                       | 23.54                | 23.7                |  |
| 5               | 16QAM      | 12      | 0         | 22.55               | 22.49                      | 22.38                  | 22.64                       | 22.52                |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.55               | 22.52                      | 22.43                  | 22.66                       | 22.57                |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.53               | 22.50                      | 22.40                  | 22.65                       | 22.52                | 23.7                |  |
| 5               | 16QAM      | 25      | 0         | 22.35               | 22.35                      | 22.25                  | 22.65                       | 22.58                |                     |  |
| 5               | 16QAM      | 25      | 0         | 22.18               | 22.38                      | 22.18                  | 22.41                       | 22.30                |                     |  |
| 5               | 64QAM      | 1       | 12        | 22.38               | 22.36                      | 22.20                  | 22.47                       | 22.28                | 23.7                |  |
| 5               | 64QAM      | 1       | 24        | 22.38               | 22.36                      | 22.23                  | 22.46                       | 22.23                |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.61               | 21.53                      | 21.50                  | 21.67                       | 21.57                |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.63               | 21.58                      | 21.50                  | 21.70                       | 21.61                | 22.7                |  |
| 5               | 64QAM      | 12      | 13        | 21.58               | 21.57                      | 21.47                  | 21.73                       | 21.54                |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.61               | 21.56                      | 21.46                  | 21.69                       | 21.60                |                     |  |



| Band 41 HPUE    |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ant 2           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 25.85               | 25.94                      | 26.04                  | 26.10                       | 25.81                | 27.5                |  |
| 20              | QPSK       | 1       | 49        | 26.01               | 26.04                      | 26.01                  | 26.39                       | 26.18                |                     |  |
| 20              | QPSK       | 1       | 99        | 25.92               | 25.97                      | 25.99                  | 25.89                       | 25.96                |                     |  |
| 20              | QPSK       | 50      | 0         | 25.19               | 25.21                      | 25.15                  | 25.40                       | 25.22                | 26.5                |  |
| 20              | QPSK       | 50      | 24        | 25.21               | 25.24                      | 25.21                  | 25.45                       | 25.34                |                     |  |
| 20              | QPSK       | 50      | 50        | 25.18               | 25.21                      | 25.19                  | 25.34                       | 25.29                |                     |  |
| 20              | QPSK       | 100     | 0         | 25.22               | 25.22                      | 25.20                  | 25.35                       | 25.24                | 25.5                |  |
| 20              | 16QAM      | 1       | 0         | 25.26               | 25.37                      | 25.40                  | 25.48                       | 25.12                |                     |  |
| 20              | 16QAM      | 1       | 49        | 25.27               | 25.32                      | 25.26                  | 25.69                       | 25.49                |                     |  |
| 20              | 16QAM      | 1       | 99        | 25.31               | 25.32                      | 25.32                  | 25.23                       | 25.28                | 24.5                |  |
| 20              | 16QAM      | 50      | 0         | 24.24               | 24.26                      | 24.18                  | 24.43                       | 24.24                |                     |  |
| 20              | 16QAM      | 50      | 24        | 24.24               | 24.29                      | 24.22                  | 24.50                       | 24.36                |                     |  |
| 20              | 16QAM      | 50      | 50        | 24.21               | 24.26                      | 24.21                  | 24.40                       | 24.30                | 25.5                |  |
| 20              | 16QAM      | 100     | 0         | 24.22               | 24.25                      | 24.22                  | 24.38                       | 24.27                |                     |  |
| 20              | 64QAM      | 1       | 0         | 24.15               | 24.12                      | 24.20                  | 24.26                       | 24.00                |                     |  |
| 20              | 64QAM      | 1       | 49        | 24.10               | 24.16                      | 24.13                  | 24.58                       | 24.38                | 24.5                |  |
| 20              | 64QAM      | 1       | 99        | 24.13               | 24.20                      | 24.17                  | 24.13                       | 24.18                |                     |  |
| 20              | 64QAM      | 50      | 0         | 23.26               | 23.27                      | 23.18                  | 23.45                       | 23.24                |                     |  |
| 20              | 64QAM      | 50      | 24        | 23.27               | 23.28                      | 23.27                  | 23.49                       | 23.37                | 25.5                |  |
| 20              | 64QAM      | 50      | 50        | 23.21               | 23.27                      | 23.23                  | 23.39                       | 23.32                |                     |  |
| 20              | 64QAM      | 100     | 0         | 23.26               | 23.26                      | 23.23                  | 23.38                       | 23.25                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 25.87               | 26.01                      | 25.98                  | 26.26                       | 25.97                | 27.5                |  |
| 15              | QPSK       | 1       | 37        | 26.01               | 25.97                      | 25.98                  | 26.35                       | 26.18                |                     |  |
| 15              | QPSK       | 1       | 74        | 25.97               | 26.08                      | 26.03                  | 26.12                       | 26.10                |                     |  |
| 15              | QPSK       | 36      | 0         | 25.05               | 25.18                      | 25.09                  | 25.40                       | 25.23                | 26.5                |  |
| 15              | QPSK       | 36      | 20        | 25.13               | 25.17                      | 25.13                  | 25.46                       | 25.29                |                     |  |
| 15              | QPSK       | 36      | 39        | 25.12               | 25.17                      | 25.10                  | 25.36                       | 25.26                |                     |  |
| 15              | QPSK       | 75      | 0         | 25.16               | 25.17                      | 25.14                  | 25.42                       | 25.25                | 26.5                |  |
| 15              | 16QAM      | 1       | 0         | 25.29               | 25.27                      | 25.23                  | 25.56                       | 25.26                |                     |  |
| 15              | 16QAM      | 1       | 37        | 25.21               | 25.21                      | 25.19                  | 25.63                       | 25.44                |                     |  |
| 15              | 16QAM      | 1       | 74        | 25.25               | 25.34                      | 25.29                  | 25.45                       | 25.32                | 25.5                |  |
| 15              | 16QAM      | 36      | 0         | 24.06               | 24.17                      | 24.05                  | 24.35                       | 24.20                |                     |  |
| 15              | 16QAM      | 36      | 20        | 24.13               | 24.15                      | 24.11                  | 24.47                       | 24.26                |                     |  |
| 15              | 16QAM      | 36      | 39        | 24.09               | 24.14                      | 24.09                  | 24.37                       | 24.23                | 25.5                |  |
| 15              | 16QAM      | 75      | 0         | 24.15               | 24.19                      | 24.15                  | 24.45                       | 24.26                |                     |  |
| 15              | 64QAM      | 1       | 0         | 24.10               | 24.09                      | 24.04                  | 24.37                       | 24.09                |                     |  |
| 15              | 64QAM      | 1       | 37        | 24.06               | 24.10                      | 24.06                  | 24.51                       | 24.29                | 24.5                |  |
| 15              | 64QAM      | 1       | 74        | 24.09               | 24.24                      | 24.14                  | 24.31                       | 24.21                |                     |  |
| 15              | 64QAM      | 36      | 0         | 23.08               | 23.22                      | 23.10                  | 23.40                       | 23.26                |                     |  |
| 15              | 64QAM      | 36      | 20        | 23.15               | 23.20                      | 23.15                  | 23.51                       | 23.34                | 25.5                |  |
| 15              | 64QAM      | 36      | 39        | 23.13               | 23.18                      | 23.14                  | 23.37                       | 23.27                |                     |  |
| 15              | 64QAM      | 75      | 0         | 23.16               | 23.19                      | 23.16                  | 23.45                       | 23.27                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 25.92               | 25.92                      | 25.81                  | 26.20                       | 26.11                | 27.5                |  |
| 10              | QPSK       | 1       | 25        | 25.92               | 25.94                      | 26.00                  | 26.30                       | 26.13                |                     |  |
| 10              | QPSK       | 1       | 49        | 25.97               | 25.96                      | 25.90                  | 26.26                       | 26.00                |                     |  |
| 10              | QPSK       | 25      | 0         | 25.10               | 25.11                      | 25.09                  | 25.41                       | 25.24                | 26.5                |  |
| 10              | QPSK       | 25      | 12        | 25.16               | 25.13                      | 25.12                  | 25.41                       | 25.26                |                     |  |
| 10              | QPSK       | 25      | 25        | 25.10               | 25.19                      | 25.11                  | 25.49                       | 25.22                |                     |  |
| 10              | QPSK       | 50      | 0         | 25.15               | 25.18                      | 25.16                  | 25.45                       | 25.26                | 26.5                |  |
| 10              | 16QAM      | 1       | 0         | 25.29               | 25.26                      | 25.20                  | 25.53                       | 25.38                |                     |  |
| 10              | 16QAM      | 1       | 25        | 25.26               | 25.26                      | 25.35                  | 25.67                       | 25.40                |                     |  |
| 10              | 16QAM      | 1       | 49        | 25.32               | 25.29                      | 25.25                  | 25.57                       | 25.40                | 25.5                |  |
| 10              | 16QAM      | 25      | 0         | 24.20               | 24.10                      | 24.13                  | 24.46                       | 24.35                |                     |  |
| 10              | 16QAM      | 25      | 12        | 24.25               | 24.19                      | 24.20                  | 24.45                       | 24.28                |                     |  |
| 10              | 16QAM      | 25      | 25        | 24.15               | 24.19                      | 24.10                  | 24.47                       | 24.21                | 24.5                |  |
| 10              | 16QAM      | 50      | 0         | 24.16               | 24.19                      | 24.12                  | 24.46                       | 24.29                |                     |  |
| 10              | 64QAM      | 1       | 0         | 24.20               | 24.16                      | 24.07                  | 24.48                       | 24.27                |                     |  |
| 10              | 64QAM      | 1       | 25        | 24.13               | 24.17                      | 24.17                  | 24.50                       | 24.33                | 25.5                |  |
| 10              | 64QAM      | 1       | 49        | 24.14               | 24.18                      | 24.21                  | 24.47                       | 24.31                |                     |  |
| 10              | 64QAM      | 25      | 0         | 23.21               | 23.18                      | 23.18                  | 23.44                       | 23.25                |                     |  |
| 10              | 64QAM      | 25      | 12        | 23.24               | 23.32                      | 23.24                  | 23.48                       | 23.36                | 24.5                |  |
| 10              | 64QAM      | 25      | 25        | 23.13               | 23.16                      | 23.20                  | 23.52                       | 23.21                |                     |  |
| 10              | 64QAM      | 50      | 0         | 23.18               | 23.23                      | 23.19                  | 23.44                       | 23.27                |                     |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2495.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 26.01               | 26.01                      | 25.91                  | 26.29                       | 26.11                | 27.5                |  |
| 5               | QPSK       | 1       | 12        | 26.02               | 26.03                      | 26.02                  | 26.38                       | 26.14                |                     |  |
| 5               | QPSK       | 1       | 24        | 25.99               | 26.02                      | 25.96                  | 26.31                       | 26.04                |                     |  |
| 5               | QPSK       | 12      | 0         | 25.16               | 25.19                      | 25.16                  | 25.44                       | 25.31                | 26.5                |  |
| 5               | QPSK       | 12      | 7         | 25.19               | 25.23                      | 25.19                  | 25.47                       | 25.27                |                     |  |
| 5               | QPSK       | 12      | 13        | 25.18               | 25.20                      | 25.16                  | 25.52                       | 25.29                |                     |  |
| 5               | QPSK       | 25      | 0         | 25.16               | 25.18                      | 25.18                  | 25.46                       | 25.27                | 26.5                |  |
| 5               | 16QAM      | 1       | 0         | 25.38               | 25.36                      | 25.30                  | 25.61                       | 25.46                |                     |  |
| 5               | 16QAM      | 1       | 12        | 25.33               | 25.34                      | 25.37                  | 25.68                       | 25.45                |                     |  |
| 5               | 16QAM      | 1       | 24        | 25.36               | 25.39                      | 25.35                  | 25.65                       | 25.43                | 25.5                |  |
| 5               | 16QAM      | 12      | 0         | 24.20               | 24.20                      | 24.21                  | 24.51                       | 24.36                |                     |  |
| 5               | 16QAM      | 12      | 7         | 24.27               | 24.24                      | 24.24                  | 24.53                       | 24.32                |                     |  |
| 5               | 16QAM      | 12      | 13        | 24.20               | 24.21                      | 24.18                  | 24.55                       | 24.28                | 24.5                |  |
| 5               | 16QAM      | 25      | 0         | 24.18               | 24.26                      | 24.20                  | 24.49                       | 24.34                |                     |  |
| 5               | 64QAM      | 1       | 0         | 24.26               | 24.24                      | 24.15                  | 24.51                       | 24.37                |                     |  |
| 5               | 64QAM      | 1       | 12        | 24.20               | 24.24                      | 24.23                  | 24.59                       | 24.36                | 25.5                |  |
| 5               | 64QAM      | 1       | 24        | 24.24               | 24.23                      | 24.21                  | 24.54                       | 24.31                |                     |  |
| 5               | 64QAM      | 12      | 0         | 23.23               | 23.28                      | 23.21                  | 23.50                       | 23.35                |                     |  |
| 5               | 64QAM      | 12      | 7         | 23.25               | 23.32                      | 23.27                  | 23.50                       | 23.37                | 24.5                |  |
| 5               | 64QAM      | 12      | 13        | 23.22               | 23.26                      | 23.23                  | 23.54                       | 23.31                |                     |  |
| 5               | 64QAM      | 25      | 0         | 23.20               | 23.29                      | 23.24                  | 23.53                       | 23.37                |                     |  |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|
| Ant 7           |            |         |           |                       |                              |                               |                        |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |
| 20              | QPSK       | 1       | 0         | 24.21                 | 24.24                        | 24.10                         | 24.13                  | 25.2                |  |
| 20              | QPSK       | 1       | 49        | 24.02                 | 24.06                        | 23.89                         | 23.89                  |                     |  |
| 20              | QPSK       | 1       | 99        | 23.99                 | 23.98                        | 23.84                         | 23.82                  |                     |  |
| 20              | QPSK       | 50      | 0         | 23.24                 | 23.27                        | 23.16                         | 23.16                  | 24.2                |  |
| 20              | QPSK       | 50      | 24        | 23.21                 | 23.13                        | 23.07                         | 23.07                  |                     |  |
| 20              | QPSK       | 50      | 50        | 23.05                 | 23.08                        | 22.94                         | 22.94                  |                     |  |
| 20              | QPSK       | 100     | 0         | 23.15                 | 23.18                        | 23.10                         | 23.10                  | 24.2                |  |
| 20              | 16QAM      | 1       | 0         | 23.33                 | 23.38                        | 23.25                         | 23.28                  |                     |  |
| 20              | 16QAM      | 1       | 49        | 23.12                 | 23.15                        | 22.99                         | 22.98                  |                     |  |
| 20              | 16QAM      | 1       | 99        | 23.10                 | 23.09                        | 22.96                         | 22.96                  | 23.2                |  |
| 20              | 16QAM      | 50      | 0         | 22.27                 | 22.28                        | 22.19                         | 22.20                  |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.23                 | 22.17                        | 22.13                         | 22.14                  |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.08                 | 22.11                        | 21.97                         | 21.97                  | 23.2                |  |
| 20              | 16QAM      | 100     | 0         | 22.21                 | 22.14                        | 22.12                         | 22.10                  |                     |  |
| 20              | 64QAM      | 1       | 0         | 22.04                 | 22.12                        | 22.00                         | 22.00                  |                     |  |
| 20              | 64QAM      | 1       | 49        | 21.86                 | 21.87                        | 21.78                         | 21.75                  | 23.2                |  |
| 20              | 64QAM      | 1       | 99        | 21.83                 | 21.79                        | 21.65                         | 21.68                  |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.27                 | 21.30                        | 21.19                         | 21.19                  |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.23                 | 21.17                        | 21.15                         | 21.14                  | 22.2                |  |
| 20              | 64QAM      | 50      | 50        | 21.09                 | 21.11                        | 20.98                         | 20.98                  |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.21                 | 21.17                        | 21.12                         | 21.12                  |                     |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |
| 15              | QPSK       | 1       | 0         | 24.20                 | 24.16                        | 24.05                         | 24.07                  | 25.2                |  |
| 15              | QPSK       | 1       | 37        | 23.95                 | 24.02                        | 23.86                         | 23.84                  |                     |  |
| 15              | QPSK       | 1       | 74        | 23.98                 | 23.92                        | 23.78                         | 23.81                  |                     |  |
| 15              | QPSK       | 36      | 0         | 23.23                 | 23.25                        | 23.06                         | 23.10                  | 24.2                |  |
| 15              | QPSK       | 36      | 20        | 23.14                 | 23.07                        | 23.00                         | 23.04                  |                     |  |
| 15              | QPSK       | 36      | 39        | 23.03                 | 23.04                        | 22.91                         | 22.90                  |                     |  |
| 15              | QPSK       | 75      | 0         | 23.09                 | 23.07                        | 23.07                         | 23.04                  | 24.2                |  |
| 15              | 16QAM      | 1       | 0         | 23.29                 | 23.28                        | 23.18                         | 23.24                  |                     |  |
| 15              | 16QAM      | 1       | 37        | 23.08                 | 23.14                        | 22.97                         | 22.92                  |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.06                 | 23.00                        | 22.89                         | 22.91                  | 23.2                |  |
| 15              | 16QAM      | 36      | 0         | 22.18                 | 22.23                        | 22.13                         | 22.13                  |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.18                 | 22.10                        | 22.13                         | 22.13                  |                     |  |
| 15              | 16QAM      | 36      | 39        | 22.04                 | 22.01                        | 21.92                         | 21.91                  | 23.2                |  |
| 15              | 16QAM      | 75      | 0         | 22.18                 | 22.14                        | 22.05                         | 22.03                  |                     |  |
| 15              | 64QAM      | 1       | 0         | 21.97                 | 22.09                        | 21.93                         | 21.97                  |                     |  |
| 15              | 64QAM      | 1       | 37        | 21.82                 | 21.86                        | 21.76                         | 21.70                  | 23.2                |  |
| 15              | 64QAM      | 1       | 74        | 21.80                 | 21.77                        | 21.56                         | 21.67                  |                     |  |
| 15              | 64QAM      | 36      | 0         | 21.20                 | 21.30                        | 21.10                         | 21.13                  |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.21                 | 21.09                        | 21.08                         | 21.05                  | 22.2                |  |
| 15              | 64QAM      | 36      | 39        | 21.05                 | 21.09                        | 20.94                         | 20.88                  |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.21                 | 21.10                        | 21.09                         | 21.11                  |                     |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |  |
| 10              | QPSK       | 1       | 0         | 24.11                 | 24.17                        | 24.02                         | 24.12                  | 25.2                |  |
| 10              | QPSK       | 1       | 25        | 24.02                 | 23.99                        | 23.87                         | 23.79                  |                     |  |
| 10              | QPSK       | 1       | 49        | 23.94                 | 23.90                        | 23.75                         | 23.72                  |                     |  |
| 10              | QPSK       | 25      | 0         | 23.14                 | 23.20                        | 23.09                         | 23.13                  | 24.2                |  |
| 10              | QPSK       | 25      | 12        | 23.11                 | 23.06                        | 23.04                         | 22.97                  |                     |  |
| 10              | QPSK       | 25      | 25        | 22.97                 | 23.03                        | 22.86                         | 22.85                  |                     |  |
| 10              | QPSK       | 50      | 0         | 23.17                 | 23.05                        | 23.03                         | 23.05                  | 24.2                |  |
| 10              | 16QAM      | 1       | 0         | 23.27                 | 23.29                        | 23.17                         | 23.28                  |                     |  |
| 10              | 16QAM      | 1       | 25        | 23.06                 | 23.11                        | 22.97                         | 22.90                  |                     |  |
| 10              | 16QAM      | 1       | 49        | 23.00                 | 23.01                        | 22.94                         | 22.86                  | 23.2                |  |
| 10              | 16QAM      | 25      | 0         | 22.21                 | 22.24                        | 22.15                         | 22.11                  |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.18                 | 22.17                        | 22.10                         | 22.14                  |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.08                 | 22.09                        | 21.88                         | 21.88                  | 23.2                |  |
| 10              | 16QAM      | 50      | 0         | 22.12                 | 22.08                        | 22.11                         | 22.00                  |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.02                 | 22.07                        | 21.95                         | 21.90                  |                     |  |
| 10              | 64QAM      | 1       | 25        | 21.86                 | 21.79                        | 21.77                         | 21.71                  | 23.2                |  |
| 10              | 64QAM      | 1       | 49        | 21.80                 | 21.70                        | 21.57                         | 21.55                  |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.18                 | 21.26                        | 21.15                         | 21.10                  |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.23                 | 21.12                        | 21.12                         | 21.08                  | 22.2                |  |
| 10              | 64QAM      | 25      | 25        | 21.06                 | 21.01                        | 20.98                         | 20.94                  |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.13                 | 21.09                        | 21.09                         | 21.05                  |                     |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |  |
| 5               | QPSK       | 1       | 0         | 24.12                 | 24.19                        | 24.10                         | 24.10                  | 25.2                |  |
| 5               | QPSK       | 1       | 12        | 23.99                 | 23.99                        | 23.86                         | 23.79                  |                     |  |
| 5               | QPSK       | 1       | 24        | 23.99                 | 23.96                        | 23.80                         | 23.80                  |                     |  |
| 5               | QPSK       | 12      | 0         | 23.17                 | 23.22                        | 23.09                         | 23.09                  | 24.2                |  |
| 5               | QPSK       | 12      | 7         | 23.11                 | 23.10                        | 23.04                         | 23.00                  |                     |  |
| 5               | QPSK       | 12      | 13        | 22.95                 | 23.05                        | 22.92                         | 22.87                  |                     |  |
| 5               | QPSK       | 25      | 0         | 23.09                 | 23.04                        | 23.02                         | 23.00                  | 24.2                |  |
| 5               | 16QAM      | 1       | 0         | 23.32                 | 23.30                        | 23.19                         | 23.18                  |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.04                 | 23.13                        | 22.97                         | 22.93                  |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.10                 | 23.07                        | 22.94                         | 22.87                  | 23.2                |  |
| 5               | 16QAM      | 12      | 0         | 22.25                 | 22.21                        | 22.09                         | 22.20                  |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.16                 | 22.09                        | 22.03                         | 22.12                  |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.01                 | 22.11                        | 21.96                         | 21.88                  | 23.2                |  |
| 5               | 16QAM      | 25      | 0         | 22.15                 | 22.10                        | 22.04                         | 22.10                  |                     |  |
| 5               | 64QAM      | 1       | 0         | 21.96                 | 22.10                        | 21.91                         | 21.90                  |                     |  |
| 5               | 64QAM      | 1       | 12        | 21.86                 | 21.85                        | 21.75                         | 21.67                  | 23.2                |  |
| 5               | 64QAM      | 1       | 24        | 21.77                 | 21.72                        | 21.57                         | 21.64                  |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.19                 | 21.23                        | 21.19                         | 21.15                  |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.15                 | 21.17                        | 21.11                         | 21.07                  | 22.2                |  |
| 5               | 64QAM      | 12      | 13        | 21.06                 | 21.11                        | 20.89                         | 20.97                  |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.16                 | 21.09                        | 21.02                         | 21.02                  |                     |  |



| Band 38         |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ann 0           |            |         |           |                             |                                |                              |                           |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37850                       | 38000                          | 38150                        |                           |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                           |
| 20              | QPSK       | 1       | 0         | 24.16                       | 24.06                          | 24.03                        | 25.7                      |
| 20              | QPSK       | 1       | 49        | 24.08                       | 24.02                          | 23.96                        |                           |
| 20              | QPSK       | 1       | 99        | 24.06                       | 23.99                          | 23.92                        |                           |
| 20              | QPSK       | 50      | 0         | 23.25                       | 23.14                          | 23.06                        |                           |
| 20              | QPSK       | 50      | 24        | 23.26                       | 23.15                          | 23.11                        |                           |
| 20              | QPSK       | 50      | 50        | 23.20                       | 23.14                          | 23.07                        | 24.7                      |
| 20              | QPSK       | 100     | 0         | 23.23                       | 23.10                          | 23.11                        |                           |
| 20              | 16QAM      | 1       | 0         | 23.23                       | 23.16                          | 23.06                        |                           |
| 20              | 16QAM      | 1       | 49        | 23.16                       | 23.12                          | 23.03                        | 24.7                      |
| 20              | 16QAM      | 1       | 99        | 23.14                       | 23.12                          | 23.01                        |                           |
| 20              | 16QAM      | 50      | 0         | 22.29                       | 22.16                          | 22.07                        |                           |
| 20              | 16QAM      | 50      | 24        | 22.25                       | 22.14                          | 22.13                        | 23.7                      |
| 20              | 16QAM      | 50      | 50        | 22.24                       | 22.17                          | 22.09                        |                           |
| 20              | 16QAM      | 100     | 0         | 22.25                       | 22.13                          | 22.11                        |                           |
| 20              | 64QAM      | 1       | 0         | 21.95                       | 21.88                          | 21.77                        | 23.7                      |
| 20              | 64QAM      | 1       | 49        | 21.90                       | 21.84                          | 21.75                        |                           |
| 20              | 64QAM      | 1       | 99        | 21.88                       | 21.83                          | 21.72                        |                           |
| 20              | 64QAM      | 50      | 0         | 21.30                       | 21.18                          | 21.09                        | 22.7                      |
| 20              | 64QAM      | 50      | 24        | 21.27                       | 21.13                          | 21.14                        |                           |
| 20              | 64QAM      | 50      | 50        | 21.26                       | 21.19                          | 21.10                        |                           |
| 20              | 64QAM      | 100     | 0         | 21.26                       | 21.13                          | 21.12                        |                           |
| Channel         |            |         |           | 37825                       | 38000                          | 38175                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                           |
| 15              | QPSK       | 1       | 0         | 24.09                       | 24.04                          | 23.96                        | 25.7                      |
| 15              | QPSK       | 1       | 37        | 24.03                       | 24.01                          | 23.91                        |                           |
| 15              | QPSK       | 1       | 74        | 24.07                       | 24.02                          | 23.92                        |                           |
| 15              | QPSK       | 36      | 0         | 23.25                       | 23.12                          | 23.03                        |                           |
| 15              | QPSK       | 36      | 20        | 23.24                       | 23.08                          | 23.01                        |                           |
| 15              | QPSK       | 36      | 39        | 23.19                       | 23.15                          | 23.04                        | 24.7                      |
| 15              | QPSK       | 75      | 0         | 23.21                       | 23.08                          | 23.02                        |                           |
| 15              | 16QAM      | 1       | 0         | 23.23                       | 23.17                          | 23.10                        |                           |
| 15              | 16QAM      | 1       | 37        | 23.06                       | 23.03                          | 22.98                        | 24.7                      |
| 15              | 16QAM      | 1       | 74        | 23.19                       | 23.14                          | 23.06                        |                           |
| 15              | 16QAM      | 36      | 0         | 22.22                       | 22.10                          | 22.02                        |                           |
| 15              | 16QAM      | 36      | 20        | 22.20                       | 22.05                          | 21.96                        | 23.7                      |
| 15              | 16QAM      | 36      | 39        | 22.16                       | 22.11                          | 22.02                        |                           |
| 15              | 16QAM      | 75      | 0         | 22.25                       | 22.11                          | 22.03                        |                           |
| 15              | 64QAM      | 1       | 0         | 21.88                       | 21.84                          | 21.73                        | 23.7                      |
| 15              | 64QAM      | 1       | 37        | 21.94                       | 21.84                          | 21.77                        |                           |
| 15              | 64QAM      | 1       | 74        | 21.89                       | 21.83                          | 21.73                        |                           |
| 15              | 64QAM      | 36      | 0         | 21.26                       | 21.14                          | 21.07                        | 22.7                      |
| 15              | 64QAM      | 36      | 20        | 21.24                       | 21.10                          | 21.00                        |                           |
| 15              | 64QAM      | 36      | 39        | 21.25                       | 21.17                          | 21.06                        |                           |
| 15              | 64QAM      | 75      | 0         | 21.25                       | 21.12                          | 21.03                        |                           |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                           |
| 10              | QPSK       | 1       | 0         | 24.09                       | 23.99                          | 23.91                        | 25.7                      |
| 10              | QPSK       | 1       | 25        | 24.00                       | 23.96                          | 23.91                        |                           |
| 10              | QPSK       | 1       | 49        | 24.03                       | 24.01                          | 23.91                        |                           |
| 10              | QPSK       | 25      | 0         | 23.15                       | 23.12                          | 23.01                        |                           |
| 10              | QPSK       | 25      | 12        | 23.19                       | 23.07                          | 22.99                        |                           |
| 10              | QPSK       | 25      | 25        | 23.10                       | 23.13                          | 22.99                        | 24.7                      |
| 10              | QPSK       | 50      | 0         | 23.11                       | 23.03                          | 22.95                        |                           |
| 10              | 16QAM      | 1       | 0         | 23.13                       | 23.08                          | 23.03                        |                           |
| 10              | 16QAM      | 1       | 25        | 23.04                       | 22.97                          | 22.94                        | 24.7                      |
| 10              | 16QAM      | 1       | 49        | 23.10                       | 23.08                          | 23.02                        |                           |
| 10              | 16QAM      | 25      | 0         | 22.17                       | 22.00                          | 21.97                        |                           |
| 10              | 16QAM      | 25      | 12        | 22.13                       | 21.96                          | 21.91                        | 23.7                      |
| 10              | 16QAM      | 25      | 25        | 22.10                       | 22.06                          | 22.00                        |                           |
| 10              | 16QAM      | 50      | 0         | 22.20                       | 22.02                          | 21.99                        |                           |
| 10              | 64QAM      | 1       | 0         | 21.86                       | 21.76                          | 21.70                        | 23.7                      |
| 10              | 64QAM      | 1       | 25        | 21.92                       | 21.79                          | 21.70                        |                           |
| 10              | 64QAM      | 1       | 49        | 21.83                       | 21.75                          | 21.70                        |                           |
| 10              | 64QAM      | 25      | 0         | 21.19                       | 21.12                          | 21.05                        | 22.7                      |
| 10              | 64QAM      | 25      | 12        | 21.18                       | 21.08                          | 21.00                        |                           |
| 10              | 64QAM      | 25      | 25        | 21.19                       | 21.11                          | 21.01                        |                           |
| 10              | 64QAM      | 50      | 0         | 21.17                       | 21.04                          | 21.01                        |                           |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                           |
| 5               | QPSK       | 1       | 0         | 24.15                       | 24.05                          | 23.94                        | 25.7                      |
| 5               | QPSK       | 1       | 12        | 24.09                       | 24.02                          | 23.94                        |                           |
| 5               | QPSK       | 1       | 24        | 24.10                       | 23.99                          | 23.95                        |                           |
| 5               | QPSK       | 12      | 0         | 23.21                       | 23.11                          | 23.08                        |                           |
| 5               | QPSK       | 12      | 7         | 23.26                       | 23.20                          | 23.06                        |                           |
| 5               | QPSK       | 12      | 13        | 23.20                       | 23.18                          | 23.05                        | 24.7                      |
| 5               | QPSK       | 25      | 0         | 23.25                       | 23.09                          | 23.06                        |                           |
| 5               | 16QAM      | 1       | 0         | 23.28                       | 23.17                          | 23.11                        |                           |
| 5               | 16QAM      | 1       | 12        | 23.28                       | 23.26                          | 23.18                        | 24.7                      |
| 5               | 16QAM      | 1       | 24        | 23.28                       | 23.22                          | 23.12                        |                           |
| 5               | 16QAM      | 12      | 0         | 22.21                       | 22.09                          | 22.05                        |                           |
| 5               | 16QAM      | 12      | 7         | 22.23                       | 22.13                          | 22.06                        | 23.7                      |
| 5               | 16QAM      | 12      | 13        | 22.18                       | 22.13                          | 22.02                        |                           |
| 5               | 16QAM      | 25      | 0         | 22.24                       | 22.14                          | 22.10                        |                           |
| 5               | 64QAM      | 1       | 0         | 21.80                       | 21.74                          | 21.70                        | 23.7                      |
| 5               | 64QAM      | 1       | 12        | 21.90                       | 21.84                          | 21.76                        |                           |
| 5               | 64QAM      | 1       | 24        | 21.81                       | 21.82                          | 21.70                        |                           |
| 5               | 64QAM      | 12      | 0         | 21.27                       | 21.07                          | 20.97                        | 22.7                      |
| 5               | 64QAM      | 12      | 7         | 21.20                       | 21.02                          | 20.91                        |                           |
| 5               | 64QAM      | 12      | 13        | 21.19                       | 21.14                          | 21.05                        |                           |
| 5               | 64QAM      | 25      | 0         | 21.19                       | 21.02                          | 20.97                        |                           |



| Band 41         |            |         |           |                     |                            |                  |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------|-----------------------------|----------------------|---------------------|--|
| Ann 0           |            |         |           |                     |                            |                  |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Mid / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620            | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593             | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 23.94               | 23.81                      | 23.87            | 23.85                       | 23.52                | 25.7                |  |
| 20              | QPSK       | 1       | 49        | 23.85               | 23.79                      | 23.76            | 24.08                       | 23.88                |                     |  |
| 20              | QPSK       | 1       | 99        | 23.84               | 23.79                      | 23.82            | 23.58                       | 23.75                |                     |  |
| 20              | QPSK       | 50      | 0         | 23.05               | 22.96                      | 22.85            | 23.02                       | 22.86                | 24.7                |  |
| 20              | QPSK       | 50      | 24        | 23.04               | 22.97                      | 22.93            | 23.06                       | 22.98                |                     |  |
| 20              | QPSK       | 50      | 50        | 22.88               | 22.94                      | 22.90            | 22.98                       | 22.93                |                     |  |
| 20              | QPSK       | 100     | 0         | 23.04               | 22.96                      | 22.91            | 23.05                       | 22.89                | 24.7                |  |
| 20              | 16QAM      | 1       | 0         | 23.09               | 22.93                      | 22.99            | 22.98                       | 22.93                |                     |  |
| 20              | 16QAM      | 1       | 49        | 22.97               | 22.92                      | 22.87            | 23.18                       | 22.98                |                     |  |
| 20              | 16QAM      | 1       | 99        | 22.97               | 22.97                      | 22.94            | 22.70                       | 22.84                | 23.7                |  |
| 20              | 16QAM      | 50      | 0         | 22.08               | 22.00                      | 21.90            | 22.06                       | 21.87                |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.10               | 22.01                      | 21.96            | 22.08                       | 22.01                |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.03               | 21.98                      | 21.94            | 22.01                       | 21.96                | 23.7                |  |
| 20              | 16QAM      | 100     | 0         | 22.06               | 21.98                      | 21.95            | 21.99                       | 21.91                |                     |  |
| 20              | 64QAM      | 1       | 0         | 21.82               | 21.66                      | 21.68            | 21.59                       | 21.40                |                     |  |
| 20              | 64QAM      | 1       | 49        | 21.73               | 21.71                      | 21.65            | 21.83                       | 21.80                | 23.7                |  |
| 20              | 64QAM      | 1       | 99        | 21.74               | 21.75                      | 21.66            | 21.43                       | 21.61                |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.10               | 21.02                      | 20.92            | 21.07                       | 20.90                |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.11               | 21.01                      | 20.97            | 21.12                       | 20.99                | 22.7                |  |
| 20              | 64QAM      | 50      | 50        | 21.02               | 20.98                      | 20.95            | 21.03                       | 20.96                |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.07               | 21.01                      | 20.98            | 21.01                       | 20.93                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620            | 41068                       | 41515                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593             | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 23.90               | 23.82                      | 23.79            | 23.94                       | 23.70                | 25.7                |  |
| 15              | QPSK       | 1       | 37        | 23.85               | 23.76                      | 23.72            | 24.02                       | 23.86                |                     |  |
| 15              | QPSK       | 1       | 74        | 23.84               | 23.86                      | 23.84            | 23.77                       | 23.82                |                     |  |
| 15              | QPSK       | 36      | 0         | 22.83               | 22.95                      | 22.85            | 23.06                       | 22.90                | 24.7                |  |
| 15              | QPSK       | 36      | 20        | 23.02               | 22.91                      | 22.91            | 23.12                       | 22.99                |                     |  |
| 15              | QPSK       | 36      | 39        | 22.88               | 22.94                      | 22.89            | 23.03                       | 22.95                |                     |  |
| 15              | QPSK       | 75      | 0         | 23.03               | 22.95                      | 22.93            | 23.07                       | 22.95                | 24.7                |  |
| 15              | 16QAM      | 1       | 0         | 23.09               | 22.99                      | 22.98            | 23.10                       | 22.78                |                     |  |
| 15              | 16QAM      | 1       | 37        | 22.93               | 22.90                      | 22.82            | 23.13                       | 22.96                |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.00               | 23.05                      | 23.00            | 22.94                       | 22.95                | 23.7                |  |
| 15              | 16QAM      | 36      | 0         | 21.95               | 21.93                      | 21.82            | 22.01                       | 21.85                |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.03               | 21.90                      | 21.89            | 22.09                       | 21.95                |                     |  |
| 15              | 16QAM      | 36      | 39        | 21.97               | 21.91                      | 21.86            | 22.00                       | 21.92                | 23.7                |  |
| 15              | 16QAM      | 75      | 0         | 22.05               | 21.97                      | 21.93            | 22.09                       | 21.96                |                     |  |
| 15              | 64QAM      | 1       | 0         | 21.79               | 21.79                      | 21.73            | 21.76                       | 21.71                |                     |  |
| 15              | 64QAM      | 1       | 37        | 21.74               | 21.72                      | 21.70            | 21.90                       | 21.73                | 23.7                |  |
| 15              | 64QAM      | 1       | 74        | 21.74               | 21.86                      | 21.71            | 21.75                       | 21.78                |                     |  |
| 15              | 64QAM      | 36      | 0         | 20.87               | 20.99                      | 20.90            | 21.07                       | 20.82                |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.02               | 20.97                      | 20.93            | 21.14                       | 21.01                | 22.7                |  |
| 15              | 64QAM      | 36      | 39        | 21.01               | 20.97                      | 20.94            | 21.07                       | 20.96                |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.09               | 20.97                      | 20.94            | 21.11                       | 20.95                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620            | 41080                       | 41540                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593             | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 23.88               | 23.75                      | 23.72            | 23.84                       | 23.70                | 25.7                |  |
| 10              | QPSK       | 1       | 25        | 23.83               | 23.70                      | 23.70            | 23.94                       | 23.84                |                     |  |
| 10              | QPSK       | 1       | 49        | 23.75               | 23.78                      | 23.84            | 23.77                       | 23.74                |                     |  |
| 10              | QPSK       | 25      | 0         | 22.81               | 22.91                      | 22.82            | 23.04                       | 22.89                | 24.7                |  |
| 10              | QPSK       | 25      | 12        | 22.82               | 22.81                      | 22.91            | 23.02                       | 22.97                |                     |  |
| 10              | QPSK       | 25      | 25        | 22.89               | 22.86                      | 22.87            | 22.84                       | 22.86                |                     |  |
| 10              | QPSK       | 50      | 0         | 22.94               | 22.85                      | 22.92            | 23.05                       | 22.95                | 24.7                |  |
| 10              | 16QAM      | 1       | 0         | 23.04               | 22.97                      | 22.92            | 23.05                       | 22.70                |                     |  |
| 10              | 16QAM      | 1       | 25        | 22.83               | 22.90                      | 22.72            | 23.12                       | 22.87                |                     |  |
| 10              | 16QAM      | 1       | 49        | 22.83               | 23.00                      | 22.99            | 22.92                       | 22.87                | 23.7                |  |
| 10              | 16QAM      | 25      | 0         | 21.81               | 21.92                      | 21.74            | 21.91                       | 21.85                |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.01               | 21.81                      | 21.85            | 22.06                       | 21.85                |                     |  |
| 10              | 16QAM      | 25      | 25        | 21.94               | 21.89                      | 21.78            | 21.98                       | 21.83                | 23.7                |  |
| 10              | 16QAM      | 50      | 0         | 21.97               | 21.96                      | 21.86            | 22.02                       | 21.91                |                     |  |
| 10              | 64QAM      | 1       | 0         | 21.76               | 21.70                      | 21.74            | 21.79                       | 21.71                |                     |  |
| 10              | 64QAM      | 1       | 25        | 21.72               | 21.77                      | 21.75            | 21.81                       | 21.77                | 23.7                |  |
| 10              | 64QAM      | 1       | 49        | 21.70               | 21.79                      | 21.70            | 21.79                       | 21.70                |                     |  |
| 10              | 64QAM      | 25      | 0         | 20.87               | 20.93                      | 20.80            | 21.07                       | 20.84                |                     |  |
| 10              | 64QAM      | 25      | 12        | 20.99               | 20.88                      | 20.92            | 21.10                       | 20.97                | 22.7                |  |
| 10              | 64QAM      | 25      | 25        | 20.87               | 20.87                      | 20.89            | 21.00                       | 20.92                |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.03               | 20.87                      | 20.84            | 21.08                       | 20.89                |                     |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620            | 41093                       | 41565                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2495.5              | 2545.8                     | 2593             | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 24.04               | 23.87                      | 23.79            | 24.02                       | 23.89                | 25.7                |  |
| 5               | QPSK       | 1       | 12        | 23.95               | 23.87                      | 23.86            | 24.04                       | 23.88                |                     |  |
| 5               | QPSK       | 1       | 24        | 23.88               | 23.85                      | 23.81            | 24.02                       | 23.79                |                     |  |
| 5               | QPSK       | 12      | 0         | 23.09               | 22.98                      | 22.96            | 23.15                       | 23.03                | 24.7                |  |
| 5               | QPSK       | 12      | 7         | 23.09               | 23.01                      | 22.95            | 23.17                       | 23.02                |                     |  |
| 5               | QPSK       | 12      | 13        | 23.07               | 22.96                      | 22.95            | 23.17                       | 23.03                |                     |  |
| 5               | QPSK       | 25      | 0         | 23.08               | 22.98                      | 22.92            | 23.12                       | 22.98                | 24.7                |  |
| 5               | 16QAM      | 1       | 0         | 23.12               | 22.99                      | 22.92            | 23.13                       | 23.02                |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.14               | 23.03                      | 23.04            | 23.26                       | 23.11                |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.14               | 23.00                      | 23.00            | 23.18                       | 23.01                | 23.7                |  |
| 5               | 16QAM      | 12      | 0         | 22.07               | 21.97                      | 21.94            | 22.11                       | 22.03                |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.09               | 22.01                      | 21.97            | 22.13                       | 22.00                |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.06               | 21.98                      | 21.95            | 22.12                       | 21.97                | 23.7                |  |
| 5               | 16QAM      | 25      | 0         | 22.14               | 22.03                      | 21.99            | 22.14                       | 22.02                |                     |  |
| 5               | 64QAM      | 1       | 0         | 21.83               | 21.95                      | 21.88            | 21.91                       | 21.88                |                     |  |
| 5               | 64QAM      | 1       | 12        | 21.86               | 21.84                      | 21.86            | 22.00                       | 21.90                | 23.7                |  |
| 5               | 64QAM      | 1       | 24        | 21.84               | 22.02                      | 21.86            | 21.95                       | 21.88                |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.16               | 21.13                      | 21.04            | 21.27                       | 21.06                |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.14               | 21.10                      | 21.13            | 21.25                       | 21.20                | 22.7                |  |
| 5               | 64QAM      | 12      | 13        | 21.18               | 21.13                      | 21.06            | 21.19                       | 21.11                |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.27               | 21.15                      | 21.08            | 21.21                       | 21.08                |                     |  |



| Band 41 HPUE    |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| Ant 2           |            |         |           |                     |                            |                        |                             |                      |                     |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low-Middle Ch / Freq | Power Middle Ch / Freq | Power High-Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |
| 20              | QPSK       | 1       | 0         | 25.71               | 25.60                      | 25.64                  | 25.74                       | 25.50                | 27.5                |
| 20              | QPSK       | 1       | 49        | 25.74               | 25.66                      | 25.64                  | 26.04                       | 25.86                |                     |
| 20              | QPSK       | 1       | 99        | 25.81               | 25.58                      | 25.61                  | 25.50                       | 25.64                |                     |
| 20              | QPSK       | 50      | 0         | 24.93               | 24.86                      | 24.76                  | 25.02                       | 24.88                | 26.5                |
| 20              | QPSK       | 50      | 24        | 24.94               | 24.85                      | 24.84                  | 25.09                       | 25.00                |                     |
| 20              | QPSK       | 50      | 50        | 24.86               | 24.83                      | 24.82                  | 25.01                       | 24.97                |                     |
| 20              | QPSK       | 100     | 0         | 24.82               | 24.86                      | 24.83                  | 24.95                       | 24.90                | 26.5                |
| 20              | 16QAM      | 1       | 0         | 25.07               | 24.95                      | 25.03                  | 25.13                       | 24.75                |                     |
| 20              | 16QAM      | 1       | 49        | 24.99               | 24.95                      | 24.92                  | 25.34                       | 25.14                |                     |
| 20              | 16QAM      | 1       | 99        | 24.97               | 24.92                      | 24.94                  | 24.82                       | 24.98                | 25.5                |
| 20              | 16QAM      | 50      | 0         | 23.94               | 23.89                      | 23.79                  | 24.07                       | 23.89                |                     |
| 20              | 16QAM      | 50      | 24        | 23.96               | 23.91                      | 23.87                  | 24.11                       | 24.01                |                     |
| 20              | 16QAM      | 50      | 50        | 23.81               | 23.88                      | 23.86                  | 24.01                       | 23.98                | 24.5                |
| 20              | 16QAM      | 100     | 0         | 23.97               | 23.88                      | 23.87                  | 23.98                       | 23.94                |                     |
| 20              | 64QAM      | 1       | 0         | 23.88               | 23.75                      | 23.80                  | 23.88                       | 23.64                |                     |
| 20              | 64QAM      | 1       | 49        | 23.80               | 23.79                      | 23.74                  | 24.20                       | 23.99                | 24.5                |
| 20              | 64QAM      | 1       | 99        | 23.82               | 23.80                      | 23.79                  | 23.70                       | 23.86                |                     |
| 20              | 64QAM      | 50      | 0         | 22.99               | 22.89                      | 22.81                  | 23.09                       | 22.93                |                     |
| 20              | 64QAM      | 50      | 24        | 22.96               | 22.91                      | 22.86                  | 23.10                       | 23.03                | 24.5                |
| 20              | 64QAM      | 50      | 50        | 22.92               | 22.89                      | 22.86                  | 23.05                       | 23.01                |                     |
| 20              | 64QAM      | 100     | 0         | 22.96               | 22.90                      | 22.87                  | 23.01                       | 22.94                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 25.80               | 25.70                      | 25.65                  | 25.91                       | 25.65                | 27.5                |
| 15              | QPSK       | 1       | 37        | 25.76               | 25.64                      | 25.60                  | 26.02                       | 25.84                |                     |
| 15              | QPSK       | 1       | 74        | 25.69               | 25.76                      | 25.72                  | 25.74                       | 25.79                |                     |
| 15              | QPSK       | 36      | 0         | 24.83               | 24.86                      | 24.75                  | 25.05                       | 24.90                | 26.5                |
| 15              | QPSK       | 36      | 20        | 24.91               | 24.82                      | 24.82                  | 25.12                       | 24.99                |                     |
| 15              | QPSK       | 36      | 39        | 24.86               | 24.82                      | 24.80                  | 25.02                       | 24.95                |                     |
| 15              | QPSK       | 75      | 0         | 24.83               | 24.84                      | 24.83                  | 25.08                       | 24.95                | 26.5                |
| 15              | 16QAM      | 1       | 0         | 25.08               | 25.00                      | 24.98                  | 25.21                       | 24.97                |                     |
| 15              | 16QAM      | 1       | 37        | 24.97               | 24.91                      | 24.83                  | 25.28                       | 25.15                |                     |
| 15              | 16QAM      | 1       | 74        | 24.95               | 25.03                      | 24.98                  | 25.06                       | 25.08                | 25.5                |
| 15              | 16QAM      | 36      | 0         | 23.84               | 23.86                      | 23.75                  | 24.04                       | 23.87                |                     |
| 15              | 16QAM      | 36      | 20        | 23.89               | 23.83                      | 23.80                  | 24.12                       | 23.96                |                     |
| 15              | 16QAM      | 36      | 39        | 23.85               | 23.83                      | 23.77                  | 24.02                       | 23.96                | 25.5                |
| 15              | 16QAM      | 75      | 0         | 23.94               | 23.87                      | 23.82                  | 24.10                       | 23.95                |                     |
| 15              | 64QAM      | 1       | 0         | 23.87               | 23.76                      | 23.70                  | 24.04                       | 23.77                |                     |
| 15              | 64QAM      | 1       | 37        | 23.86               | 23.79                      | 23.71                  | 24.19                       | 23.97                | 24.5                |
| 15              | 64QAM      | 1       | 74        | 23.84               | 23.89                      | 23.82                  | 23.90                       | 23.95                |                     |
| 15              | 64QAM      | 36      | 0         | 22.86               | 22.87                      | 22.77                  | 23.06                       | 22.84                |                     |
| 15              | 64QAM      | 36      | 20        | 22.96               | 22.85                      | 22.82                  | 23.16                       | 23.01                | 24.5                |
| 15              | 64QAM      | 36      | 39        | 22.92               | 22.85                      | 22.81                  | 23.04                       | 22.97                |                     |
| 15              | 64QAM      | 75      | 0         | 22.95               | 22.88                      | 22.86                  | 23.10                       | 22.96                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 25.80               | 25.66                      | 25.54                  | 25.82                       | 25.81                | 27.5                |
| 10              | QPSK       | 1       | 25        | 25.72               | 25.61                      | 25.64                  | 25.99                       | 25.85                |                     |
| 10              | QPSK       | 1       | 49        | 25.67               | 25.68                      | 25.58                  | 25.97                       | 25.69                |                     |
| 10              | QPSK       | 25      | 0         | 24.83               | 24.78                      | 24.87                  | 25.13                       | 25.03                | 26.5                |
| 10              | QPSK       | 25      | 12        | 25.00               | 24.86                      | 24.87                  | 25.12                       | 24.99                |                     |
| 10              | QPSK       | 25      | 25        | 24.92               | 24.83                      | 24.79                  | 25.15                       | 24.99                |                     |
| 10              | QPSK       | 50      | 0         | 24.92               | 24.78                      | 24.88                  | 25.11                       | 25.00                | 26.5                |
| 10              | 16QAM      | 1       | 0         | 25.12               | 25.05                      | 24.90                  | 25.26                       | 25.10                |                     |
| 10              | 16QAM      | 1       | 25        | 25.12               | 24.95                      | 24.93                  | 25.25                       | 25.18                |                     |
| 10              | 16QAM      | 1       | 49        | 25.16               | 24.97                      | 25.02                  | 25.30                       | 25.05                | 25.5                |
| 10              | 16QAM      | 25      | 0         | 24.00               | 23.85                      | 23.84                  | 24.11                       | 23.98                |                     |
| 10              | 16QAM      | 25      | 12        | 24.07               | 23.95                      | 23.87                  | 24.13                       | 24.10                |                     |
| 10              | 16QAM      | 25      | 25        | 23.91               | 23.85                      | 23.85                  | 24.12                       | 24.00                | 24.5                |
| 10              | 16QAM      | 50      | 0         | 23.92               | 23.84                      | 23.91                  | 24.17                       | 24.06                |                     |
| 10              | 64QAM      | 1       | 0         | 24.05               | 23.82                      | 23.86                  | 24.20                       | 24.06                |                     |
| 10              | 64QAM      | 1       | 25        | 23.93               | 23.85                      | 23.91                  | 24.20                       | 24.03                | 24.5                |
| 10              | 64QAM      | 1       | 49        | 23.97               | 23.95                      | 23.86                  | 24.15                       | 24.04                |                     |
| 10              | 64QAM      | 25      | 0         | 23.02               | 22.86                      | 22.90                  | 23.12                       | 23.08                |                     |
| 10              | 64QAM      | 25      | 12        | 23.04               | 22.96                      | 22.94                  | 23.14                       | 23.02                | 24.5                |
| 10              | 64QAM      | 25      | 25        | 22.94               | 22.94                      | 22.91                  | 23.21                       | 23.01                |                     |
| 10              | 64QAM      | 50      | 0         | 22.97               | 22.96                      | 22.84                  | 23.10                       | 23.03                |                     |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2495.5              | 2545.8                     | 2593                   | 2640.0                      | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 25.84               | 25.69                      | 25.61                  | 25.94                       | 25.85                | 27.5                |
| 5               | QPSK       | 1       | 12        | 25.82               | 25.68                      | 25.74                  | 26.03                       | 25.87                |                     |
| 5               | QPSK       | 1       | 24        | 25.77               | 25.68                      | 25.66                  | 25.98                       | 25.75                |                     |
| 5               | QPSK       | 12      | 0         | 24.99               | 24.87                      | 24.88                  | 25.18                       | 25.07                | 26.5                |
| 5               | QPSK       | 12      | 7         | 25.00               | 24.91                      | 24.90                  | 25.20                       | 25.06                |                     |
| 5               | QPSK       | 12      | 13        | 24.98               | 24.89                      | 24.87                  | 25.24                       | 25.00                |                     |
| 5               | QPSK       | 25      | 0         | 24.98               | 24.88                      | 24.88                  | 25.14                       | 25.02                | 26.5                |
| 5               | 16QAM      | 1       | 0         | 25.19               | 25.05                      | 24.98                  | 25.29                       | 25.18                |                     |
| 5               | 16QAM      | 1       | 12        | 25.14               | 25.05                      | 25.03                  | 25.35                       | 25.18                |                     |
| 5               | 16QAM      | 1       | 24        | 25.16               | 25.05                      | 25.05                  | 25.31                       | 25.13                | 25.5                |
| 5               | 16QAM      | 12      | 0         | 24.02               | 23.90                      | 23.92                  | 24.20                       | 24.07                |                     |
| 5               | 16QAM      | 12      | 7         | 24.07               | 23.95                      | 23.96                  | 24.23                       | 24.13                |                     |
| 5               | 16QAM      | 12      | 13        | 24.01               | 23.92                      | 23.90                  | 24.21                       | 24.04                | 24.5                |
| 5               | 16QAM      | 25      | 0         | 24.02               | 23.94                      | 23.91                  | 24.20                       | 24.10                |                     |
| 5               | 64QAM      | 1       | 0         | 24.06               | 23.91                      | 23.87                  | 24.20                       | 24.07                |                     |
| 5               | 64QAM      | 1       | 12        | 24.03               | 23.92                      | 23.91                  | 24.25                       | 24.07                | 24.5                |
| 5               | 64QAM      | 1       | 24        | 24.04               | 23.95                      | 23.94                  | 24.22                       | 24.05                |                     |
| 5               | 64QAM      | 12      | 0         | 23.07               | 22.94                      | 22.92                  | 23.22                       | 23.13                |                     |
| 5               | 64QAM      | 12      | 7         | 23.05               | 22.98                      | 22.95                  | 23.24                       | 23.11                | 24.5                |
| 5               | 64QAM      | 12      | 13        | 23.03               | 22.94                      | 22.94                  | 23.26                       | 23.07                |                     |
| 5               | 64QAM      | 25      | 0         | 23.04               | 22.97                      | 22.93                  | 23.20                       | 23.09                |                     |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|--|
| Ant 2           |            |         |           |                       |                              |                               |                        |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56160                         | 56640                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 21.79                 | 21.71                        | 21.58                         | 21.42                  | 22.3                |  |  |
| 20              | QPSK       | 1       | 49        | 21.57                 | 21.45                        | 21.36                         | 21.12                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 21.53                 | 21.43                        | 21.28                         | 21.03                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 20.81                 | 20.67                        | 20.59                         | 20.38                  |                     |  |  |
| 20              | QPSK       | 50      | 24        | 20.78                 | 20.68                        | 20.53                         | 20.31                  | 21.3                |  |  |
| 20              | QPSK       | 50      | 50        | 20.63                 | 20.49                        | 20.36                         | 20.11                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 20.78                 | 20.56                        | 20.49                         | 20.30                  |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 20.92                 | 20.80                        | 20.71                         | 20.54                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 20.65                 | 20.53                        | 20.42                         | 20.22                  | 21.3                |  |  |
| 20              | 16QAM      | 1       | 99        | 20.69                 | 20.53                        | 20.39                         | 20.15                  |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 19.87                 | 19.73                        | 19.62                         | 19.41                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 19.81                 | 19.57                        | 19.54                         | 19.33                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 19.68                 | 19.51                        | 19.39                         | 19.15                  | 20.3                |  |  |
| 20              | 16QAM      | 100     | 0         | 19.80                 | 19.58                        | 19.54                         | 19.33                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 19.63                 | 19.57                        | 19.46                         | 19.27                  |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 19.42                 | 19.31                        | 19.19                         | 18.97                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 19.39                 | 19.24                        | 19.13                         | 18.85                  | 19.3                |  |  |
| 20              | 64QAM      | 50      | 0         | 18.87                 | 18.73                        | 18.63                         | 18.41                  |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 18.82                 | 18.61                        | 18.56                         | 18.33                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 18.69                 | 18.53                        | 18.40                         | 18.15                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 18.81                 | 18.58                        | 18.55                         | 18.31                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 21.67                 | 21.60                        | 21.50                         | 21.28                  | 22.3                |  |  |
| 15              | QPSK       | 1       | 37        | 21.53                 | 21.46                        | 21.30                         | 21.05                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 21.54                 | 21.45                        | 21.31                         | 21.02                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 20.81                 | 20.68                        | 20.54                         | 20.32                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 20.74                 | 20.62                        | 20.49                         | 20.24                  | 21.3                |  |  |
| 15              | QPSK       | 36      | 39        | 20.64                 | 20.49                        | 20.35                         | 20.17                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 20.68                 | 20.64                        | 20.51                         | 20.24                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 20.77                 | 20.76                        | 20.60                         | 20.41                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 20.61                 | 20.51                        | 20.33                         | 20.14                  | 21.3                |  |  |
| 15              | 16QAM      | 1       | 74        | 20.72                 | 20.60                        | 20.46                         | 20.19                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 19.77                 | 19.65                        | 19.53                         | 19.29                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 19.74                 | 19.60                        | 19.45                         | 19.20                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 19.63                 | 19.49                        | 19.32                         | 19.14                  | 20.3                |  |  |
| 15              | 16QAM      | 75      | 0         | 19.71                 | 19.65                        | 19.52                         | 19.24                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 19.58                 | 19.51                        | 19.39                         | 19.12                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 19.42                 | 19.34                        | 19.19                         | 18.96                  | 20.3                |  |  |
| 15              | 64QAM      | 1       | 74        | 19.43                 | 19.29                        | 19.16                         | 18.87                  |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 18.93                 | 18.70                        | 18.57                         | 18.34                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 18.77                 | 18.63                        | 18.50                         | 18.26                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 18.66                 | 18.51                        | 18.37                         | 18.17                  | 19.3                |  |  |
| 15              | 64QAM      | 75      | 0         | 18.72                 | 18.66                        | 18.52                         | 18.26                  |                     |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 3525                  | 3597.5                       | 3642.5                        | 3695                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 21.66                 | 21.62                        | 21.49                         | 21.26                  | 22.3                |  |  |
| 10              | QPSK       | 1       | 25        | 21.45                 | 21.38                        | 21.26                         | 21.05                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 21.51                 | 21.41                        | 21.26                         | 20.95                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 20.75                 | 20.64                        | 20.44                         | 20.31                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 20.67                 | 20.52                        | 20.48                         | 20.15                  | 21.3                |  |  |
| 10              | QPSK       | 25      | 25        | 20.59                 | 20.46                        | 20.33                         | 20.12                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 20.63                 | 20.62                        | 20.42                         | 20.14                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 20.76                 | 20.67                        | 20.51                         | 20.35                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 20.58                 | 20.47                        | 20.33                         | 20.05                  | 21.3                |  |  |
| 10              | 16QAM      | 1       | 49        | 20.72                 | 20.54                        | 20.42                         | 20.11                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 19.70                 | 19.56                        | 19.43                         | 19.29                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 19.64                 | 19.57                        | 19.45                         | 19.14                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 19.62                 | 19.45                        | 19.28                         | 19.11                  | 20.3                |  |  |
| 10              | 16QAM      | 50      | 0         | 19.64                 | 19.59                        | 19.52                         | 19.20                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 19.50                 | 19.51                        | 19.37                         | 19.12                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 19.42                 | 19.31                        | 19.13                         | 18.95                  | 20.3                |  |  |
| 10              | 64QAM      | 1       | 49        | 19.43                 | 19.22                        | 19.11                         | 18.84                  |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 18.81                 | 18.66                        | 18.47                         | 18.27                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 18.77                 | 18.55                        | 18.41                         | 18.22                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 18.56                 | 18.49                        | 18.31                         | 18.15                  | 19.3                |  |  |
| 10              | 64QAM      | 50      | 0         | 18.62                 | 18.63                        | 18.48                         | 18.23                  |                     |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 3524.5                | 3597                         | 3643                          | 3697.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 21.65                 | 21.56                        | 21.51                         | 21.57                  | 22.3                |  |  |
| 5               | QPSK       | 1       | 12        | 21.61                 | 21.51                        | 21.45                         | 21.52                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 21.53                 | 21.43                        | 21.39                         | 21.47                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 20.77                 | 20.64                        | 20.64                         | 20.70                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 20.77                 | 20.67                        | 20.58                         | 20.67                  | 21.3                |  |  |
| 5               | QPSK       | 12      | 13        | 20.70                 | 20.65                        | 20.52                         | 20.62                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 20.72                 | 20.63                        | 20.53                         | 20.63                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 20.73                 | 20.70                        | 20.63                         | 20.69                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 20.82                 | 20.72                        | 20.64                         | 20.74                  | 21.3                |  |  |
| 5               | 16QAM      | 1       | 24        | 20.73                 | 20.63                        | 20.54                         | 20.62                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 19.74                 | 19.67                        | 19.62                         | 19.65                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 19.77                 | 19.65                        | 19.58                         | 19.66                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 19.70                 | 19.59                        | 19.50                         | 19.60                  | 20.3                |  |  |
| 5               | 16QAM      | 25      | 0         | 19.77                 | 19.70                        | 19.56                         | 19.65                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 19.52                 | 19.47                        | 19.42                         | 19.47                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 19.52                 | 19.41                        | 19.36                         | 19.47                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 19.54                 | 19.42                        | 19.34                         | 19.37                  | 19.3                |  |  |
| 5               | 64QAM      | 12      | 0         | 18.79                 | 18.74                        | 18.68                         | 18.74                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 18.83                 | 18.69                        | 18.62                         | 18.70                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 18.77                 | 18.67                        | 18.56                         | 18.68                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 18.79                 | 18.70                        | 18.58                         | 18.70                  |                     |  |  |





| Band 38         |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ann 2           |            |         |           |                             |                                |                              |                           |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37850                       | 38000                          | 38150                        |                           |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                           |
| 20              | QPSK       | 1       | 0         | 24.48                       | 24.44                          | 24.35                        | 25.7                      |
| 20              | QPSK       | 1       | 49        | 24.49                       | 24.48                          | 24.36                        |                           |
| 20              | QPSK       | 1       | 99        | 24.48                       | 24.44                          | 24.35                        |                           |
| 20              | QPSK       | 50      | 0         | 24.07                       | 24.06                          | 23.96                        | 24.7                      |
| 20              | QPSK       | 50      | 24        | 24.19                       | 24.09                          | 24.05                        |                           |
| 20              | QPSK       | 50      | 50        | 24.15                       | 24.08                          | 24.02                        |                           |
| 20              | QPSK       | 100     | 0         | 24.16                       | 24.03                          | 24.03                        | 24.7                      |
| 20              | 16QAM      | 1       | 0         | 24.09                       | 24.04                          | 23.97                        |                           |
| 20              | 16QAM      | 1       | 49        | 24.07                       | 24.02                          | 23.95                        |                           |
| 20              | 16QAM      | 1       | 99        | 24.07                       | 24.01                          | 23.93                        | 23.7                      |
| 20              | 16QAM      | 50      | 0         | 23.11                       | 23.10                          | 22.99                        |                           |
| 20              | 16QAM      | 50      | 24        | 23.19                       | 23.07                          | 23.07                        |                           |
| 20              | 16QAM      | 50      | 50        | 23.18                       | 23.13                          | 23.03                        | 22.7                      |
| 20              | 16QAM      | 100     | 0         | 23.18                       | 23.07                          | 23.05                        |                           |
| 20              | 64QAM      | 1       | 0         | 22.80                       | 22.75                          | 22.68                        |                           |
| 20              | 64QAM      | 1       | 49        | 22.82                       | 22.75                          | 22.69                        | 22.7                      |
| 20              | 64QAM      | 1       | 99        | 22.81                       | 22.76                          | 22.64                        |                           |
| 20              | 64QAM      | 50      | 0         | 22.12                       | 22.10                          | 22.00                        |                           |
| 20              | 64QAM      | 50      | 24        | 22.20                       | 22.09                          | 22.09                        | 22.7                      |
| 20              | 64QAM      | 50      | 50        | 22.15                       | 22.14                          | 22.06                        |                           |
| 20              | 64QAM      | 100     | 0         | 22.20                       | 22.08                          | 22.07                        |                           |
| Channel         |            |         |           | 37825                       | 38000                          | 38175                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                           |
| 15              | QPSK       | 1       | 0         | 24.47                       | 24.43                          | 24.26                        | 25.7                      |
| 15              | QPSK       | 1       | 37        | 24.47                       | 24.46                          | 24.35                        |                           |
| 15              | QPSK       | 1       | 74        | 24.43                       | 24.38                          | 24.34                        |                           |
| 15              | QPSK       | 36      | 0         | 24.03                       | 24.00                          | 23.93                        | 24.7                      |
| 15              | QPSK       | 36      | 20        | 24.18                       | 23.96                          | 24.01                        |                           |
| 15              | QPSK       | 36      | 39        | 24.09                       | 24.03                          | 24.00                        |                           |
| 15              | QPSK       | 75      | 0         | 24.11                       | 23.99                          | 23.97                        | 24.7                      |
| 15              | 16QAM      | 1       | 0         | 24.06                       | 24.04                          | 23.93                        |                           |
| 15              | 16QAM      | 1       | 37        | 24.05                       | 24.01                          | 23.88                        |                           |
| 15              | 16QAM      | 1       | 74        | 24.00                       | 24.01                          | 23.91                        | 23.7                      |
| 15              | 16QAM      | 36      | 0         | 23.04                       | 23.00                          | 22.96                        |                           |
| 15              | 16QAM      | 36      | 20        | 23.15                       | 23.03                          | 23.03                        |                           |
| 15              | 16QAM      | 36      | 39        | 23.11                       | 23.12                          | 23.00                        | 23.7                      |
| 15              | 16QAM      | 75      | 0         | 23.15                       | 22.98                          | 23.02                        |                           |
| 15              | 64QAM      | 1       | 0         | 22.79                       | 22.70                          | 22.67                        |                           |
| 15              | 64QAM      | 1       | 37        | 22.75                       | 22.72                          | 22.60                        | 23.7                      |
| 15              | 64QAM      | 1       | 74        | 22.79                       | 22.67                          | 22.61                        |                           |
| 15              | 64QAM      | 36      | 0         | 22.07                       | 22.02                          | 21.91                        |                           |
| 15              | 64QAM      | 36      | 20        | 22.18                       | 22.08                          | 22.08                        | 22.7                      |
| 15              | 64QAM      | 36      | 39        | 22.10                       | 22.05                          | 21.98                        |                           |
| 15              | 64QAM      | 75      | 0         | 22.16                       | 22.04                          | 22.03                        |                           |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                           |
| 10              | QPSK       | 1       | 0         | 24.46                       | 24.33                          | 24.25                        | 25.7                      |
| 10              | QPSK       | 1       | 25        | 24.42                       | 24.40                          | 24.35                        |                           |
| 10              | QPSK       | 1       | 49        | 24.39                       | 24.39                          | 24.35                        |                           |
| 10              | QPSK       | 25      | 0         | 24.00                       | 24.03                          | 23.92                        | 24.7                      |
| 10              | QPSK       | 25      | 12        | 24.15                       | 23.95                          | 24.03                        |                           |
| 10              | QPSK       | 25      | 25        | 24.05                       | 24.09                          | 24.00                        |                           |
| 10              | QPSK       | 50      | 0         | 24.14                       | 23.96                          | 23.93                        | 24.7                      |
| 10              | 16QAM      | 1       | 0         | 24.09                       | 23.99                          | 23.90                        |                           |
| 10              | 16QAM      | 1       | 25        | 24.03                       | 24.02                          | 23.88                        |                           |
| 10              | 16QAM      | 1       | 49        | 24.06                       | 23.91                          | 23.87                        | 23.7                      |
| 10              | 16QAM      | 25      | 0         | 23.07                       | 23.09                          | 22.93                        |                           |
| 10              | 16QAM      | 25      | 12        | 23.14                       | 23.06                          | 23.02                        |                           |
| 10              | 16QAM      | 25      | 25        | 23.13                       | 23.09                          | 22.94                        | 23.7                      |
| 10              | 16QAM      | 50      | 0         | 23.13                       | 23.02                          | 23.05                        |                           |
| 10              | 64QAM      | 1       | 0         | 22.76                       | 22.75                          | 22.65                        |                           |
| 10              | 64QAM      | 1       | 25        | 22.73                       | 22.74                          | 22.66                        | 23.7                      |
| 10              | 64QAM      | 1       | 49        | 22.79                       | 22.70                          | 22.57                        |                           |
| 10              | 64QAM      | 25      | 0         | 22.06                       | 22.02                          | 21.94                        |                           |
| 10              | 64QAM      | 25      | 12        | 22.19                       | 22.06                          | 22.06                        | 22.7                      |
| 10              | 64QAM      | 25      | 25        | 22.09                       | 22.04                          | 22.04                        |                           |
| 10              | 64QAM      | 50      | 0         | 22.18                       | 22.02                          | 22.01                        |                           |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                           |
| 5               | QPSK       | 1       | 0         | 24.41                       | 24.40                          | 24.28                        | 25.7                      |
| 5               | QPSK       | 1       | 12        | 24.44                       | 24.45                          | 24.32                        |                           |
| 5               | QPSK       | 1       | 24        | 24.38                       | 24.38                          | 24.26                        |                           |
| 5               | QPSK       | 12      | 0         | 24.06                       | 24.03                          | 23.94                        | 24.7                      |
| 5               | QPSK       | 12      | 7         | 24.11                       | 23.95                          | 24.03                        |                           |
| 5               | QPSK       | 12      | 13        | 24.08                       | 24.08                          | 23.99                        |                           |
| 5               | QPSK       | 25      | 0         | 24.12                       | 24.03                          | 24.02                        | 24.7                      |
| 5               | 16QAM      | 1       | 0         | 24.06                       | 23.98                          | 23.91                        |                           |
| 5               | 16QAM      | 1       | 12        | 24.04                       | 23.97                          | 23.91                        |                           |
| 5               | 16QAM      | 1       | 24        | 24.05                       | 23.97                          | 23.89                        | 23.7                      |
| 5               | 16QAM      | 12      | 0         | 23.05                       | 23.08                          | 22.96                        |                           |
| 5               | 16QAM      | 12      | 7         | 23.17                       | 23.05                          | 23.06                        |                           |
| 5               | 16QAM      | 12      | 13        | 23.11                       | 23.11                          | 22.98                        | 23.7                      |
| 5               | 16QAM      | 25      | 0         | 23.12                       | 23.05                          | 22.98                        |                           |
| 5               | 64QAM      | 1       | 0         | 22.79                       | 22.65                          | 22.61                        |                           |
| 5               | 64QAM      | 1       | 12        | 22.73                       | 22.71                          | 22.67                        | 22.7                      |
| 5               | 64QAM      | 1       | 24        | 22.72                       | 22.74                          | 22.56                        |                           |
| 5               | 64QAM      | 12      | 0         | 22.02                       | 22.10                          | 21.96                        |                           |
| 5               | 64QAM      | 12      | 7         | 22.12                       | 22.04                          | 22.02                        | 22.7                      |
| 5               | 64QAM      | 12      | 13        | 22.10                       | 22.10                          | 22.06                        |                           |
| 5               | 64QAM      | 25      | 0         | 22.13                       | 21.98                          | 21.99                        |                           |



| Band 41         |            |         |           |                           |                                  |                              |                                   |                            |                           |  |
|-----------------|------------|---------|-----------|---------------------------|----------------------------------|------------------------------|-----------------------------------|----------------------------|---------------------------|--|
| Ann 2           |            |         |           |                           |                                  |                              |                                   |                            |                           |  |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch / Freq | Power<br>Low-Middle<br>Ch / Freq | Power<br>Middle<br>Ch / Freq | Power<br>High-Middle<br>Ch / Freq | Power<br>High<br>Ch / Freq | Tune-up<br>limit<br>(dBm) |  |
| Channel         |            |         |           | 39750                     | 40185                            | 40620                        | 41055                             | 41490                      |                           |  |
| Frequency (MHz) |            |         |           | 2506                      | 2549.5                           | 2593                         | 2636.5                            | 2680                       |                           |  |
| 20              | QPSK       | 1       | 0         | 24.23                     | 24.38                            | 24.45                        | 24.14                             | 23.88                      | 25.7                      |  |
| 20              | QPSK       | 1       | 49        | 24.21                     | 24.35                            | 24.33                        | 24.40                             | 24.10                      |                           |  |
| 20              | QPSK       | 1       | 99        | 24.22                     | 24.37                            | 24.43                        | 24.00                             | 24.09                      |                           |  |
| 20              | QPSK       | 50      | 0         | 23.79                     | 23.94                            | 23.94                        | 24.05                             | 23.90                      | 24.7                      |  |
| 20              | QPSK       | 50      | 24        | 23.90                     | 24.07                            | 24.16                        | 24.15                             | 24.02                      |                           |  |
| 20              | QPSK       | 50      | 50        | 23.88                     | 24.04                            | 24.01                        | 24.07                             | 24.01                      |                           |  |
| 20              | QPSK       | 100     | 0         | 23.89                     | 24.05                            | 24.01                        | 24.10                             | 23.97                      | 24.7                      |  |
| 20              | 16QAM      | 1       | 0         | 23.80                     | 23.95                            | 24.05                        | 23.94                             | 23.87                      |                           |  |
| 20              | 16QAM      | 1       | 49        | 23.90                     | 23.96                            | 23.92                        | 24.23                             | 24.04                      |                           |  |
| 20              | 16QAM      | 1       | 99        | 23.84                     | 24.03                            | 24.00                        | 23.79                             | 23.87                      | 23.7                      |  |
| 20              | 16QAM      | 50      | 0         | 22.82                     | 22.96                            | 22.97                        | 23.09                             | 22.93                      |                           |  |
| 20              | 16QAM      | 50      | 24        | 22.91                     | 23.09                            | 23.05                        | 23.22                             | 23.06                      |                           |  |
| 20              | 16QAM      | 50      | 50        | 22.90                     | 23.07                            | 23.04                        | 23.08                             | 23.02                      | 23.7                      |  |
| 20              | 16QAM      | 100     | 0         | 22.90                     | 23.06                            | 23.02                        | 23.11                             | 22.97                      |                           |  |
| 20              | 64QAM      | 1       | 0         | 22.51                     | 22.60                            | 22.65                        | 22.60                             | 22.35                      |                           |  |
| 20              | 64QAM      | 1       | 49        | 22.51                     | 22.71                            | 22.68                        | 22.99                             | 22.79                      | 22.7                      |  |
| 20              | 64QAM      | 1       | 99        | 22.66                     | 22.76                            | 22.68                        | 22.53                             | 22.55                      |                           |  |
| 20              | 64QAM      | 50      | 0         | 21.82                     | 21.98                            | 21.98                        | 22.09                             | 21.93                      |                           |  |
| 20              | 64QAM      | 50      | 24        | 21.93                     | 22.07                            | 22.07                        | 22.21                             | 22.06                      | Tune-up<br>limit<br>(dBm) |  |
| 20              | 64QAM      | 50      | 50        | 21.92                     | 22.07                            | 22.05                        | 22.08                             | 22.03                      |                           |  |
| 20              | 64QAM      | 100     | 0         | 21.91                     | 22.08                            | 22.04                        | 22.14                             | 21.96                      |                           |  |
| Channel         |            |         |           | 39725                     | 40173                            | 40620                        | 41068                             | 41515                      |                           |  |
| Frequency (MHz) |            |         |           | 2503.5                    | 2546.3                           | 2593                         | 2637.8                            | 2682.5                     |                           |  |
| 15              | QPSK       | 1       | 0         | 24.16                     | 24.23                            | 24.44                        | 24.13                             | 23.82                      | 25.7                      |  |
| 15              | QPSK       | 1       | 37        | 24.11                     | 24.31                            | 24.25                        | 24.32                             | 24.22                      |                           |  |
| 15              | QPSK       | 1       | 74        | 24.21                     | 24.34                            | 24.40                        | 23.97                             | 24.02                      |                           |  |
| 15              | QPSK       | 36      | 0         | 23.75                     | 23.94                            | 23.86                        | 24.04                             | 23.85                      | 24.7                      |  |
| 15              | QPSK       | 36      | 20        | 23.89                     | 23.99                            | 23.94                        | 24.16                             | 23.92                      |                           |  |
| 15              | QPSK       | 36      | 39        | 23.80                     | 24.03                            | 24.00                        | 23.98                             | 23.98                      |                           |  |
| 15              | QPSK       | 75      | 0         | 23.89                     | 23.99                            | 24.01                        | 24.08                             | 23.95                      | 24.7                      |  |
| 15              | 16QAM      | 1       | 0         | 23.70                     | 23.88                            | 24.03                        | 23.89                             | 23.58                      |                           |  |
| 15              | 16QAM      | 1       | 37        | 23.75                     | 23.89                            | 23.83                        | 24.14                             | 23.98                      |                           |  |
| 15              | 16QAM      | 1       | 74        | 23.79                     | 23.98                            | 23.97                        | 23.78                             | 23.81                      | 23.7                      |  |
| 15              | 16QAM      | 36      | 0         | 22.79                     | 22.88                            | 22.89                        | 23.03                             | 22.84                      |                           |  |
| 15              | 16QAM      | 36      | 20        | 22.83                     | 23.00                            | 23.01                        | 23.15                             | 22.98                      |                           |  |
| 15              | 16QAM      | 36      | 39        | 22.90                     | 23.06                            | 23.04                        | 23.00                             | 22.95                      | 23.7                      |  |
| 15              | 16QAM      | 75      | 0         | 22.89                     | 23.05                            | 22.92                        | 23.04                             | 22.95                      |                           |  |
| 15              | 64QAM      | 1       | 0         | 22.44                     | 22.53                            | 22.58                        | 22.54                             | 22.29                      |                           |  |
| 15              | 64QAM      | 1       | 37        | 22.41                     | 22.68                            | 22.59                        | 22.94                             | 22.72                      | 22.7                      |  |
| 15              | 64QAM      | 1       | 74        | 22.48                     | 22.71                            | 22.59                        | 22.43                             | 22.51                      |                           |  |
| 15              | 64QAM      | 36      | 0         | 21.77                     | 21.98                            | 21.95                        | 22.07                             | 21.88                      |                           |  |
| 15              | 64QAM      | 36      | 20        | 21.88                     | 22.01                            | 22.05                        | 22.15                             | 21.96                      | Tune-up<br>limit<br>(dBm) |  |
| 15              | 64QAM      | 36      | 39        | 21.87                     | 22.01                            | 21.95                        | 22.06                             | 22.03                      |                           |  |
| 15              | 64QAM      | 75      | 0         | 21.86                     | 22.02                            | 21.96                        | 22.10                             | 21.95                      |                           |  |
| Channel         |            |         |           | 39700                     | 40160                            | 40620                        | 41080                             | 41540                      |                           |  |
| Frequency (MHz) |            |         |           | 2501                      | 2547                             | 2593                         | 2639                              | 2685                       |                           |  |
| 10              | QPSK       | 1       | 0         | 24.20                     | 24.32                            | 24.38                        | 24.11                             | 23.83                      | 25.7                      |  |
| 10              | QPSK       | 1       | 25        | 24.15                     | 24.28                            | 24.26                        | 24.38                             | 24.22                      |                           |  |
| 10              | QPSK       | 1       | 49        | 24.13                     | 24.30                            | 24.38                        | 23.91                             | 24.05                      |                           |  |
| 10              | QPSK       | 25      | 0         | 23.69                     | 23.91                            | 23.90                        | 23.98                             | 23.84                      | 24.7                      |  |
| 10              | QPSK       | 25      | 12        | 23.81                     | 24.01                            | 23.97                        | 24.19                             | 23.93                      |                           |  |
| 10              | QPSK       | 25      | 25        | 23.81                     | 24.03                            | 23.98                        | 23.97                             | 23.94                      |                           |  |
| 10              | QPSK       | 50      | 0         | 23.83                     | 23.96                            | 23.96                        | 24.05                             | 23.96                      | 24.7                      |  |
| 10              | 16QAM      | 1       | 0         | 23.80                     | 23.88                            | 23.97                        | 23.86                             | 23.65                      |                           |  |
| 10              | 16QAM      | 1       | 25        | 23.74                     | 23.95                            | 23.87                        | 24.17                             | 24.02                      |                           |  |
| 10              | 16QAM      | 1       | 49        | 23.78                     | 23.95                            | 23.94                        | 23.71                             | 23.87                      | 23.7                      |  |
| 10              | 16QAM      | 25      | 0         | 22.79                     | 22.94                            | 22.94                        | 23.09                             | 22.86                      |                           |  |
| 10              | 16QAM      | 25      | 12        | 22.90                     | 23.07                            | 22.95                        | 23.14                             | 22.96                      |                           |  |
| 10              | 16QAM      | 25      | 25        | 22.90                     | 23.03                            | 23.00                        | 23.00                             | 23.02                      | 22.7                      |  |
| 10              | 16QAM      | 50      | 0         | 22.81                     | 23.02                            | 22.97                        | 23.05                             | 22.94                      |                           |  |
| 10              | 64QAM      | 1       | 0         | 22.43                     | 22.59                            | 22.64                        | 22.52                             | 22.35                      |                           |  |
| 10              | 64QAM      | 1       | 25        | 22.43                     | 22.65                            | 22.68                        | 22.96                             | 22.73                      | 22.7                      |  |
| 10              | 64QAM      | 1       | 49        | 22.46                     | 22.70                            | 22.66                        | 22.52                             | 22.50                      |                           |  |
| 10              | 64QAM      | 25      | 0         | 21.73                     | 21.88                            | 21.96                        | 22.07                             | 21.88                      |                           |  |
| 10              | 64QAM      | 25      | 12        | 21.85                     | 22.03                            | 22.01                        | 22.15                             | 21.98                      | Tune-up<br>limit<br>(dBm) |  |
| 10              | 64QAM      | 25      | 25        | 21.82                     | 21.97                            | 22.01                        | 21.98                             | 21.99                      |                           |  |
| 10              | 64QAM      | 50      | 0         | 21.87                     | 21.99                            | 21.99                        | 22.14                             | 21.90                      |                           |  |
| Channel         |            |         |           | 39675                     | 40148                            | 40620                        | 41093                             | 41565                      |                           |  |
| Frequency (MHz) |            |         |           | 2498.5                    | 2545.8                           | 2593                         | 2640.3                            | 2687.5                     |                           |  |
| 5               | QPSK       | 1       | 0         | 24.16                     | 24.23                            | 24.40                        | 24.14                             | 23.78                      | 25.7                      |  |
| 5               | QPSK       | 1       | 12        | 24.17                     | 24.33                            | 24.30                        | 24.30                             | 24.22                      |                           |  |
| 5               | QPSK       | 1       | 24        | 24.13                     | 24.31                            | 24.43                        | 23.91                             | 24.05                      |                           |  |
| 5               | QPSK       | 12      | 0         | 23.72                     | 23.88                            | 23.92                        | 23.99                             | 23.84                      | 24.7                      |  |
| 5               | QPSK       | 12      | 7         | 23.81                     | 24.05                            | 24.00                        | 24.15                             | 24.02                      |                           |  |
| 5               | QPSK       | 12      | 13        | 23.82                     | 24.01                            | 23.94                        | 23.99                             | 23.99                      |                           |  |
| 5               | QPSK       | 25      | 0         | 23.66                     | 23.97                            | 23.99                        | 24.05                             | 23.92                      | 24.7                      |  |
| 5               | 16QAM      | 1       | 0         | 23.71                     | 23.90                            | 23.98                        | 23.89                             | 23.61                      |                           |  |
| 5               | 16QAM      | 1       | 12        | 23.79                     | 23.91                            | 23.86                        | 24.18                             | 24.03                      |                           |  |
| 5               | 16QAM      | 1       | 24        | 23.83                     | 23.99                            | 23.90                        | 23.74                             | 23.79                      | 23.7                      |  |
| 5               | 16QAM      | 12      | 0         | 22.79                     | 22.89                            | 22.93                        | 23.06                             | 22.86                      |                           |  |
| 5               | 16QAM      | 12      | 7         | 22.81                     | 22.99                            | 23.01                        | 23.22                             | 23.04                      |                           |  |
| 5               | 16QAM      | 12      | 13        | 22.90                     | 23.05                            | 23.03                        | 22.99                             | 22.94                      | 22.7                      |  |
| 5               | 16QAM      | 25      | 0         | 22.81                     | 22.96                            | 22.99                        | 23.07                             | 22.95                      |                           |  |
| 5               | 64QAM      | 1       | 0         | 22.51                     | 22.59                            | 22.65                        | 22.52                             | 22.35                      |                           |  |
| 5               | 64QAM      | 1       | 12        | 22.46                     | 22.68                            | 22.65                        | 22.83                             | 22.69                      | Tune-up<br>limit<br>(dBm) |  |
| 5               | 64QAM      | 1       | 24        | 22.54                     | 22.71                            | 22.69                        | 22.50                             | 22.47                      |                           |  |
| 5               | 64QAM      | 12      | 0         | 21.81                     | 21.90                            | 21.89                        | 22.07                             | 21.85                      |                           |  |
| 5               | 64QAM      | 12      | 7         | 21.83                     | 21.99                            | 22.07                        | 22.16                             | 22.03                      | 22.7                      |  |
| 5               | 64QAM      | 12      | 13        | 21.92                     | 22.05                            | 22.01                        | 22.04                             | 22.02                      |                           |  |
| 5               | 64QAM      | 25      | 0         | 21.90                     | 22.03                            | 22.01                        | 22.05                             | 21.91                      |                           |  |



| Band 41 HPUE    |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| Ant.2           |            |         |           |                     |                            |                        |                             |                      |                     |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |
| 20              | QPSK       | 1       | 0         | 25.76               | 25.92                      | 26.00                  | 25.74                       | 25.50                | 27.5                |
| 20              | QPSK       | 1       | 49        | 25.76               | 25.92                      | 25.89                  | 25.59                       | 25.81                |                     |
| 20              | QPSK       | 1       | 99        | 25.83               | 26.00                      | 26.01                  | 25.58                       | 25.70                |                     |
| 20              | QPSK       | 50      | 0         | 25.56               | 25.73                      | 25.73                  | 25.96                       | 25.82                | 26.5                |
| 20              | QPSK       | 50      | 24        | 25.67               | 25.84                      | 25.98                  | 25.94                       | 25.95                |                     |
| 20              | QPSK       | 50      | 50        | 25.66               | 25.83                      | 25.81                  | 25.96                       | 25.88                |                     |
| 20              | QPSK       | 100     | 0         | 25.68               | 25.84                      | 25.81                  | 26.01                       | 25.85                | 26.5                |
| 20              | 16QAM      | 1       | 0         | 25.72               | 25.86                      | 26.00                  | 25.93                       | 25.69                |                     |
| 20              | 16QAM      | 1       | 49        | 25.74               | 25.93                      | 25.91                  | 26.23                       | 26.92                |                     |
| 20              | 16QAM      | 1       | 99        | 25.72               | 25.99                      | 25.93                  | 25.81                       | 25.86                | 25.5                |
| 20              | 16QAM      | 50      | 0         | 24.61               | 24.75                      | 24.78                  | 24.99                       | 24.83                |                     |
| 20              | 16QAM      | 50      | 24        | 24.71               | 24.86                      | 24.85                  | 25.14                       | 24.96                |                     |
| 20              | 16QAM      | 50      | 50        | 24.67               | 24.87                      | 24.83                  | 24.99                       | 24.94                | 24.5                |
| 20              | 16QAM      | 100     | 0         | 24.68               | 24.86                      | 24.84                  | 25.03                       | 24.90                |                     |
| 20              | 64QAM      | 1       | 0         | 24.58               | 24.94                      | 24.66                  | 24.76                       | 24.54                |                     |
| 20              | 64QAM      | 1       | 49        | 24.62               | 24.74                      | 24.71                  | 25.09                       | 24.58                | 24.5                |
| 20              | 64QAM      | 1       | 99        | 24.62               | 24.82                      | 24.79                  | 24.66                       | 23.81                |                     |
| 20              | 64QAM      | 50      | 0         | 23.59               | 23.77                      | 23.75                  | 23.99                       | 23.58                |                     |
| 20              | 64QAM      | 50      | 24        | 23.69               | 23.86                      | 23.84                  | 24.15                       | 23.40                | 24.5                |
| 20              | 64QAM      | 50      | 50        | 23.68               | 23.87                      | 23.83                  | 24.01                       | 23.13                |                     |
| 20              | 64QAM      | 100     | 0         | 23.70               | 23.86                      | 23.83                  | 24.05                       | 23.28                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |
| 15              | QPSK       | 1       | 0         | 25.71               | 25.90                      | 26.00                  | 25.68                       | 25.51                | 27.5                |
| 15              | QPSK       | 1       | 37        | 25.67               | 25.89                      | 25.82                  | 25.91                       | 25.81                |                     |
| 15              | QPSK       | 1       | 74        | 25.82               | 25.92                      | 25.92                  | 25.58                       | 25.69                |                     |
| 15              | QPSK       | 36      | 0         | 25.53               | 25.67                      | 25.70                  | 25.86                       | 25.78                | 26.5                |
| 15              | QPSK       | 36      | 20        | 25.67               | 25.84                      | 25.95                  | 25.91                       | 25.90                |                     |
| 15              | QPSK       | 36      | 39        | 25.62               | 25.81                      | 25.71                  | 25.86                       | 25.79                |                     |
| 15              | QPSK       | 75      | 0         | 25.60               | 25.82                      | 25.76                  | 25.97                       | 25.84                | 26.5                |
| 15              | 16QAM      | 1       | 0         | 25.63               | 25.85                      | 25.87                  | 25.92                       | 25.64                |                     |
| 15              | 16QAM      | 1       | 37        | 25.74               | 25.89                      | 25.85                  | 26.17                       | 26.00                |                     |
| 15              | 16QAM      | 1       | 74        | 25.67               | 25.96                      | 25.87                  | 25.77                       | 25.84                | 25.5                |
| 15              | 16QAM      | 36      | 0         | 24.54               | 24.73                      | 24.75                  | 24.93                       | 24.75                |                     |
| 15              | 16QAM      | 36      | 20        | 24.71               | 24.77                      | 24.82                  | 25.13                       | 24.93                |                     |
| 15              | 16QAM      | 36      | 39        | 24.65               | 24.86                      | 24.77                  | 24.92                       | 24.87                | 25.5                |
| 15              | 16QAM      | 75      | 0         | 24.61               | 24.83                      | 24.82                  | 25.00                       | 24.89                |                     |
| 15              | 64QAM      | 1       | 0         | 24.50               | 24.59                      | 24.56                  | 24.73                       | 24.46                |                     |
| 15              | 64QAM      | 1       | 37        | 24.64               | 24.66                      | 24.67                  | 25.09                       | 24.50                | 24.5                |
| 15              | 64QAM      | 1       | 74        | 24.54               | 24.75                      | 24.76                  | 24.59                       | 23.73                |                     |
| 15              | 64QAM      | 36      | 0         | 23.51               | 23.70                      | 23.72                  | 23.91                       | 23.46                |                     |
| 15              | 64QAM      | 36      | 20        | 23.85               | 23.82                      | 23.79                  | 24.12                       | 23.40                | 24.5                |
| 15              | 64QAM      | 36      | 39        | 23.60               | 23.80                      | 23.75                  | 23.95                       | 23.12                |                     |
| 15              | 64QAM      | 75      | 0         | 23.70               | 23.84                      | 23.74                  | 23.98                       | 23.22                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |
| 10              | QPSK       | 1       | 0         | 25.75               | 25.89                      | 25.94                  | 25.66                       | 25.52                | 27.5                |
| 10              | QPSK       | 1       | 25        | 25.72               | 25.84                      | 25.79                  | 25.94                       | 25.76                |                     |
| 10              | QPSK       | 1       | 49        | 25.77               | 25.91                      | 26.01                  | 25.49                       | 25.70                |                     |
| 10              | QPSK       | 25      | 0         | 25.46               | 25.67                      | 25.72                  | 25.91                       | 25.74                | 26.5                |
| 10              | QPSK       | 25      | 12        | 25.59               | 25.81                      | 25.89                  | 25.86                       | 25.85                |                     |
| 10              | QPSK       | 25      | 25        | 25.61               | 25.77                      | 25.76                  | 25.90                       | 25.79                |                     |
| 10              | QPSK       | 50      | 0         | 25.60               | 25.82                      | 25.71                  | 25.91                       | 25.76                | 26.5                |
| 10              | 16QAM      | 1       | 0         | 25.62               | 25.80                      | 25.94                  | 25.85                       | 25.61                |                     |
| 10              | 16QAM      | 1       | 25        | 25.73               | 25.92                      | 25.91                  | 26.15                       | 25.97                |                     |
| 10              | 16QAM      | 1       | 49        | 25.71               | 25.93                      | 25.84                  | 25.75                       | 25.78                | 25.5                |
| 10              | 16QAM      | 25      | 0         | 24.51               | 24.73                      | 24.72                  | 24.96                       | 24.82                |                     |
| 10              | 16QAM      | 25      | 12        | 24.63               | 24.84                      | 24.82                  | 25.04                       | 24.86                |                     |
| 10              | 16QAM      | 25      | 25        | 24.64               | 24.77                      | 24.79                  | 24.89                       | 24.84                | 25.5                |
| 10              | 16QAM      | 50      | 0         | 24.60               | 24.86                      | 24.74                  | 24.96                       | 24.82                |                     |
| 10              | 64QAM      | 1       | 0         | 24.65               | 24.60                      | 24.56                  | 24.66                       | 24.49                |                     |
| 10              | 64QAM      | 1       | 25        | 24.56               | 24.74                      | 24.69                  | 25.08                       | 24.50                | 24.5                |
| 10              | 64QAM      | 1       | 49        | 24.55               | 24.79                      | 24.71                  | 24.61                       | 23.76                |                     |
| 10              | 64QAM      | 25      | 0         | 23.59               | 23.73                      | 23.75                  | 23.97                       | 23.51                |                     |
| 10              | 64QAM      | 25      | 12        | 23.59               | 23.86                      | 23.84                  | 24.13                       | 23.39                | 24.5                |
| 10              | 64QAM      | 25      | 25        | 23.64               | 23.79                      | 23.80                  | 23.94                       | 23.12                |                     |
| 10              | 64QAM      | 50      | 0         | 23.68               | 23.83                      | 23.82                  | 24.02                       | 23.21                |                     |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |
| 5               | QPSK       | 1       | 0         | 25.69               | 25.88                      | 25.92                  | 25.70                       | 25.53                | 27.5                |
| 5               | QPSK       | 1       | 12        | 25.68               | 25.84                      | 25.82                  | 25.93                       | 25.80                |                     |
| 5               | QPSK       | 1       | 24        | 25.83               | 25.91                      | 26.01                  | 25.53                       | 25.60                |                     |
| 5               | QPSK       | 12      | 0         | 25.54               | 25.65                      | 25.64                  | 25.95                       | 25.72                | 26.5                |
| 5               | QPSK       | 12      | 7         | 25.60               | 25.82                      | 25.97                  | 25.94                       | 25.88                |                     |
| 5               | QPSK       | 12      | 13        | 25.59               | 25.75                      | 25.75                  | 25.92                       | 25.87                |                     |
| 5               | QPSK       | 25      | 0         | 25.60               | 25.76                      | 25.73                  | 25.92                       | 25.82                | 26.5                |
| 5               | 16QAM      | 1       | 0         | 25.63               | 25.81                      | 25.92                  | 25.84                       | 25.69                |                     |
| 5               | 16QAM      | 1       | 12        | 25.64               | 25.85                      | 25.83                  | 26.15                       | 25.97                |                     |
| 5               | 16QAM      | 1       | 24        | 25.68               | 25.95                      | 25.84                  | 25.71                       | 25.81                | 25.5                |
| 5               | 16QAM      | 12      | 0         | 24.57               | 24.65                      | 24.72                  | 24.99                       | 24.74                |                     |
| 5               | 16QAM      | 12      | 7         | 24.69               | 24.77                      | 24.83                  | 25.12                       | 24.87                |                     |
| 5               | 16QAM      | 12      | 13        | 24.58               | 24.82                      | 24.81                  | 24.93                       | 24.87                | 24.5                |
| 5               | 16QAM      | 25      | 0         | 24.63               | 24.78                      | 24.82                  | 24.97                       | 24.81                |                     |
| 5               | 64QAM      | 1       | 0         | 24.52               | 24.60                      | 24.62                  | 24.66                       | 24.47                |                     |
| 5               | 64QAM      | 1       | 12        | 24.57               | 24.67                      | 24.64                  | 25.01                       | 24.53                | 24.5                |
| 5               | 64QAM      | 1       | 24        | 24.59               | 24.76                      | 24.74                  | 24.56                       | 23.77                |                     |
| 5               | 64QAM      | 12      | 0         | 23.52               | 23.74                      | 23.71                  | 23.90                       | 23.56                |                     |
| 5               | 64QAM      | 12      | 7         | 23.62               | 23.85                      | 23.81                  | 24.08                       | 23.40                | 24.5                |
| 5               | 64QAM      | 12      | 13        | 23.64               | 23.83                      | 23.76                  | 23.95                       | 23.12                |                     |
| 5               | 64QAM      | 25      | 0         | 23.60               | 23.85                      | 23.80                  | 23.96                       | 23.16                |                     |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |                     |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|---------------------|--|
| Ant 7           |            |         |           |                       |                              |                               |                        |                     |  |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |                     |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |  |                     |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |                     |  |
| 20              | QPSK       | 1       | 0         | 23.60                 | 23.51                        | 23.39                         | 23.25                  | 24.6                |  |                     |  |
| 20              | QPSK       | 1       | 49        | 23.40                 | 23.27                        | 23.12                         | 22.88                  |                     |  |                     |  |
| 20              | QPSK       | 1       | 99        | 23.37                 | 23.23                        | 23.04                         | 22.81                  |                     |  |                     |  |
| 20              | QPSK       | 50      | 0         | 23.15                 | 23.02                        | 22.88                         | 22.63                  |                     |  |                     |  |
| 20              | QPSK       | 50      | 24        | 23.10                 | 22.88                        | 22.83                         | 22.55                  | 24.1                |  |                     |  |
| 20              | QPSK       | 50      | 50        | 22.95                 | 22.82                        | 22.64                         | 22.40                  |                     |  |                     |  |
| 20              | QPSK       | 100     | 0         | 23.06                 | 22.88                        | 22.81                         | 22.55                  |                     |  |                     |  |
| 20              | 16QAM      | 1       | 0         | 23.25                 | 23.14                        | 22.98                         | 22.75                  |                     |  |                     |  |
| 20              | 16QAM      | 1       | 49        | 22.97                 | 22.87                        | 22.69                         | 22.45                  | 24.1                |  |                     |  |
| 20              | 16QAM      | 1       | 99        | 22.99                 | 22.84                        | 22.66                         | 22.42                  |                     |  |                     |  |
| 20              | 16QAM      | 50      | 0         | 22.16                 | 22.06                        | 21.91                         | 21.66                  |                     |  |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.11                 | 21.91                        | 21.83                         | 21.60                  |                     |  |                     |  |
| 20              | 16QAM      | 50      | 50        | 21.95                 | 21.84                        | 21.69                         | 21.44                  | 23.1                |  |                     |  |
| 20              | 16QAM      | 100     | 0         | 22.11                 | 21.92                        | 21.84                         | 21.56                  |                     |  |                     |  |
| 20              | 64QAM      | 1       | 0         | 21.99                 | 21.89                        | 21.74                         | 21.48                  |                     |  |                     |  |
| 20              | 64QAM      | 1       | 49        | 21.79                 | 21.65                        | 21.47                         | 21.21                  |                     |  |                     |  |
| 20              | 64QAM      | 1       | 99        | 21.72                 | 21.55                        | 21.35                         | 21.15                  | 23.1                |  |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.19                 | 21.06                        | 20.92                         | 20.66                  |                     |  |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.10                 | 20.92                        | 20.87                         | 20.59                  |                     |  |                     |  |
| 20              | 64QAM      | 50      | 50        | 20.96                 | 20.85                        | 20.69                         | 20.44                  |                     |  |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.11                 | 20.93                        | 20.84                         | 20.59                  | 22.1                |  |                     |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |  |                     |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |                     |  |
| 15              | QPSK       | 1       | 0         | 23.51                 | 23.41                        | 23.23                         | 23.00                  | 24.6                |  |                     |  |
| 15              | QPSK       | 1       | 37        | 23.39                 | 23.27                        | 23.07                         | 22.81                  |                     |  |                     |  |
| 15              | QPSK       | 1       | 74        | 23.37                 | 23.25                        | 23.02                         | 22.81                  |                     |  |                     |  |
| 15              | QPSK       | 36      | 0         | 23.11                 | 23.00                        | 22.85                         | 22.58                  |                     |  |                     |  |
| 15              | QPSK       | 36      | 20        | 23.06                 | 22.93                        | 22.78                         | 22.53                  | 24.1                |  |                     |  |
| 15              | QPSK       | 36      | 39        | 22.93                 | 22.83                        | 22.63                         | 22.47                  |                     |  |                     |  |
| 15              | QPSK       | 75      | 0         | 22.98                 | 22.86                        | 22.79                         | 22.51                  |                     |  |                     |  |
| 15              | 16QAM      | 1       | 0         | 23.16                 | 23.06                        | 22.88                         | 22.62                  |                     |  |                     |  |
| 15              | 16QAM      | 1       | 37        | 22.90                 | 22.83                        | 22.65                         | 22.40                  | 24.1                |  |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.04                 | 22.91                        | 22.69                         | 22.47                  |                     |  |                     |  |
| 15              | 16QAM      | 36      | 0         | 22.08                 | 21.98                        | 21.80                         | 21.56                  |                     |  |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.01                 | 21.90                        | 21.71                         | 21.48                  |                     |  |                     |  |
| 15              | 16QAM      | 36      | 39        | 21.91                 | 21.80                        | 21.60                         | 21.44                  | 23.1                |  |                     |  |
| 15              | 16QAM      | 75      | 0         | 21.99                 | 21.88                        | 21.80                         | 21.54                  |                     |  |                     |  |
| 15              | 64QAM      | 1       | 0         | 21.82                 | 21.82                        | 21.63                         | 21.33                  |                     |  |                     |  |
| 15              | 64QAM      | 1       | 37        | 21.76                 | 21.63                        | 21.44                         | 21.20                  |                     |  |                     |  |
| 15              | 64QAM      | 1       | 74        | 21.75                 | 21.60                        | 21.41                         | 21.16                  | 23.1                |  |                     |  |
| 15              | 64QAM      | 36      | 0         | 21.12                 | 21.02                        | 20.86                         | 20.60                  |                     |  |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.07                 | 20.95                        | 20.79                         | 20.54                  |                     |  |                     |  |
| 15              | 64QAM      | 36      | 39        | 20.95                 | 20.84                        | 20.65                         | 20.47                  |                     |  |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.02                 | 20.97                        | 20.79                         | 20.55                  | 22.1                |  |                     |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56660                  |                     |  | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |  |                     |  |
| 10              | QPSK       | 1       | 0         | 23.46                 | 23.36                        | 23.15                         | 22.90                  |                     |  | 24.6                |  |
| 10              | QPSK       | 1       | 25        | 23.34                 | 23.17                        | 23.01                         | 22.72                  |                     |  |                     |  |
| 10              | QPSK       | 1       | 49        | 23.31                 | 23.25                        | 23.02                         | 22.81                  |                     |  |                     |  |
| 10              | QPSK       | 25      | 0         | 23.04                 | 22.91                        | 22.76                         | 22.49                  |                     |  |                     |  |
| 10              | QPSK       | 25      | 12        | 22.97                 | 22.90                        | 22.70                         | 22.43                  | 24.1                |  |                     |  |
| 10              | QPSK       | 25      | 25        | 22.89                 | 22.80                        | 22.60                         | 22.40                  |                     |  |                     |  |
| 10              | QPSK       | 50      | 0         | 22.95                 | 22.94                        | 22.79                         | 22.49                  |                     |  |                     |  |
| 10              | 16QAM      | 1       | 0         | 23.09                 | 23.00                        | 22.85                         | 22.53                  |                     |  |                     |  |
| 10              | 16QAM      | 1       | 25        | 22.82                 | 22.79                        | 22.57                         | 22.38                  | 24.1                |  |                     |  |
| 10              | 16QAM      | 1       | 49        | 22.95                 | 22.89                        | 22.63                         | 22.47                  |                     |  |                     |  |
| 10              | 16QAM      | 25      | 0         | 22.01                 | 21.94                        | 21.72                         | 21.47                  |                     |  |                     |  |
| 10              | 16QAM      | 25      | 12        | 21.96                 | 21.92                        | 21.66                         | 21.39                  |                     |  |                     |  |
| 10              | 16QAM      | 25      | 25        | 21.91                 | 21.72                        | 21.54                         | 21.38                  | 23.1                |  |                     |  |
| 10              | 16QAM      | 50      | 0         | 21.93                 | 21.96                        | 21.77                         | 21.45                  |                     |  |                     |  |
| 10              | 64QAM      | 1       | 0         | 21.82                 | 21.80                        | 21.55                         | 21.25                  |                     |  |                     |  |
| 10              | 64QAM      | 1       | 25        | 21.68                 | 21.54                        | 21.34                         | 21.13                  |                     |  |                     |  |
| 10              | 64QAM      | 1       | 49        | 21.67                 | 21.49                        | 21.41                         | 21.12                  | 23.1                |  |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.08                 | 20.95                        | 20.85                         | 20.54                  |                     |  |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.05                 | 20.88                        | 20.71                         | 20.49                  |                     |  |                     |  |
| 10              | 64QAM      | 25      | 25        | 20.94                 | 20.77                        | 20.57                         | 20.38                  |                     |  |                     |  |
| 10              | 64QAM      | 50      | 0         | 20.94                 | 20.91                        | 20.69                         | 20.53                  | 22.1                |  |                     |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  |                     |  | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |  |                     |  |
| 5               | QPSK       | 1       | 0         | 23.48                 | 23.39                        | 23.29                         | 23.35                  |                     |  | 24.6                |  |
| 5               | QPSK       | 1       | 12        | 23.47                 | 23.36                        | 23.24                         | 23.37                  |                     |  |                     |  |
| 5               | QPSK       | 1       | 24        | 23.41                 | 23.29                        | 23.21                         | 23.31                  |                     |  |                     |  |
| 5               | QPSK       | 12      | 0         | 23.11                 | 22.99                        | 22.88                         | 22.98                  |                     |  |                     |  |
| 5               | QPSK       | 12      | 7         | 23.08                 | 22.97                        | 22.87                         | 22.92                  | 24.1                |  |                     |  |
| 5               | QPSK       | 12      | 13        | 23.07                 | 22.91                        | 22.80                         | 22.90                  |                     |  |                     |  |
| 5               | QPSK       | 25      | 0         | 23.05                 | 22.93                        | 22.84                         | 22.93                  |                     |  |                     |  |
| 5               | 16QAM      | 1       | 0         | 23.09                 | 22.99                        | 22.92                         | 23.06                  |                     |  |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.19                 | 23.02                        | 22.98                         | 23.11                  | 24.1                |  |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.10                 | 22.99                        | 22.82                         | 22.93                  |                     |  |                     |  |
| 5               | 16QAM      | 12      | 0         | 22.04                 | 21.93                        | 21.89                         | 21.97                  |                     |  |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.07                 | 21.96                        | 21.82                         | 21.97                  |                     |  |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.05                 | 21.95                        | 21.83                         | 21.92                  | 23.1                |  |                     |  |
| 5               | 16QAM      | 25      | 0         | 22.10                 | 21.97                        | 21.85                         | 21.96                  |                     |  |                     |  |
| 5               | 64QAM      | 1       | 0         | 21.85                 | 21.77                        | 21.71                         | 21.82                  |                     |  |                     |  |
| 5               | 64QAM      | 1       | 12        | 21.86                 | 21.73                        | 21.69                         | 21.77                  |                     |  |                     |  |
| 5               | 64QAM      | 1       | 24        | 21.88                 | 21.76                        | 21.59                         | 21.73                  | 22.1                |  |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.10                 | 20.98                        | 20.97                         | 21.02                  |                     |  |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.14                 | 21.02                        | 20.92                         | 20.98                  |                     |  |                     |  |
| 5               | 64QAM      | 12      | 13        | 21.13                 | 21.03                        | 20.90                         | 20.97                  |                     |  |                     |  |

| Band 38         |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| Ann 0           |            |         |           |                     |                        |                      |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 37850               | 38000                  | 38150                |                     |
| Frequency (MHz) |            |         |           | 2580                | 2595                   | 2610                 |                     |
| 20              | QPSK       | 1       | 0         | 21.98               | 21.98                  | 21.86                | 23.2                |
| 20              | QPSK       | 1       | 49        | 21.99               | 22.00                  | 21.90                |                     |
| 20              | QPSK       | 1       | 99        | 22.00               | 21.98                  | 21.85                |                     |
| 20              | QPSK       | 50      | 0         | 22.07               | 22.08                  | 21.97                |                     |
| 20              | QPSK       | 50      | 24        | 22.15               | 22.07                  | 22.02                |                     |
| 20              | QPSK       | 50      | 50        | 22.15               | 22.13                  | 22.00                | 23.2                |
| 20              | QPSK       | 100     | 0         | 22.15               | 22.06                  | 22.04                |                     |
| 20              | 16QAM      | 1       | 0         | 22.12               | 22.11                  | 22.01                |                     |
| 20              | 16QAM      | 1       | 49        | 22.08               | 22.07                  | 21.98                | 23.2                |
| 20              | 16QAM      | 1       | 99        | 22.12               | 22.09                  | 21.97                |                     |
| 20              | 16QAM      | 50      | 0         | 22.12               | 22.09                  | 22.01                |                     |
| 20              | 16QAM      | 50      | 24        | 22.20               | 22.09                  | 22.06                | 23.2                |
| 20              | 16QAM      | 50      | 50        | 22.18               | 22.14                  | 22.06                |                     |
| 20              | 16QAM      | 100     | 0         | 22.16               | 22.08                  | 22.06                |                     |
| 20              | 64QAM      | 1       | 0         | 21.75               | 21.77                  | 21.66                | 23.2                |
| 20              | 64QAM      | 1       | 49        | 21.80               | 21.80                  | 21.68                |                     |
| 20              | 64QAM      | 1       | 99        | 21.80               | 21.79                  | 21.64                |                     |
| 20              | 64QAM      | 50      | 0         | 21.62               | 21.62                  | 21.41                | 22.7                |
| 20              | 64QAM      | 50      | 24        | 21.69               | 21.49                  | 21.49                |                     |
| 20              | 64QAM      | 50      | 50        | 21.58               | 21.56                  | 21.44                |                     |
| 20              | 64QAM      | 100     | 0         | 21.58               | 21.47                  | 21.46                |                     |
| Channel         |            |         |           | 37825               | 38000                  | 38175                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2577.5              | 2595                   | 2612.5               |                     |
| 15              | QPSK       | 1       | 0         | 21.94               | 21.92                  | 21.83                | 23.2                |
| 15              | QPSK       | 1       | 37        | 21.93               | 21.91                  | 21.82                |                     |
| 15              | QPSK       | 1       | 74        | 21.98               | 21.94                  | 21.82                |                     |
| 15              | QPSK       | 36      | 0         | 22.14               | 22.08                  | 21.94                |                     |
| 15              | QPSK       | 36      | 20        | 22.14               | 22.02                  | 21.94                |                     |
| 15              | QPSK       | 36      | 39        | 22.13               | 22.09                  | 21.98                | 23.2                |
| 15              | QPSK       | 75      | 0         | 22.15               | 22.03                  | 21.92                |                     |
| 15              | 16QAM      | 1       | 0         | 22.10               | 22.09                  | 22.00                |                     |
| 15              | 16QAM      | 1       | 37        | 22.05               | 22.02                  | 21.90                | 23.2                |
| 15              | 16QAM      | 1       | 74        | 22.13               | 22.10                  | 21.95                |                     |
| 15              | 16QAM      | 36      | 0         | 22.12               | 22.03                  | 21.95                |                     |
| 15              | 16QAM      | 36      | 20        | 22.09               | 22.02                  | 21.90                | 23.2                |
| 15              | 16QAM      | 36      | 39        | 22.08               | 22.08                  | 21.96                |                     |
| 15              | 16QAM      | 75      | 0         | 22.15               | 22.06                  | 21.97                |                     |
| 15              | 64QAM      | 1       | 0         | 21.74               | 21.72                  | 21.60                | 23.2                |
| 15              | 64QAM      | 1       | 37        | 21.81               | 21.78                  | 21.68                |                     |
| 15              | 64QAM      | 1       | 74        | 21.84               | 21.78                  | 21.64                |                     |
| 15              | 64QAM      | 36      | 0         | 21.59               | 21.49                  | 21.36                | 22.7                |
| 15              | 64QAM      | 36      | 20        | 21.55               | 21.45                  | 21.32                |                     |
| 15              | 64QAM      | 36      | 39        | 21.55               | 21.53                  | 21.41                |                     |
| 15              | 64QAM      | 75      | 0         | 21.67               | 21.47                  | 21.35                |                     |
| Channel         |            |         |           | 37800               | 38000                  | 38200                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2575                | 2595                   | 2615                 |                     |
| 10              | QPSK       | 1       | 0         | 21.91               | 21.91                  | 21.77                | 23.2                |
| 10              | QPSK       | 1       | 25        | 21.86               | 21.88                  | 21.73                |                     |
| 10              | QPSK       | 1       | 49        | 21.93               | 21.85                  | 21.81                |                     |
| 10              | QPSK       | 25      | 0         | 22.06               | 22.07                  | 21.88                |                     |
| 10              | QPSK       | 25      | 12        | 22.05               | 22.01                  | 21.90                |                     |
| 10              | QPSK       | 25      | 25        | 22.04               | 22.01                  | 21.88                | 23.2                |
| 10              | QPSK       | 50      | 0         | 22.09               | 21.98                  | 21.85                |                     |
| 10              | 16QAM      | 1       | 0         | 22.00               | 22.03                  | 21.90                |                     |
| 10              | 16QAM      | 1       | 25        | 21.95               | 21.96                  | 21.90                | 23.2                |
| 10              | 16QAM      | 1       | 49        | 22.11               | 22.03                  | 21.87                |                     |
| 10              | 16QAM      | 25      | 0         | 22.08               | 21.95                  | 21.94                |                     |
| 10              | 16QAM      | 25      | 12        | 22.06               | 21.98                  | 21.88                | 23.2                |
| 10              | 16QAM      | 25      | 25        | 21.99               | 22.01                  | 21.94                |                     |
| 10              | 16QAM      | 50      | 0         | 22.13               | 22.02                  | 21.87                |                     |
| 10              | 64QAM      | 1       | 0         | 21.74               | 21.62                  | 21.59                | 23.2                |
| 10              | 64QAM      | 1       | 25        | 21.71               | 21.68                  | 21.67                |                     |
| 10              | 64QAM      | 1       | 49        | 21.75               | 21.75                  | 21.56                |                     |
| 10              | 64QAM      | 25      | 0         | 21.49               | 21.46                  | 21.36                | 22.7                |
| 10              | 64QAM      | 25      | 12        | 21.51               | 21.43                  | 21.31                |                     |
| 10              | 64QAM      | 25      | 25        | 21.48               | 21.47                  | 21.38                |                     |
| 10              | 64QAM      | 50      | 0         | 21.51               | 21.41                  | 21.32                |                     |
| Channel         |            |         |           | 37775               | 38000                  | 38225                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2572.5              | 2595                   | 2617.5               |                     |
| 5               | QPSK       | 1       | 0         | 22.04               | 21.98                  | 21.90                | 23.2                |
| 5               | QPSK       | 1       | 12        | 22.03               | 21.99                  | 21.88                |                     |
| 5               | QPSK       | 1       | 24        | 22.04               | 21.98                  | 21.84                |                     |
| 5               | QPSK       | 12      | 0         | 22.15               | 22.07                  | 21.98                |                     |
| 5               | QPSK       | 12      | 7         | 22.19               | 22.16                  | 22.04                |                     |
| 5               | QPSK       | 12      | 13        | 22.14               | 22.16                  | 22.02                | 23.2                |
| 5               | QPSK       | 25      | 0         | 22.14               | 22.07                  | 21.98                |                     |
| 5               | 16QAM      | 1       | 0         | 22.16               | 22.09                  | 22.04                |                     |
| 5               | 16QAM      | 1       | 12        | 22.15               | 22.18                  | 22.03                | 23.2                |
| 5               | 16QAM      | 1       | 24        | 22.19               | 22.17                  | 22.03                |                     |
| 5               | 16QAM      | 12      | 0         | 22.13               | 22.07                  | 21.96                |                     |
| 5               | 16QAM      | 12      | 7         | 22.12               | 22.16                  | 22.00                | 23.2                |
| 5               | 16QAM      | 12      | 13        | 22.12               | 22.13                  | 21.98                |                     |
| 5               | 16QAM      | 25      | 0         | 22.18               | 22.08                  | 22.00                |                     |
| 5               | 64QAM      | 1       | 0         | 21.92               | 21.90                  | 21.79                | 23.2                |
| 5               | 64QAM      | 1       | 12        | 21.89               | 21.91                  | 21.79                |                     |
| 5               | 64QAM      | 1       | 24        | 21.92               | 21.93                  | 21.80                |                     |
| 5               | 64QAM      | 12      | 0         | 21.58               | 21.49                  | 21.41                | 22.7                |
| 5               | 64QAM      | 12      | 7         | 21.56               | 21.56                  | 21.47                |                     |
| 5               | 64QAM      | 12      | 13        | 21.57               | 21.53                  | 21.41                |                     |
| 5               | 64QAM      | 25      | 0         | 21.60               | 21.53                  | 21.45                |                     |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|---------------------|
| Ann 0           |            |         |           |                     |                            |                        |                             |                      |                     |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq |                     | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |                     |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |                     |
| 20              | QPSK       | 1       | 0         | 21.73               | 21.74                      | 21.85                  | 21.48                       | 21.20                | 23.2                |                     |
| 20              | QPSK       | 1       | 49        | 21.73               | 21.76                      | 21.79                  | 21.73                       | 21.65                |                     |                     |
| 20              | QPSK       | 1       | 99        | 21.69               | 21.77                      | 21.85                  | 21.28                       | 21.45                |                     |                     |
| 20              | QPSK       | 50      | 0         | 21.81               | 21.84                      | 21.86                  | 21.70                       | 21.52                | 23.2                |                     |
| 20              | QPSK       | 50      | 24        | 21.90               | 21.95                      | 21.96                  | 21.85                       | 21.68                |                     |                     |
| 20              | QPSK       | 50      | 50        | 21.85               | 21.93                      | 21.93                  | 21.67                       | 21.65                |                     |                     |
| 20              | QPSK       | 100     | 0         | 21.88               | 21.95                      | 21.93                  | 21.73                       | 21.58                | 23.2                |                     |
| 20              | 16QAM      | 1       | 0         | 21.90               | 21.83                      | 21.92                  | 21.59                       | 21.27                |                     |                     |
| 20              | 16QAM      | 1       | 49        | 21.83               | 21.84                      | 21.87                  | 21.85                       | 21.70                |                     |                     |
| 20              | 16QAM      | 1       | 99        | 21.83               | 21.89                      | 21.95                  | 21.38                       | 21.57                | 23.2                |                     |
| 20              | 16QAM      | 50      | 0         | 21.74               | 21.73                      | 21.76                  | 21.73                       | 21.54                |                     |                     |
| 20              | 16QAM      | 50      | 24        | 21.80               | 21.84                      | 21.85                  | 21.87                       | 21.69                |                     |                     |
| 20              | 16QAM      | 50      | 50        | 21.79               | 21.82                      | 21.84                  | 21.70                       | 21.69                | 23.2                |                     |
| 20              | 16QAM      | 100     | 0         | 21.82               | 21.83                      | 21.84                  | 21.75                       | 21.62                |                     |                     |
| 20              | 64QAM      | 1       | 0         | 21.46               | 21.38                      | 21.48                  | 21.24                       | 21.20                |                     |                     |
| 20              | 64QAM      | 1       | 49        | 21.46               | 21.42                      | 21.49                  | 21.60                       | 21.45                | 23.2                |                     |
| 20              | 64QAM      | 1       | 99        | 21.51               | 21.46                      | 21.52                  | 21.20                       | 21.28                |                     |                     |
| 20              | 64QAM      | 50      | 0         | 20.76               | 20.74                      | 20.78                  | 20.85                       | 20.70                | 22.7                |                     |
| 20              | 64QAM      | 50      | 24        | 20.86               | 20.85                      | 20.87                  | 20.86                       | 20.80                |                     |                     |
| 20              | 64QAM      | 50      | 50        | 20.79               | 20.82                      | 20.85                  | 20.81                       | 20.81                |                     |                     |
| 20              | 64QAM      | 100     | 0         | 20.82               | 20.83                      | 20.85                  | 20.87                       | 20.72                | Tune-up limit (dBm) |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |                     |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |                     |
| 15              | QPSK       | 1       | 0         | 21.73               | 21.77                      | 21.79                  | 21.61                       | 21.32                | 23.2                |                     |
| 15              | QPSK       | 1       | 37        | 21.69               | 21.75                      | 21.73                  | 21.75                       | 21.54                |                     |                     |
| 15              | QPSK       | 1       | 74        | 21.66               | 21.85                      | 21.86                  | 21.48                       | 21.54                |                     |                     |
| 15              | QPSK       | 36      | 0         | 21.86               | 21.85                      | 21.85                  | 21.71                       | 21.56                | 23.2                |                     |
| 15              | QPSK       | 36      | 20        | 21.85               | 21.91                      | 21.91                  | 21.74                       | 21.67                |                     |                     |
| 15              | QPSK       | 36      | 39        | 21.84               | 21.93                      | 21.93                  | 21.71                       | 21.64                |                     |                     |
| 15              | QPSK       | 75      | 0         | 21.87               | 21.93                      | 21.94                  | 21.68                       | 21.60                | 23.2                |                     |
| 15              | 16QAM      | 1       | 0         | 21.87               | 21.85                      | 21.89                  | 21.75                       | 21.44                |                     |                     |
| 15              | 16QAM      | 1       | 37        | 21.76               | 21.75                      | 21.82                  | 21.82                       | 21.68                |                     |                     |
| 15              | 16QAM      | 1       | 74        | 21.87               | 21.90                      | 21.90                  | 21.62                       | 21.67                | 23.2                |                     |
| 15              | 16QAM      | 36      | 0         | 21.74               | 21.69                      | 21.69                  | 21.71                       | 21.52                |                     |                     |
| 15              | 16QAM      | 36      | 20        | 21.75               | 21.73                      | 21.78                  | 21.73                       | 21.63                |                     |                     |
| 15              | 16QAM      | 36      | 39        | 21.72               | 21.77                      | 21.76                  | 21.70                       | 21.64                | 23.2                |                     |
| 15              | 16QAM      | 75      | 0         | 21.82               | 21.81                      | 21.82                  | 21.73                       | 21.63                |                     |                     |
| 15              | 64QAM      | 1       | 0         | 21.45               | 21.38                      | 21.44                  | 21.45                       | 21.20                | 23.2                |                     |
| 15              | 64QAM      | 1       | 37        | 21.47               | 21.45                      | 21.48                  | 21.57                       | 21.45                |                     |                     |
| 15              | 64QAM      | 1       | 74        | 21.49               | 21.55                      | 21.55                  | 21.29                       | 21.43                |                     |                     |
| 15              | 64QAM      | 36      | 0         | 20.77               | 20.75                      | 20.76                  | 20.84                       | 20.70                | 22.7                |                     |
| 15              | 64QAM      | 36      | 20        | 20.77               | 20.82                      | 20.81                  | 20.88                       | 20.79                |                     |                     |
| 15              | 64QAM      | 36      | 39        | 20.76               | 20.81                      | 20.82                  | 20.83                       | 20.80                |                     |                     |
| 15              | 64QAM      | 75      | 0         | 20.81               | 20.80                      | 20.82                  | 20.83                       | 20.74                | Tune-up limit (dBm) |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |                     |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |                     |
| 10              | QPSK       | 1       | 0         | 21.63               | 21.71                      | 21.73                  | 21.52                       | 21.30                | 23.2                |                     |
| 10              | QPSK       | 1       | 25        | 21.64               | 21.69                      | 21.64                  | 21.65                       | 21.46                |                     |                     |
| 10              | QPSK       | 1       | 49        | 21.62               | 21.79                      | 21.76                  | 21.41                       | 21.52                |                     |                     |
| 10              | QPSK       | 25      | 0         | 21.85               | 21.80                      | 21.80                  | 21.65                       | 21.53                | 23.2                |                     |
| 10              | QPSK       | 25      | 12        | 21.80               | 21.86                      | 21.82                  | 21.66                       | 21.59                |                     |                     |
| 10              | QPSK       | 25      | 25        | 21.84               | 21.87                      | 21.87                  | 21.61                       | 21.58                |                     |                     |
| 10              | QPSK       | 50      | 0         | 21.81               | 21.91                      | 21.94                  | 21.61                       | 21.57                | 23.2                |                     |
| 10              | 16QAM      | 1       | 0         | 21.79               | 21.76                      | 21.87                  | 21.67                       | 21.44                |                     |                     |
| 10              | 16QAM      | 1       | 25        | 21.74               | 21.68                      | 21.73                  | 21.76                       | 21.62                |                     |                     |
| 10              | 16QAM      | 1       | 49        | 21.67               | 21.88                      | 21.86                  | 21.56                       | 21.62                | 23.2                |                     |
| 10              | 16QAM      | 25      | 0         | 21.71               | 21.68                      | 21.61                  | 21.61                       | 21.45                |                     |                     |
| 10              | 16QAM      | 25      | 12        | 21.86               | 21.69                      | 21.75                  | 21.66                       | 21.57                |                     |                     |
| 10              | 16QAM      | 25      | 25        | 21.69               | 21.71                      | 21.67                  | 21.65                       | 21.58                | 23.2                |                     |
| 10              | 16QAM      | 50      | 0         | 21.72               | 21.75                      | 21.80                  | 21.67                       | 21.61                |                     |                     |
| 10              | 64QAM      | 1       | 0         | 21.45               | 21.31                      | 21.43                  | 21.41                       | 21.25                | 23.2                |                     |
| 10              | 64QAM      | 1       | 25        | 21.47               | 21.35                      | 21.48                  | 21.48                       | 21.40                |                     |                     |
| 10              | 64QAM      | 1       | 49        | 21.45               | 21.46                      | 21.49                  | 21.27                       | 21.34                |                     |                     |
| 10              | 64QAM      | 25      | 0         | 20.72               | 20.73                      | 20.71                  | 20.84                       | 20.77                | 22.7                |                     |
| 10              | 64QAM      | 25      | 12        | 20.75               | 20.80                      | 20.79                  | 20.80                       | 20.77                |                     |                     |
| 10              | 64QAM      | 25      | 25        | 20.72               | 20.72                      | 20.76                  | 20.76                       | 20.76                |                     |                     |
| 10              | 64QAM      | 50      | 0         | 20.73               | 20.77                      | 20.77                  | 20.79                       | 20.75                | Tune-up limit (dBm) |                     |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                |                     |                     |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.3                      | 2687.5               |                     |                     |
| 5               | QPSK       | 1       | 0         | 21.89               | 21.72                      | 21.75                  | 21.74                       | 21.58                | 23.2                |                     |
| 5               | QPSK       | 1       | 12        | 21.79               | 21.75                      | 21.81                  | 21.76                       | 21.57                |                     |                     |
| 5               | QPSK       | 1       | 24        | 21.81               | 21.78                      | 21.81                  | 21.68                       | 21.52                |                     |                     |
| 5               | QPSK       | 12      | 0         | 21.94               | 21.91                      | 21.92                  | 21.79                       | 21.70                | 23.2                |                     |
| 5               | QPSK       | 12      | 7         | 21.95               | 21.95                      | 21.97                  | 21.85                       | 21.71                |                     |                     |
| 5               | QPSK       | 12      | 13        | 21.93               | 21.91                      | 21.94                  | 21.83                       | 21.69                |                     |                     |
| 5               | QPSK       | 25      | 0         | 21.92               | 21.91                      | 21.95                  | 21.82                       | 21.71                | 23.2                |                     |
| 5               | 16QAM      | 1       | 0         | 21.96               | 21.84                      | 21.89                  | 21.85                       | 21.74                |                     |                     |
| 5               | 16QAM      | 1       | 12        | 21.94               | 21.95                      | 22.00                  | 21.98                       | 21.82                |                     |                     |
| 5               | 16QAM      | 1       | 24        | 21.98               | 21.92                      | 21.97                  | 21.88                       | 21.70                | 23.2                |                     |
| 5               | 16QAM      | 12      | 0         | 21.79               | 21.75                      | 21.83                  | 21.82                       | 21.67                |                     |                     |
| 5               | 16QAM      | 12      | 7         | 21.82               | 21.83                      | 21.83                  | 21.82                       | 21.72                |                     |                     |
| 5               | 16QAM      | 12      | 13        | 21.76               | 21.79                      | 21.79                  | 21.83                       | 21.65                | 23.2                |                     |
| 5               | 16QAM      | 25      | 0         | 21.84               | 21.83                      | 21.86                  | 21.86                       | 21.72                |                     |                     |
| 5               | 64QAM      | 1       | 0         | 21.64               | 21.47                      | 21.54                  | 21.60                       | 21.43                | 23.2                |                     |
| 5               | 64QAM      | 1       | 12        | 21.60               | 21.54                      | 21.60                  | 21.65                       | 21.45                |                     |                     |
| 5               | 64QAM      | 1       | 24        | 21.63               | 21.56                      | 21.63                  | 21.61                       | 21.43                |                     |                     |
| 5               | 64QAM      | 12      | 0         | 20.85               | 20.82                      | 20.87                  | 20.97                       | 20.82                | 22.7                |                     |
| 5               | 64QAM      | 12      | 7         | 20.88               | 20.84                      | 20.87                  | 20.98                       | 20.87                |                     |                     |
| 5               | 64QAM      | 12      | 13        | 20.83               | 20.81                      | 20.87                  | 21.02                       | 20.81                |                     |                     |
| 5               | 64QAM      | 25      | 0         | 20.87               | 20.85                      | 20.90                  | 20.96                       | 20.87                |                     |                     |



| Band 41 HPUE    |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ant 9           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 23.33               | 23.26                      | 23.40                  | 23.10                       | 23.00                | 25                  |  |
| 20              | QPSK       | 1       | 49        | 23.29               | 23.31                      | 23.33                  | 23.36                       | 23.27                |                     |  |
| 20              | QPSK       | 1       | 99        | 23.26               | 23.34                      | 23.41                  | 23.00                       | 23.08                |                     |  |
| 20              | QPSK       | 50      | 0         | 23.49               | 23.49                      | 23.54                  | 23.43                       | 23.26                |                     |  |
| 20              | QPSK       | 50      | 24        | 23.56               | 23.61                      | 23.61                  | 23.57                       | 23.39                | 25                  |  |
| 20              | QPSK       | 50      | 50        | 23.53               | 23.58                      | 23.62                  | 23.40                       | 23.39                |                     |  |
| 20              | QPSK       | 100     | 0         | 23.58               | 23.60                      | 23.61                  | 23.46                       | 23.31                |                     |  |
| 20              | 16QAM      | 1       | 0         | 23.70               | 23.68                      | 23.72                  | 23.47                       | 23.10                |                     |  |
| 20              | 16QAM      | 1       | 49        | 23.70               | 23.72                      | 23.74                  | 23.76                       | 23.52                | 25                  |  |
| 20              | 16QAM      | 1       | 99        | 23.70               | 23.71                      | 23.77                  | 23.26                       | 23.40                |                     |  |
| 20              | 16QAM      | 50      | 0         | 23.64               | 23.54                      | 23.57                  | 23.47                       | 23.29                |                     |  |
| 20              | 16QAM      | 50      | 24        | 23.64               | 23.65                      | 23.68                  | 23.60                       | 23.41                |                     |  |
| 20              | 16QAM      | 50      | 50        | 23.69               | 23.64                      | 23.65                  | 23.44                       | 23.41                | 25                  |  |
| 20              | 16QAM      | 100     | 0         | 23.62               | 23.65                      | 23.65                  | 23.50                       | 23.33                |                     |  |
| 20              | 64QAM      | 1       | 0         | 23.52               | 23.45                      | 23.52                  | 23.26                       | 23.00                |                     |  |
| 20              | 64QAM      | 1       | 49        | 23.50               | 23.49                      | 23.55                  | 23.56                       | 23.38                |                     |  |
| 20              | 64QAM      | 1       | 99        | 23.64               | 23.53                      | 23.59                  | 23.09                       | 23.28                | 24.5                |  |
| 20              | 64QAM      | 50      | 0         | 22.53               | 22.54                      | 22.60                  | 22.79                       | 22.59                |                     |  |
| 20              | 64QAM      | 50      | 24        | 22.63               | 22.68                      | 22.66                  | 22.52                       | 22.72                |                     |  |
| 20              | 64QAM      | 50      | 50        | 22.59               | 22.63                      | 22.67                  | 22.74                       | 22.73                |                     |  |
| 20              | 64QAM      | 100     | 0         | 22.63               | 22.62                      | 22.68                  | 22.80                       | 22.64                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 23.43               | 23.40                      | 23.45                  | 23.31                       | 23.03                | 25                  |  |
| 15              | QPSK       | 1       | 37        | 23.37               | 23.43                      | 23.46                  | 23.41                       | 23.24                |                     |  |
| 15              | QPSK       | 1       | 74        | 23.35               | 23.52                      | 23.51                  | 23.19                       | 23.22                |                     |  |
| 15              | QPSK       | 36      | 0         | 23.58               | 23.51                      | 23.55                  | 23.46                       | 23.30                |                     |  |
| 15              | QPSK       | 36      | 20        | 23.58               | 23.61                      | 23.62                  | 23.49                       | 23.37                | 25                  |  |
| 15              | QPSK       | 36      | 39        | 23.55               | 23.60                      | 23.62                  | 23.47                       | 23.37                |                     |  |
| 15              | QPSK       | 75      | 0         | 23.50               | 23.61                      | 23.62                  | 23.44                       | 23.36                |                     |  |
| 15              | 16QAM      | 1       | 0         | 23.73               | 23.70                      | 23.71                  | 23.62                       | 23.31                |                     |  |
| 15              | 16QAM      | 1       | 37        | 23.63               | 23.65                      | 23.68                  | 23.72                       | 23.54                | 25                  |  |
| 15              | 16QAM      | 1       | 74        | 23.67               | 23.81                      | 23.80                  | 23.49                       | 23.50                |                     |  |
| 15              | 16QAM      | 36      | 0         | 23.67               | 23.51                      | 23.52                  | 23.43                       | 23.26                |                     |  |
| 15              | 16QAM      | 36      | 20        | 23.67               | 23.59                      | 23.60                  | 23.45                       | 23.39                |                     |  |
| 15              | 16QAM      | 36      | 39        | 23.64               | 23.58                      | 23.59                  | 23.44                       | 23.37                | 25                  |  |
| 15              | 16QAM      | 75      | 0         | 23.61               | 23.63                      | 23.65                  | 23.46                       | 23.36                |                     |  |
| 15              | 64QAM      | 1       | 0         | 23.53               | 23.48                      | 23.50                  | 23.41                       | 23.11                |                     |  |
| 15              | 64QAM      | 1       | 37        | 23.64               | 23.54                      | 23.55                  | 23.54                       | 23.35                |                     |  |
| 15              | 64QAM      | 1       | 74        | 23.63               | 23.68                      | 23.67                  | 23.30                       | 23.35                | 24.5                |  |
| 15              | 64QAM      | 36      | 0         | 22.59               | 22.53                      | 22.56                  | 22.77                       | 22.62                |                     |  |
| 15              | 64QAM      | 36      | 20        | 22.59               | 22.54                      | 22.65                  | 22.81                       | 22.73                |                     |  |
| 15              | 64QAM      | 36      | 39        | 22.56               | 22.63                      | 22.63                  | 22.79                       | 22.70                |                     |  |
| 15              | 64QAM      | 75      | 0         | 22.64               | 22.63                      | 22.66                  | 22.73                       | 22.65                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 23.49               | 23.36                      | 23.39                  | 23.17                       | 23.01                | 25                  |  |
| 10              | QPSK       | 1       | 25        | 23.38               | 23.38                      | 23.43                  | 23.38                       | 23.20                |                     |  |
| 10              | QPSK       | 1       | 49        | 23.39               | 23.49                      | 23.43                  | 23.20                       | 23.04                |                     |  |
| 10              | QPSK       | 25      | 0         | 23.61               | 23.52                      | 23.58                  | 23.50                       | 23.37                |                     |  |
| 10              | QPSK       | 25      | 12        | 23.64               | 23.63                      | 23.67                  | 23.62                       | 23.48                | 25                  |  |
| 10              | QPSK       | 25      | 25        | 23.58               | 23.64                      | 23.67                  | 23.54                       | 23.36                |                     |  |
| 10              | QPSK       | 50      | 0         | 23.61               | 23.63                      | 23.67                  | 23.56                       | 23.36                |                     |  |
| 10              | 16QAM      | 1       | 0         | 23.66               | 23.82                      | 23.84                  | 23.52                       | 23.38                |                     |  |
| 10              | 16QAM      | 1       | 25        | 23.76               | 23.83                      | 23.80                  | 23.80                       | 23.58                | 25                  |  |
| 10              | 16QAM      | 1       | 49        | 23.77               | 23.82                      | 23.82                  | 23.54                       | 23.31                |                     |  |
| 10              | 16QAM      | 25      | 0         | 23.68               | 23.54                      | 23.59                  | 23.50                       | 23.36                |                     |  |
| 10              | 16QAM      | 25      | 12        | 23.66               | 23.66                      | 23.71                  | 23.65                       | 23.48                |                     |  |
| 10              | 16QAM      | 25      | 25        | 23.62               | 23.61                      | 23.65                  | 23.55                       | 23.33                | 25                  |  |
| 10              | 16QAM      | 50      | 0         | 23.66               | 23.67                      | 23.70                  | 23.57                       | 23.39                |                     |  |
| 10              | 64QAM      | 1       | 0         | 23.77               | 23.62                      | 23.67                  | 23.41                       | 23.27                |                     |  |
| 10              | 64QAM      | 1       | 25        | 23.76               | 23.74                      | 23.77                  | 23.65                       | 23.54                |                     |  |
| 10              | 64QAM      | 1       | 49        | 23.69               | 23.73                      | 23.73                  | 23.39                       | 23.23                | 24.5                |  |
| 10              | 64QAM      | 25      | 0         | 22.71               | 22.65                      | 22.66                  | 22.86                       | 22.73                |                     |  |
| 10              | 64QAM      | 25      | 12        | 22.77               | 22.76                      | 22.79                  | 23.00                       | 22.84                |                     |  |
| 10              | 64QAM      | 25      | 25        | 22.72               | 22.72                      | 22.76                  | 22.89                       | 22.70                |                     |  |
| 10              | 64QAM      | 50      | 0         | 22.65               | 22.67                      | 22.70                  | 22.87                       | 22.69                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 23.47               | 23.28                      | 23.31                  | 23.16                       | 23.04                | 25                  |  |
| 5               | QPSK       | 1       | 12        | 23.34               | 23.36                      | 23.41                  | 23.34                       | 23.17                |                     |  |
| 5               | QPSK       | 1       | 24        | 23.36               | 23.43                      | 23.43                  | 23.17                       | 23.01                |                     |  |
| 5               | QPSK       | 12      | 0         | 23.56               | 23.50                      | 23.58                  | 23.42                       | 23.27                |                     |  |
| 5               | QPSK       | 12      | 7         | 23.56               | 23.53                      | 23.59                  | 23.55                       | 23.46                | 25                  |  |
| 5               | QPSK       | 12      | 13        | 23.57               | 23.58                      | 23.63                  | 23.54                       | 23.32                |                     |  |
| 5               | QPSK       | 25      | 0         | 23.60               | 23.59                      | 23.59                  | 23.55                       | 23.27                |                     |  |
| 5               | 16QAM      | 1       | 0         | 23.77               | 23.72                      | 23.74                  | 23.52                       | 23.38                |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.67               | 23.78                      | 23.72                  | 23.75                       | 23.52                | 25                  |  |
| 5               | 16QAM      | 1       | 24        | 23.77               | 23.72                      | 23.72                  | 23.51                       | 23.29                |                     |  |
| 5               | 16QAM      | 12      | 0         | 23.64               | 23.50                      | 23.48                  | 23.45                       | 23.34                |                     |  |
| 5               | 16QAM      | 12      | 7         | 23.61               | 23.64                      | 23.64                  | 23.56                       | 23.45                |                     |  |
| 5               | 16QAM      | 12      | 13        | 23.59               | 23.57                      | 23.62                  | 23.47                       | 23.32                | 25                  |  |
| 5               | 16QAM      | 25      | 0         | 23.64               | 23.66                      | 23.69                  | 23.53                       | 23.36                |                     |  |
| 5               | 64QAM      | 1       | 0         | 23.73               | 23.61                      | 23.65                  | 23.40                       | 23.27                |                     |  |
| 5               | 64QAM      | 1       | 12        | 23.69               | 23.69                      | 23.67                  | 23.57                       | 23.54                |                     |  |
| 5               | 64QAM      | 1       | 24        | 23.69               | 23.69                      | 23.70                  | 23.35                       | 23.13                | 24.5                |  |
| 5               | 64QAM      | 12      | 0         | 22.70               | 22.62                      | 22.59                  | 22.76                       | 22.73                |                     |  |
| 5               | 64QAM      | 12      | 7         | 22.73               | 22.74                      | 22.75                  | 22.93                       | 22.75                |                     |  |
| 5               | 64QAM      | 12      | 13        | 22.69               | 22.65                      | 22.67                  | 22.89                       | 22.62                |                     |  |
| 5               | 64QAM      | 25      | 0         | 22.67               | 22.62                      | 22.63                  | 22.79                       | 22.63                |                     |  |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|--|
| Ant 2           |            |         |           |                       |                              |                               |                        |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 21.18                 | 21.13                        | 21.00                         | 20.75                  | 22.3                |  |  |
| 20              | QPSK       | 1       | 49        | 20.99                 | 20.87                        | 20.75                         | 20.53                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 20.96                 | 20.85                        | 20.69                         | 20.41                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 20.83                 | 20.67                        | 20.58                         | 20.36                  |                     |  |  |
| 20              | QPSK       | 50      | 24        | 20.77                 | 20.54                        | 20.52                         | 20.29                  | 21.3                |  |  |
| 20              | QPSK       | 50      | 50        | 20.62                 | 20.46                        | 20.36                         | 20.09                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 20.78                 | 20.54                        | 20.49                         | 20.29                  |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 20.89                 | 20.81                        | 20.71                         | 20.49                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 20.65                 | 20.51                        | 20.41                         | 20.19                  | 21.3                |  |  |
| 20              | 16QAM      | 1       | 99        | 20.65                 | 20.55                        | 20.39                         | 20.13                  |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 19.87                 | 19.72                        | 19.60                         | 19.39                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 19.79                 | 19.56                        | 19.54                         | 19.31                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 19.66                 | 19.49                        | 19.38                         | 19.14                  | 20.3                |  |  |
| 20              | 16QAM      | 100     | 0         | 19.79                 | 19.57                        | 19.53                         | 19.29                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 19.62                 | 19.56                        | 19.45                         | 19.25                  |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 19.45                 | 19.31                        | 19.17                         | 18.95                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 19.37                 | 19.23                        | 19.11                         | 18.84                  | 19.3                |  |  |
| 20              | 64QAM      | 50      | 0         | 18.85                 | 18.72                        | 18.61                         | 18.40                  |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 18.83                 | 18.59                        | 18.55                         | 18.31                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 18.68                 | 18.53                        | 18.39                         | 18.15                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 18.80                 | 18.57                        | 18.53                         | 18.30                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 21.12                 | 21.01                        | 20.89                         | 20.65                  | 22.3                |  |  |
| 15              | QPSK       | 1       | 37        | 20.95                 | 20.87                        | 20.73                         | 20.41                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 20.93                 | 20.87                        | 20.70                         | 20.38                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 20.79                 | 20.68                        | 20.54                         | 20.31                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 20.74                 | 20.62                        | 20.49                         | 20.22                  | 21.3                |  |  |
| 15              | QPSK       | 36      | 39        | 20.62                 | 20.47                        | 20.34                         | 20.14                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 20.68                 | 20.61                        | 20.49                         | 20.24                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 20.83                 | 20.76                        | 20.62                         | 20.39                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 20.61                 | 20.48                        | 20.38                         | 20.09                  | 21.3                |  |  |
| 15              | 16QAM      | 1       | 74        | 20.70                 | 20.59                        | 20.43                         | 20.19                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 19.78                 | 19.63                        | 19.52                         | 19.27                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 19.71                 | 19.60                        | 19.44                         | 19.19                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 19.59                 | 19.47                        | 19.32                         | 19.13                  | 20.3                |  |  |
| 15              | 16QAM      | 75      | 0         | 19.71                 | 19.65                        | 19.50                         | 19.27                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 19.54                 | 19.51                        | 19.39                         | 19.12                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 19.42                 | 19.32                        | 19.18                         | 18.95                  |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 19.41                 | 19.29                        | 19.15                         | 18.89                  | 19.3                |  |  |
| 15              | 64QAM      | 36      | 0         | 18.81                 | 18.66                        | 18.55                         | 18.32                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 18.78                 | 18.63                        | 18.51                         | 18.24                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 18.65                 | 18.51                        | 18.35                         | 18.17                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 18.70                 | 18.64                        | 18.49                         | 18.25                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3525                  | 3577.5                       | 3612.5                        | 3669                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 21.10                 | 20.93                        | 20.80                         | 20.55                  | 22.3                |  |  |
| 10              | QPSK       | 1       | 25        | 20.94                 | 20.84                        | 20.67                         | 20.39                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 20.84                 | 20.83                        | 20.64                         | 20.30                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 20.77                 | 20.65                        | 20.46                         | 20.31                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 20.67                 | 20.52                        | 20.42                         | 20.15                  | 21.3                |  |  |
| 10              | QPSK       | 25      | 25        | 20.59                 | 20.37                        | 20.32                         | 20.14                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 20.67                 | 20.55                        | 20.40                         | 20.16                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 20.82                 | 20.70                        | 20.60                         | 20.35                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 20.53                 | 20.47                        | 20.30                         | 20.06                  | 21.3                |  |  |
| 10              | 16QAM      | 1       | 49        | 20.66                 | 20.58                        | 20.33                         | 20.19                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 19.76                 | 19.62                        | 19.45                         | 19.23                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 19.62                 | 19.59                        | 19.44                         | 19.16                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 19.49                 | 19.47                        | 19.27                         | 19.10                  | 20.3                |  |  |
| 10              | 16QAM      | 50      | 0         | 19.68                 | 19.55                        | 19.44                         | 19.23                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 19.54                 | 19.46                        | 19.34                         | 19.03                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 19.39                 | 19.26                        | 19.12                         | 18.92                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 19.35                 | 19.27                        | 19.09                         | 18.85                  | 19.3                |  |  |
| 10              | 64QAM      | 25      | 0         | 18.72                 | 18.61                        | 18.53                         | 18.26                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 18.69                 | 18.57                        | 18.45                         | 18.20                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 18.56                 | 18.48                        | 18.30                         | 18.12                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 18.69                 | 18.55                        | 18.47                         | 18.17                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3524.5                | 3577                         | 3613                          | 3677.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 21.03                 | 20.98                        | 20.93                         | 21.03                  | 22.3                |  |  |
| 5               | QPSK       | 1       | 12        | 20.98                 | 20.93                        | 20.89                         | 20.97                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 20.98                 | 20.85                        | 20.77                         | 20.86                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 20.76                 | 20.66                        | 20.61                         | 20.71                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 20.74                 | 20.69                        | 20.53                         | 20.62                  | 21.3                |  |  |
| 5               | QPSK       | 12      | 13        | 20.70                 | 20.61                        | 20.55                         | 20.60                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 20.70                 | 20.64                        | 20.52                         | 20.61                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 20.78                 | 20.66                        | 20.66                         | 20.73                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 20.81                 | 20.75                        | 20.63                         | 20.75                  | 21.3                |  |  |
| 5               | 16QAM      | 1       | 24        | 20.77                 | 20.67                        | 20.52                         | 20.65                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 19.71                 | 19.65                        | 19.62                         | 19.70                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 19.74                 | 19.68                        | 19.56                         | 19.63                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 19.72                 | 19.65                        | 19.53                         | 19.57                  | 20.3                |  |  |
| 5               | 16QAM      | 25      | 0         | 19.76                 | 19.67                        | 19.56                         | 19.68                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 19.50                 | 19.47                        | 19.43                         | 19.46                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 19.49                 | 19.40                        | 19.36                         | 19.45                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 19.53                 | 19.43                        | 19.33                         | 19.43                  | 19.3                |  |  |
| 5               | 64QAM      | 12      | 0         | 18.77                 | 18.74                        | 18.66                         | 18.73                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 18.79                 | 18.69                        | 18.64                         | 18.71                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 18.78                 | 18.67                        | 18.54                         | 18.63                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 18.81                 | 18.70                        | 18.60                         | 18.68                  | Tune-up limit (dBm) |  |  |





| Band 38         |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ann 2           |            |         |           |                             |                                |                              |                           |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37850                       | 38000                          | 38150                        |                           |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                           |
| 20              | QPSK       | 1       | 0         | 24.48                       | 24.44                          | 24.35                        | 25.1                      |
| 20              | QPSK       | 1       | 49        | 24.49                       | 24.48                          | 24.36                        |                           |
| 20              | QPSK       | 1       | 99        | 24.48                       | 24.44                          | 24.35                        |                           |
| 20              | QPSK       | 50      | 0         | 24.07                       | 24.06                          | 23.96                        | 24.7                      |
| 20              | QPSK       | 50      | 24        | 24.19                       | 24.09                          | 24.05                        |                           |
| 20              | QPSK       | 50      | 50        | 24.15                       | 24.08                          | 24.02                        |                           |
| 20              | QPSK       | 100     | 0         | 24.16                       | 24.03                          | 24.03                        | 24.7                      |
| 20              | 16QAM      | 1       | 0         | 24.09                       | 24.04                          | 23.97                        |                           |
| 20              | 16QAM      | 1       | 49        | 24.07                       | 24.02                          | 23.95                        |                           |
| 20              | 16QAM      | 1       | 99        | 24.07                       | 24.01                          | 23.93                        | 23.7                      |
| 20              | 16QAM      | 50      | 0         | 23.11                       | 23.10                          | 22.99                        |                           |
| 20              | 16QAM      | 50      | 24        | 23.19                       | 23.07                          | 23.07                        |                           |
| 20              | 16QAM      | 50      | 50        | 23.18                       | 23.13                          | 23.03                        | 22.7                      |
| 20              | 16QAM      | 100     | 0         | 23.18                       | 23.07                          | 23.05                        |                           |
| 20              | 64QAM      | 1       | 0         | 22.80                       | 22.75                          | 22.68                        |                           |
| 20              | 64QAM      | 1       | 49        | 22.82                       | 22.75                          | 22.69                        | 22.7                      |
| 20              | 64QAM      | 1       | 99        | 22.81                       | 22.76                          | 22.64                        |                           |
| 20              | 64QAM      | 50      | 0         | 22.12                       | 22.10                          | 22.00                        |                           |
| 20              | 64QAM      | 50      | 24        | 22.20                       | 22.09                          | 22.09                        | 22.7                      |
| 20              | 64QAM      | 50      | 50        | 22.15                       | 22.14                          | 22.06                        |                           |
| 20              | 64QAM      | 100     | 0         | 22.20                       | 22.08                          | 22.07                        |                           |
| Channel         |            |         |           | 37825                       | 38000                          | 38175                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                           |
| 15              | QPSK       | 1       | 0         | 24.47                       | 24.43                          | 24.26                        | 25.1                      |
| 15              | QPSK       | 1       | 37        | 24.47                       | 24.46                          | 24.35                        |                           |
| 15              | QPSK       | 1       | 74        | 24.43                       | 24.38                          | 24.34                        |                           |
| 15              | QPSK       | 36      | 0         | 24.03                       | 24.00                          | 23.93                        | 24.7                      |
| 15              | QPSK       | 36      | 20        | 24.18                       | 23.96                          | 24.01                        |                           |
| 15              | QPSK       | 36      | 39        | 24.09                       | 24.03                          | 24.00                        |                           |
| 15              | QPSK       | 75      | 0         | 24.11                       | 23.99                          | 23.97                        | 24.7                      |
| 15              | 16QAM      | 1       | 0         | 24.06                       | 24.04                          | 23.93                        |                           |
| 15              | 16QAM      | 1       | 37        | 24.05                       | 24.01                          | 23.88                        |                           |
| 15              | 16QAM      | 1       | 74        | 24.00                       | 24.01                          | 23.91                        | 23.7                      |
| 15              | 16QAM      | 36      | 0         | 23.04                       | 23.00                          | 22.96                        |                           |
| 15              | 16QAM      | 36      | 20        | 23.15                       | 23.03                          | 23.03                        |                           |
| 15              | 16QAM      | 36      | 39        | 23.11                       | 23.12                          | 23.00                        | 23.7                      |
| 15              | 16QAM      | 75      | 0         | 23.15                       | 22.98                          | 23.02                        |                           |
| 15              | 64QAM      | 1       | 0         | 22.79                       | 22.70                          | 22.67                        |                           |
| 15              | 64QAM      | 1       | 37        | 22.75                       | 22.72                          | 22.60                        | 23.7                      |
| 15              | 64QAM      | 1       | 74        | 22.79                       | 22.67                          | 22.61                        |                           |
| 15              | 64QAM      | 36      | 0         | 22.07                       | 22.02                          | 21.91                        |                           |
| 15              | 64QAM      | 36      | 20        | 22.18                       | 22.08                          | 22.08                        | 22.7                      |
| 15              | 64QAM      | 36      | 39        | 22.10                       | 22.05                          | 21.98                        |                           |
| 15              | 64QAM      | 75      | 0         | 22.16                       | 22.04                          | 22.03                        |                           |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                           |
| 10              | QPSK       | 1       | 0         | 24.46                       | 24.33                          | 24.25                        | 25.1                      |
| 10              | QPSK       | 1       | 25        | 24.42                       | 24.40                          | 24.35                        |                           |
| 10              | QPSK       | 1       | 49        | 24.39                       | 24.39                          | 24.35                        |                           |
| 10              | QPSK       | 25      | 0         | 24.00                       | 24.03                          | 23.92                        | 24.7                      |
| 10              | QPSK       | 25      | 12        | 24.15                       | 23.95                          | 24.03                        |                           |
| 10              | QPSK       | 25      | 25        | 24.05                       | 24.09                          | 24.00                        |                           |
| 10              | QPSK       | 50      | 0         | 24.14                       | 23.96                          | 23.93                        | 24.7                      |
| 10              | 16QAM      | 1       | 0         | 24.09                       | 23.99                          | 23.90                        |                           |
| 10              | 16QAM      | 1       | 25        | 24.03                       | 24.02                          | 23.88                        |                           |
| 10              | 16QAM      | 1       | 49        | 24.06                       | 23.91                          | 23.87                        | 23.7                      |
| 10              | 16QAM      | 25      | 0         | 23.07                       | 23.09                          | 22.93                        |                           |
| 10              | 16QAM      | 25      | 12        | 23.14                       | 23.06                          | 23.02                        |                           |
| 10              | 16QAM      | 25      | 25        | 23.13                       | 23.09                          | 22.94                        | 23.7                      |
| 10              | 16QAM      | 50      | 0         | 23.13                       | 23.02                          | 23.05                        |                           |
| 10              | 64QAM      | 1       | 0         | 22.76                       | 22.75                          | 22.65                        |                           |
| 10              | 64QAM      | 1       | 25        | 22.73                       | 22.74                          | 22.66                        | 23.7                      |
| 10              | 64QAM      | 1       | 49        | 22.79                       | 22.70                          | 22.57                        |                           |
| 10              | 64QAM      | 25      | 0         | 22.06                       | 22.02                          | 21.94                        |                           |
| 10              | 64QAM      | 25      | 12        | 22.19                       | 22.06                          | 22.06                        | 22.7                      |
| 10              | 64QAM      | 25      | 25        | 22.09                       | 22.04                          | 22.04                        |                           |
| 10              | 64QAM      | 50      | 0         | 22.18                       | 22.02                          | 22.01                        |                           |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                           |
| 5               | QPSK       | 1       | 0         | 24.41                       | 24.40                          | 24.28                        | 25.1                      |
| 5               | QPSK       | 1       | 12        | 24.44                       | 24.45                          | 24.32                        |                           |
| 5               | QPSK       | 1       | 24        | 24.38                       | 24.38                          | 24.26                        |                           |
| 5               | QPSK       | 12      | 0         | 24.06                       | 24.03                          | 23.94                        | 24.7                      |
| 5               | QPSK       | 12      | 7         | 24.11                       | 23.95                          | 24.03                        |                           |
| 5               | QPSK       | 12      | 13        | 24.08                       | 24.08                          | 23.99                        |                           |
| 5               | QPSK       | 25      | 0         | 24.12                       | 24.03                          | 24.02                        | 24.7                      |
| 5               | 16QAM      | 1       | 0         | 24.06                       | 23.98                          | 23.91                        |                           |
| 5               | 16QAM      | 1       | 12        | 24.04                       | 23.97                          | 23.91                        |                           |
| 5               | 16QAM      | 1       | 24        | 24.05                       | 23.97                          | 23.89                        | 23.7                      |
| 5               | 16QAM      | 12      | 0         | 23.05                       | 23.08                          | 22.96                        |                           |
| 5               | 16QAM      | 12      | 7         | 23.17                       | 23.05                          | 23.06                        |                           |
| 5               | 16QAM      | 12      | 13        | 23.11                       | 23.11                          | 22.98                        | 23.7                      |
| 5               | 16QAM      | 25      | 0         | 23.12                       | 23.05                          | 22.98                        |                           |
| 5               | 64QAM      | 1       | 0         | 22.79                       | 22.65                          | 22.61                        |                           |
| 5               | 64QAM      | 1       | 12        | 22.73                       | 22.71                          | 22.67                        | 22.7                      |
| 5               | 64QAM      | 1       | 24        | 22.72                       | 22.74                          | 22.56                        |                           |
| 5               | 64QAM      | 12      | 0         | 22.02                       | 22.10                          | 21.96                        |                           |
| 5               | 64QAM      | 12      | 7         | 22.12                       | 22.04                          | 22.02                        | 22.7                      |
| 5               | 64QAM      | 12      | 13        | 22.10                       | 22.10                          | 22.06                        |                           |
| 5               | 64QAM      | 25      | 0         | 22.13                       | 21.98                          | 21.99                        |                           |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ann 2           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 24.23               | 24.38                      | 24.45                  | 24.14                       | 23.88                | 25.1                |  |
| 20              | QPSK       | 1       | 49        | 24.21               | 24.35                      | 24.33                  | 24.40                       | 24.10                |                     |  |
| 20              | QPSK       | 1       | 99        | 24.22               | 24.37                      | 24.43                  | 24.00                       | 24.09                |                     |  |
| 20              | QPSK       | 50      | 0         | 23.79               | 23.94                      | 23.94                  | 24.05                       | 23.90                | 24.7                |  |
| 20              | QPSK       | 50      | 24        | 23.90               | 24.07                      | 24.16                  | 24.15                       | 24.02                |                     |  |
| 20              | QPSK       | 50      | 50        | 23.88               | 24.04                      | 24.01                  | 24.07                       | 24.01                |                     |  |
| 20              | QPSK       | 100     | 0         | 23.89               | 24.05                      | 24.01                  | 24.10                       | 23.97                | 24.7                |  |
| 20              | 16QAM      | 1       | 0         | 23.80               | 23.95                      | 24.05                  | 23.94                       | 23.87                |                     |  |
| 20              | 16QAM      | 1       | 49        | 23.80               | 23.96                      | 23.92                  | 24.23                       | 24.04                |                     |  |
| 20              | 16QAM      | 1       | 99        | 23.84               | 24.03                      | 24.00                  | 23.79                       | 23.87                | 23.7                |  |
| 20              | 16QAM      | 50      | 0         | 22.82               | 22.96                      | 22.97                  | 23.09                       | 22.93                |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.91               | 23.09                      | 23.05                  | 23.22                       | 23.06                |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.90               | 23.07                      | 23.04                  | 23.08                       | 23.02                | 23.7                |  |
| 20              | 16QAM      | 100     | 0         | 22.90               | 23.06                      | 23.02                  | 23.11                       | 22.97                |                     |  |
| 20              | 64QAM      | 1       | 0         | 22.51               | 22.60                      | 22.65                  | 22.60                       | 22.35                |                     |  |
| 20              | 64QAM      | 1       | 49        | 22.51               | 22.71                      | 22.68                  | 22.99                       | 22.79                | 23.7                |  |
| 20              | 64QAM      | 1       | 99        | 22.56               | 22.76                      | 22.68                  | 22.53                       | 22.55                |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.82               | 21.98                      | 21.98                  | 22.09                       | 21.93                |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.93               | 22.07                      | 22.07                  | 22.21                       | 22.06                | 22.7                |  |
| 20              | 64QAM      | 50      | 50        | 21.92               | 22.07                      | 22.05                  | 22.08                       | 22.03                |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.91               | 22.08                      | 22.04                  | 22.14                       | 21.96                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 24.16               | 24.23                      | 24.44                  | 24.13                       | 23.82                | 25.1                |  |
| 15              | QPSK       | 1       | 37        | 24.11               | 24.31                      | 24.25                  | 24.32                       | 24.22                |                     |  |
| 15              | QPSK       | 1       | 74        | 24.21               | 24.34                      | 24.40                  | 23.97                       | 24.02                |                     |  |
| 15              | QPSK       | 36      | 0         | 23.75               | 23.94                      | 23.86                  | 24.04                       | 23.85                | 24.7                |  |
| 15              | QPSK       | 36      | 20        | 23.89               | 23.99                      | 23.94                  | 24.16                       | 23.92                |                     |  |
| 15              | QPSK       | 36      | 39        | 23.80               | 24.03                      | 24.00                  | 23.98                       | 23.98                |                     |  |
| 15              | QPSK       | 75      | 0         | 23.89               | 23.99                      | 24.01                  | 24.08                       | 23.95                | 24.7                |  |
| 15              | 16QAM      | 1       | 0         | 23.70               | 23.88                      | 24.03                  | 23.89                       | 23.58                |                     |  |
| 15              | 16QAM      | 1       | 37        | 23.75               | 23.89                      | 23.83                  | 24.14                       | 23.98                |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.79               | 23.98                      | 23.97                  | 23.78                       | 23.81                | 23.7                |  |
| 15              | 16QAM      | 36      | 0         | 22.79               | 22.88                      | 22.89                  | 23.03                       | 22.84                |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.83               | 23.00                      | 23.01                  | 23.15                       | 22.98                |                     |  |
| 15              | 16QAM      | 36      | 39        | 22.90               | 23.06                      | 23.04                  | 23.00                       | 22.95                | 23.7                |  |
| 15              | 16QAM      | 75      | 0         | 22.89               | 23.05                      | 22.92                  | 23.04                       | 22.95                |                     |  |
| 15              | 64QAM      | 1       | 0         | 22.44               | 22.53                      | 22.58                  | 22.54                       | 22.29                |                     |  |
| 15              | 64QAM      | 1       | 37        | 22.41               | 22.68                      | 22.59                  | 22.94                       | 22.72                | 23.7                |  |
| 15              | 64QAM      | 1       | 74        | 22.48               | 22.71                      | 22.59                  | 22.43                       | 22.51                |                     |  |
| 15              | 64QAM      | 36      | 0         | 21.77               | 21.98                      | 21.95                  | 22.07                       | 21.88                |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.88               | 22.01                      | 22.05                  | 22.15                       | 21.96                | 22.7                |  |
| 15              | 64QAM      | 36      | 39        | 21.87               | 22.01                      | 21.95                  | 22.06                       | 22.03                |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.86               | 22.02                      | 21.96                  | 22.10                       | 21.95                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 24.20               | 24.32                      | 24.38                  | 24.11                       | 23.83                | 25.1                |  |
| 10              | QPSK       | 1       | 25        | 24.15               | 24.28                      | 24.26                  | 24.38                       | 24.22                |                     |  |
| 10              | QPSK       | 1       | 49        | 24.13               | 24.30                      | 24.38                  | 23.91                       | 24.05                |                     |  |
| 10              | QPSK       | 25      | 0         | 23.69               | 23.91                      | 23.90                  | 23.98                       | 23.84                | 24.7                |  |
| 10              | QPSK       | 25      | 12        | 23.81               | 24.01                      | 23.97                  | 24.19                       | 23.93                |                     |  |
| 10              | QPSK       | 25      | 25        | 23.81               | 24.03                      | 23.98                  | 23.97                       | 23.94                |                     |  |
| 10              | QPSK       | 50      | 0         | 23.83               | 23.96                      | 23.96                  | 24.05                       | 23.96                | 24.7                |  |
| 10              | 16QAM      | 1       | 0         | 23.80               | 23.88                      | 23.97                  | 23.86                       | 23.65                |                     |  |
| 10              | 16QAM      | 1       | 25        | 23.74               | 23.95                      | 23.87                  | 24.17                       | 24.02                |                     |  |
| 10              | 16QAM      | 1       | 49        | 23.78               | 23.95                      | 23.94                  | 23.71                       | 23.87                | 23.7                |  |
| 10              | 16QAM      | 25      | 0         | 22.79               | 22.94                      | 22.94                  | 23.09                       | 22.86                |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.90               | 23.07                      | 22.95                  | 23.14                       | 22.96                |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.90               | 23.03                      | 23.00                  | 23.00                       | 23.02                | 23.7                |  |
| 10              | 16QAM      | 50      | 0         | 22.81               | 23.02                      | 22.97                  | 23.05                       | 22.94                |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.43               | 22.59                      | 22.64                  | 22.52                       | 22.35                |                     |  |
| 10              | 64QAM      | 1       | 25        | 22.43               | 22.65                      | 22.68                  | 22.96                       | 22.73                | 23.7                |  |
| 10              | 64QAM      | 1       | 49        | 22.46               | 22.70                      | 22.66                  | 22.52                       | 22.50                |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.73               | 21.88                      | 21.96                  | 22.07                       | 21.88                |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.85               | 22.03                      | 22.01                  | 22.15                       | 21.98                | 22.7                |  |
| 10              | 64QAM      | 25      | 25        | 21.82               | 21.97                      | 22.01                  | 21.98                       | 21.99                |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.87               | 21.99                      | 21.99                  | 22.14                       | 21.90                |                     |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.3                      | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 24.16               | 24.23                      | 24.40                  | 24.14                       | 23.78                | 25.1                |  |
| 5               | QPSK       | 1       | 12        | 24.17               | 24.33                      | 24.30                  | 24.30                       | 24.22                |                     |  |
| 5               | QPSK       | 1       | 24        | 24.13               | 24.31                      | 24.43                  | 23.91                       | 24.05                |                     |  |
| 5               | QPSK       | 12      | 0         | 23.72               | 23.88                      | 23.92                  | 23.99                       | 23.84                | 24.7                |  |
| 5               | QPSK       | 12      | 7         | 23.81               | 24.05                      | 24.00                  | 24.15                       | 24.02                |                     |  |
| 5               | QPSK       | 12      | 13        | 23.82               | 24.01                      | 23.94                  | 23.99                       | 23.99                |                     |  |
| 5               | QPSK       | 25      | 0         | 23.66               | 23.97                      | 23.99                  | 24.05                       | 23.92                | 24.7                |  |
| 5               | 16QAM      | 1       | 0         | 23.71               | 23.90                      | 23.98                  | 23.89                       | 23.61                |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.79               | 23.91                      | 23.86                  | 24.18                       | 24.03                |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.83               | 23.99                      | 23.90                  | 23.74                       | 23.79                | 23.7                |  |
| 5               | 16QAM      | 12      | 0         | 22.79               | 22.89                      | 22.93                  | 23.06                       | 22.86                |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.81               | 22.99                      | 23.01                  | 23.22                       | 23.04                |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.90               | 23.05                      | 23.03                  | 22.99                       | 22.94                | 23.7                |  |
| 5               | 16QAM      | 25      | 0         | 22.81               | 22.96                      | 22.99                  | 23.07                       | 22.95                |                     |  |
| 5               | 64QAM      | 1       | 0         | 22.51               | 22.59                      | 22.65                  | 22.52                       | 22.35                |                     |  |
| 5               | 64QAM      | 1       | 12        | 22.46               | 22.68                      | 22.65                  | 22.93                       | 22.69                | 23.7                |  |
| 5               | 64QAM      | 1       | 24        | 22.54               | 22.71                      | 22.66                  | 22.50                       | 22.47                |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.81               | 21.90                      | 21.89                  | 22.07                       | 21.85                |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.83               | 21.99                      | 22.07                  | 22.16                       | 22.03                | 22.7                |  |
| 5               | 64QAM      | 12      | 13        | 21.92               | 22.05                      | 22.01                  | 22.04                       | 22.02                |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.90               | 22.03                      | 22.01                  | 22.05                       | 21.91                |                     |  |



| Band 41 HPUE    |            |         |           |                             |                                    |                                |                                     |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------------|--------------------------------|-------------------------------------|------------------------------|---------------------------|
| Ant.2           |            |         |           |                             |                                    |                                |                                     |                              |                           |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low-Middle<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High-Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 39750                       | 40185                              | 40620                          | 41055                               | 41490                        |                           |
| Frequency (MHz) |            |         |           | 2506                        | 2549.5                             | 2593                           | 2636.5                              | 2680                         |                           |
| 20              | QPSK       | 1       | 0         | 25.76                       | 25.92                              | 26.00                          | 25.74                               | 25.50                        | 26.9                      |
| 20              | QPSK       | 1       | 49        | 25.76                       | 25.92                              | 25.89                          | 25.59                               | 25.81                        |                           |
| 20              | QPSK       | 1       | 99        | 25.83                       | 26.00                              | 26.01                          | 25.58                               | 25.70                        |                           |
| 20              | QPSK       | 50      | 0         | 25.56                       | 25.73                              | 25.73                          | 25.96                               | 25.82                        |                           |
| 20              | QPSK       | 50      | 24        | 25.67                       | 25.84                              | 25.98                          | 25.94                               | 25.95                        | 26.4                      |
| 20              | QPSK       | 50      | 50        | 25.66                       | 25.83                              | 25.81                          | 25.96                               | 25.88                        |                           |
| 20              | QPSK       | 100     | 0         | 25.68                       | 25.84                              | 25.81                          | 26.01                               | 25.85                        |                           |
| 20              | 16QAM      | 1       | 0         | 25.72                       | 25.96                              | 26.00                          | 25.93                               | 25.69                        |                           |
| 20              | 16QAM      | 1       | 49        | 25.74                       | 25.93                              | 25.91                          | 26.23                               | 26.92                        | 26.4                      |
| 20              | 16QAM      | 1       | 99        | 25.72                       | 25.99                              | 25.93                          | 25.81                               | 25.86                        |                           |
| 20              | 16QAM      | 50      | 0         | 24.61                       | 24.75                              | 24.78                          | 24.99                               | 24.83                        |                           |
| 20              | 16QAM      | 50      | 24        | 24.71                       | 24.86                              | 24.85                          | 25.14                               | 24.96                        |                           |
| 20              | 16QAM      | 50      | 50        | 24.67                       | 24.87                              | 24.83                          | 24.99                               | 24.94                        | 25.4                      |
| 20              | 16QAM      | 100     | 0         | 24.66                       | 24.86                              | 24.84                          | 25.03                               | 24.90                        |                           |
| 20              | 64QAM      | 1       | 0         | 24.58                       | 24.94                              | 24.66                          | 24.76                               | 24.54                        |                           |
| 20              | 64QAM      | 1       | 49        | 24.62                       | 24.74                              | 24.71                          | 25.09                               | 24.58                        |                           |
| 20              | 64QAM      | 1       | 99        | 24.62                       | 24.82                              | 24.79                          | 24.66                               | 23.81                        | 24.4                      |
| 20              | 64QAM      | 50      | 0         | 23.59                       | 23.77                              | 23.75                          | 23.99                               | 23.58                        |                           |
| 20              | 64QAM      | 50      | 24        | 23.69                       | 23.86                              | 23.84                          | 24.15                               | 23.40                        |                           |
| 20              | 64QAM      | 50      | 50        | 23.68                       | 23.87                              | 23.83                          | 24.01                               | 23.13                        |                           |
| 20              | 64QAM      | 100     | 0         | 23.70                       | 23.86                              | 23.83                          | 24.05                               | 23.28                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 39725                       | 40173                              | 40620                          | 41068                               | 41515                        |                           |
| Frequency (MHz) |            |         |           | 2503.5                      | 2546.3                             | 2593                           | 2637.8                              | 2682.5                       |                           |
| 15              | QPSK       | 1       | 0         | 25.71                       | 25.90                              | 26.00                          | 25.68                               | 25.51                        | 26.9                      |
| 15              | QPSK       | 1       | 37        | 25.67                       | 25.89                              | 25.82                          | 25.91                               | 25.81                        |                           |
| 15              | QPSK       | 1       | 74        | 25.82                       | 25.92                              | 25.92                          | 25.58                               | 25.69                        |                           |
| 15              | QPSK       | 36      | 0         | 25.53                       | 25.67                              | 25.70                          | 25.86                               | 25.78                        |                           |
| 15              | QPSK       | 36      | 20        | 25.67                       | 25.84                              | 25.95                          | 25.91                               | 25.90                        | 26.4                      |
| 15              | QPSK       | 36      | 39        | 25.62                       | 25.81                              | 25.71                          | 25.86                               | 25.79                        |                           |
| 15              | QPSK       | 75      | 0         | 25.60                       | 25.82                              | 25.78                          | 25.97                               | 25.84                        |                           |
| 15              | 16QAM      | 1       | 0         | 25.63                       | 25.85                              | 25.87                          | 25.92                               | 25.64                        |                           |
| 15              | 16QAM      | 1       | 37        | 25.74                       | 25.89                              | 25.85                          | 26.17                               | 26.00                        | 26.4                      |
| 15              | 16QAM      | 1       | 74        | 25.67                       | 25.96                              | 25.87                          | 25.77                               | 25.84                        |                           |
| 15              | 16QAM      | 36      | 0         | 24.54                       | 24.73                              | 24.75                          | 24.93                               | 24.75                        |                           |
| 15              | 16QAM      | 36      | 20        | 24.71                       | 24.77                              | 24.82                          | 25.13                               | 24.93                        |                           |
| 15              | 16QAM      | 36      | 39        | 24.65                       | 24.86                              | 24.77                          | 24.92                               | 24.87                        | 25.4                      |
| 15              | 16QAM      | 75      | 0         | 24.61                       | 24.83                              | 24.82                          | 25.00                               | 24.89                        |                           |
| 15              | 64QAM      | 1       | 0         | 24.50                       | 24.59                              | 24.56                          | 24.73                               | 24.46                        |                           |
| 15              | 64QAM      | 1       | 37        | 24.64                       | 24.66                              | 24.67                          | 25.09                               | 24.50                        |                           |
| 15              | 64QAM      | 1       | 74        | 24.54                       | 24.75                              | 24.76                          | 24.59                               | 23.73                        | 24.4                      |
| 15              | 64QAM      | 36      | 0         | 23.51                       | 23.70                              | 23.72                          | 23.91                               | 23.46                        |                           |
| 15              | 64QAM      | 36      | 20        | 23.85                       | 23.82                              | 23.79                          | 24.12                               | 23.40                        |                           |
| 15              | 64QAM      | 36      | 39        | 23.60                       | 23.80                              | 23.75                          | 23.95                               | 23.12                        |                           |
| 15              | 64QAM      | 75      | 0         | 23.70                       | 23.84                              | 23.74                          | 23.98                               | 23.22                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 39700                       | 40160                              | 40620                          | 41080                               | 41540                        |                           |
| Frequency (MHz) |            |         |           | 2501                        | 2547                               | 2593                           | 2639                                | 2685                         |                           |
| 10              | QPSK       | 1       | 0         | 25.75                       | 25.89                              | 25.94                          | 25.66                               | 25.52                        | 26.9                      |
| 10              | QPSK       | 1       | 25        | 25.72                       | 25.84                              | 25.79                          | 25.94                               | 25.76                        |                           |
| 10              | QPSK       | 1       | 49        | 25.77                       | 25.91                              | 26.01                          | 25.49                               | 25.70                        |                           |
| 10              | QPSK       | 25      | 0         | 25.46                       | 25.67                              | 25.72                          | 25.91                               | 25.74                        |                           |
| 10              | QPSK       | 25      | 12        | 25.59                       | 25.81                              | 25.89                          | 25.86                               | 25.85                        | 26.4                      |
| 10              | QPSK       | 25      | 25        | 25.61                       | 25.77                              | 25.76                          | 25.90                               | 25.79                        |                           |
| 10              | QPSK       | 50      | 0         | 25.60                       | 25.82                              | 25.71                          | 25.91                               | 25.76                        |                           |
| 10              | 16QAM      | 1       | 0         | 25.62                       | 25.80                              | 25.94                          | 25.85                               | 25.61                        |                           |
| 10              | 16QAM      | 1       | 25        | 25.73                       | 25.92                              | 25.91                          | 26.15                               | 25.97                        | 26.4                      |
| 10              | 16QAM      | 1       | 49        | 25.71                       | 25.93                              | 25.84                          | 25.75                               | 25.78                        |                           |
| 10              | 16QAM      | 25      | 0         | 24.51                       | 24.73                              | 24.72                          | 24.96                               | 24.82                        |                           |
| 10              | 16QAM      | 25      | 12        | 24.63                       | 24.84                              | 24.82                          | 25.04                               | 24.86                        |                           |
| 10              | 16QAM      | 25      | 25        | 24.64                       | 24.77                              | 24.79                          | 24.89                               | 24.84                        | 25.4                      |
| 10              | 16QAM      | 50      | 0         | 24.60                       | 24.86                              | 24.74                          | 24.96                               | 24.82                        |                           |
| 10              | 64QAM      | 1       | 0         | 24.65                       | 24.60                              | 24.56                          | 24.66                               | 24.49                        |                           |
| 10              | 64QAM      | 1       | 25        | 24.56                       | 24.74                              | 24.69                          | 25.08                               | 24.50                        |                           |
| 10              | 64QAM      | 1       | 49        | 24.55                       | 24.79                              | 24.71                          | 24.61                               | 23.76                        | 24.4                      |
| 10              | 64QAM      | 25      | 0         | 23.59                       | 23.73                              | 23.75                          | 23.97                               | 23.51                        |                           |
| 10              | 64QAM      | 25      | 12        | 23.59                       | 23.86                              | 23.84                          | 24.13                               | 23.39                        |                           |
| 10              | 64QAM      | 25      | 25        | 23.64                       | 23.79                              | 23.80                          | 23.94                               | 23.12                        |                           |
| 10              | 64QAM      | 50      | 0         | 23.68                       | 23.83                              | 23.82                          | 24.02                               | 23.21                        | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 39675                       | 40148                              | 40620                          | 41093                               | 41565                        |                           |
| Frequency (MHz) |            |         |           | 2498.5                      | 2545.8                             | 2593                           | 2640.30                             | 2687.5                       |                           |
| 5               | QPSK       | 1       | 0         | 25.69                       | 25.88                              | 25.92                          | 25.70                               | 25.53                        | 26.9                      |
| 5               | QPSK       | 1       | 12        | 25.68                       | 25.84                              | 25.82                          | 25.93                               | 25.80                        |                           |
| 5               | QPSK       | 1       | 24        | 25.83                       | 25.91                              | 26.01                          | 25.53                               | 25.60                        |                           |
| 5               | QPSK       | 12      | 0         | 25.54                       | 25.65                              | 25.64                          | 25.95                               | 25.72                        |                           |
| 5               | QPSK       | 12      | 7         | 25.60                       | 25.82                              | 25.97                          | 25.94                               | 25.88                        | 26.4                      |
| 5               | QPSK       | 12      | 13        | 25.59                       | 25.75                              | 25.75                          | 25.92                               | 25.87                        |                           |
| 5               | QPSK       | 25      | 0         | 25.60                       | 25.76                              | 25.73                          | 25.92                               | 25.82                        |                           |
| 5               | 16QAM      | 1       | 0         | 25.63                       | 25.81                              | 25.92                          | 25.84                               | 25.69                        |                           |
| 5               | 16QAM      | 1       | 12        | 25.64                       | 25.85                              | 25.83                          | 26.15                               | 25.97                        | 26.4                      |
| 5               | 16QAM      | 1       | 24        | 25.68                       | 25.95                              | 25.84                          | 25.71                               | 25.81                        |                           |
| 5               | 16QAM      | 12      | 0         | 24.57                       | 24.65                              | 24.72                          | 24.99                               | 24.74                        |                           |
| 5               | 16QAM      | 12      | 7         | 24.69                       | 24.77                              | 24.83                          | 25.12                               | 24.87                        |                           |
| 5               | 16QAM      | 12      | 13        | 24.58                       | 24.82                              | 24.81                          | 24.93                               | 24.87                        | 25.4                      |
| 5               | 16QAM      | 25      | 0         | 24.63                       | 24.78                              | 24.82                          | 24.97                               | 24.81                        |                           |
| 5               | 64QAM      | 1       | 0         | 24.52                       | 24.60                              | 24.62                          | 24.66                               | 24.47                        |                           |
| 5               | 64QAM      | 1       | 12        | 24.57                       | 24.67                              | 24.64                          | 25.01                               | 24.53                        |                           |
| 5               | 64QAM      | 1       | 24        | 24.59                       | 24.76                              | 24.74                          | 24.56                               | 23.77                        | 24.4                      |
| 5               | 64QAM      | 12      | 0         | 23.52                       | 23.74                              | 23.71                          | 23.90                               | 23.56                        |                           |
| 5               | 64QAM      | 12      | 7         | 23.62                       | 23.85                              | 23.81                          | 24.08                               | 23.40                        |                           |
| 5               | 64QAM      | 12      | 13        | 23.64                       | 23.83                              | 23.76                          | 23.95                               | 23.12                        |                           |
| 5               | 64QAM      | 25      | 0         | 23.60                       | 23.85                              | 23.80                          | 23.96                               | 23.16                        |                           |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|--|
| Ant 7           |            |         |           |                       |                              |                               |                        |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 22.80                 | 22.72                        | 22.60                         | 22.45                  | 23.8                |  |  |
| 20              | QPSK       | 1       | 49        | 22.59                 | 22.48                        | 22.31                         | 22.10                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 22.55                 | 22.41                        | 22.25                         | 22.04                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 22.80                 | 22.73                        | 22.58                         | 22.33                  |                     |  |  |
| 20              | QPSK       | 50      | 24        | 22.77                 | 22.67                        | 22.50                         | 22.25                  | 23.3                |  |  |
| 20              | QPSK       | 50      | 50        | 22.61                 | 22.48                        | 22.34                         | 22.09                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 22.76                 | 22.57                        | 22.51                         | 22.24                  |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 22.92                 | 22.81                        | 22.67                         | 22.43                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 22.68                 | 22.55                        | 22.37                         | 22.15                  | 23.3                |  |  |
| 20              | 16QAM      | 1       | 99        | 22.66                 | 22.50                        | 22.35                         | 22.10                  |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 22.13                 | 22.04                        | 21.89                         | 21.65                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.09                 | 21.89                        | 21.80                         | 21.59                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 21.93                 | 21.82                        | 21.66                         | 21.41                  | 22.3                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.08                 | 21.89                        | 21.80                         | 21.55                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 21.92                 | 21.85                        | 21.72                         | 21.46                  |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 21.76                 | 21.62                        | 21.46                         | 21.32                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 21.68                 | 21.52                        | 21.38                         | 21.31                  | 21.3                |  |  |
| 20              | 64QAM      | 50      | 0         | 21.15                 | 21.06                        | 20.90                         | 20.66                  |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 21.10                 | 20.91                        | 20.83                         | 20.57                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 20.95                 | 20.82                        | 20.66                         | 20.42                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.09                 | 20.88                        | 20.82                         | 20.56                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 22.72                 | 22.59                        | 22.50                         | 22.21                  | 23.8                |  |  |
| 15              | QPSK       | 1       | 37        | 22.57                 | 22.47                        | 22.29                         | 22.03                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 22.57                 | 22.46                        | 22.24                         | 22.01                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 22.80                 | 22.70                        | 22.52                         | 22.29                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 22.76                 | 22.66                        | 22.48                         | 22.20                  | 23.3                |  |  |
| 15              | QPSK       | 36      | 39        | 22.62                 | 22.51                        | 22.33                         | 22.15                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 22.66                 | 22.66                        | 22.47                         | 22.24                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 22.86                 | 22.76                        | 22.61                         | 22.32                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 22.61                 | 22.47                        | 22.30                         | 22.05                  | 23.3                |  |  |
| 15              | 16QAM      | 1       | 74        | 22.69                 | 22.59                        | 22.40                         | 22.16                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 22.05                 | 21.95                        | 21.80                         | 21.54                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 21.99                 | 21.90                        | 21.72                         | 21.47                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 21.87                 | 21.77                        | 21.59                         | 21.44                  | 22.3                |  |  |
| 15              | 16QAM      | 75      | 0         | 21.97                 | 21.88                        | 21.79                         | 21.53                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 21.86                 | 21.81                        | 21.63                         | 21.36                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 21.74                 | 21.64                        | 21.42                         | 21.19                  |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 21.71                 | 21.59                        | 21.38                         | 21.15                  | 21.3                |  |  |
| 15              | 64QAM      | 36      | 0         | 21.12                 | 21.02                        | 20.85                         | 20.59                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 21.05                 | 20.95                        | 20.77                         | 20.51                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 20.93                 | 20.82                        | 20.63                         | 20.47                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 20.99                 | 20.94                        | 20.77                         | 20.52                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 22.63                 | 22.55                        | 22.49                         | 22.16                  | 23.8                |  |  |
| 10              | QPSK       | 1       | 25        | 22.49                 | 22.44                        | 22.20                         | 21.94                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 22.57                 | 22.36                        | 22.23                         | 21.91                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 22.76                 | 22.69                        | 22.46                         | 22.29                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 22.72                 | 22.64                        | 22.41                         | 22.16                  | 23.3                |  |  |
| 10              | QPSK       | 25      | 25        | 22.58                 | 22.48                        | 22.28                         | 22.06                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 22.56                 | 22.61                        | 22.43                         | 22.22                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 22.76                 | 22.68                        | 22.60                         | 22.27                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 22.60                 | 22.38                        | 22.22                         | 21.98                  | 23.3                |  |  |
| 10              | 16QAM      | 1       | 49        | 22.61                 | 22.55                        | 22.34                         | 22.09                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.00                 | 21.90                        | 21.71                         | 21.48                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 21.91                 | 21.81                        | 21.70                         | 21.42                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 21.79                 | 21.75                        | 21.55                         | 21.43                  | 22.3                |  |  |
| 10              | 16QAM      | 50      | 0         | 21.87                 | 21.91                        | 21.71                         | 21.47                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.85                 | 21.80                        | 21.55                         | 21.31                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.73                 | 21.59                        | 21.38                         | 21.10                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 21.66                 | 21.51                        | 21.30                         | 21.12                  | 21.3                |  |  |
| 10              | 64QAM      | 25      | 0         | 21.07                 | 20.96                        | 20.75                         | 20.52                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.95                 | 20.87                        | 20.74                         | 20.44                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 20.84                 | 20.74                        | 20.60                         | 20.41                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 20.93                 | 20.85                        | 20.68                         | 20.43                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 22.66                 | 22.54                        | 22.50                         | 22.55                  | 23.8                |  |  |
| 5               | QPSK       | 1       | 12        | 22.63                 | 22.50                        | 22.44                         | 22.53                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 22.57                 | 22.51                        | 22.36                         | 22.48                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 22.78                 | 22.62                        | 22.60                         | 22.69                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 22.77                 | 22.65                        | 22.56                         | 22.67                  | 23.3                |  |  |
| 5               | QPSK       | 12      | 13        | 22.75                 | 22.63                        | 22.53                         | 22.63                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 22.72                 | 22.64                        | 22.51                         | 22.62                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 22.77                 | 22.70                        | 22.61                         | 22.73                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 22.84                 | 22.71                        | 22.67                         | 22.78                  | 23.3                |  |  |
| 5               | 16QAM      | 1       | 24        | 22.76                 | 22.66                        | 22.53                         | 22.61                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.04                 | 21.91                        | 21.89                         | 21.96                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.08                 | 21.93                        | 21.81                         | 21.95                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.04                 | 21.92                        | 21.75                         | 21.90                  | 22.3                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.06                 | 21.97                        | 21.84                         | 21.95                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.87                 | 21.75                        | 21.67                         | 21.79                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.82                 | 21.72                        | 21.67                         | 21.76                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.85                 | 21.74                        | 21.58                         | 21.71                  | 21.3                |  |  |
| 5               | 64QAM      | 12      | 0         | 21.08                 | 20.97                        | 20.94                         | 21.00                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.11                 | 21.00                        | 20.88                         | 21.01                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.10                 | 20.99                        | 20.84                         | 20.92                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.12                 | 21.01                        | 20.89                         | 20.97                  |                     |  |  |



| Band 38         |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| Ann 0           |            |         |           |                     |                        |                      |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 37850               | 38000                  | 38150                |                     |
| Frequency (MHz) |            |         |           | 2580                | 2595                   | 2610                 |                     |
| 20              | QPSK       | 1       | 0         | 21.20               | 21.19                  | 21.08                | 22.4                |
| 20              | QPSK       | 1       | 49        | 21.22               | 21.22                  | 21.12                |                     |
| 20              | QPSK       | 1       | 99        | 21.21               | 21.20                  | 21.07                |                     |
| 20              | QPSK       | 50      | 0         | 21.28               | 21.29                  | 21.22                |                     |
| 20              | QPSK       | 50      | 24        | 21.40               | 21.30                  | 21.25                |                     |
| 20              | QPSK       | 50      | 50        | 21.36               | 21.34                  | 21.23                | 22.4                |
| 20              | QPSK       | 100     | 0         | 21.37               | 21.30                  | 21.27                |                     |
| 20              | 16QAM      | 1       | 0         | 21.34               | 21.31                  | 21.23                |                     |
| 20              | 16QAM      | 1       | 49        | 21.33               | 21.34                  | 21.22                |                     |
| 20              | 16QAM      | 1       | 99        | 21.37               | 21.32                  | 21.19                |                     |
| 20              | 16QAM      | 50      | 0         | 21.33               | 21.34                  | 21.24                | 22.4                |
| 20              | 16QAM      | 50      | 24        | 21.45               | 21.34                  | 21.30                |                     |
| 20              | 16QAM      | 50      | 50        | 21.41               | 21.40                  | 21.28                |                     |
| 20              | 16QAM      | 100     | 0         | 21.42               | 21.32                  | 21.30                |                     |
| 20              | 64QAM      | 1       | 0         | 21.04               | 21.02                  | 20.91                |                     |
| 20              | 64QAM      | 1       | 49        | 21.05               | 21.06                  | 20.98                | 22.4                |
| 20              | 64QAM      | 1       | 99        | 21.07               | 21.09                  | 20.90                |                     |
| 20              | 64QAM      | 50      | 0         | 21.35               | 21.34                  | 21.25                |                     |
| 20              | 64QAM      | 50      | 24        | 21.41               | 21.35                  | 21.32                |                     |
| 20              | 64QAM      | 50      | 50        | 21.42               | 21.38                  | 21.28                |                     |
| 20              | 64QAM      | 100     | 0         | 21.40               | 21.34                  | 21.30                |                     |
| Channel         |            |         |           | 37825               | 38000                  | 38175                |                     |
| Frequency (MHz) |            |         |           | 2577.5              | 2595                   | 2612.5               | Tune-up limit (dBm) |
| 15              | QPSK       | 1       | 0         | 21.17               | 21.17                  | 21.06                | 22.4                |
| 15              | QPSK       | 1       | 37        | 21.17               | 21.15                  | 21.04                |                     |
| 15              | QPSK       | 1       | 74        | 21.17               | 21.19                  | 21.03                |                     |
| 15              | QPSK       | 36      | 0         | 21.38               | 21.29                  | 21.17                |                     |
| 15              | QPSK       | 36      | 20        | 21.34               | 21.27                  | 21.15                |                     |
| 15              | QPSK       | 36      | 39        | 21.36               | 21.34                  | 21.22                | 22.4                |
| 15              | QPSK       | 75      | 0         | 21.36               | 21.27                  | 21.15                |                     |
| 15              | 16QAM      | 1       | 0         | 21.34               | 21.33                  | 21.25                |                     |
| 15              | 16QAM      | 1       | 37        | 21.26               | 21.25                  | 21.18                |                     |
| 15              | 16QAM      | 1       | 74        | 21.37               | 21.36                  | 21.21                |                     |
| 15              | 16QAM      | 36      | 0         | 21.37               | 21.26                  | 21.13                | 22.4                |
| 15              | 16QAM      | 36      | 20        | 21.34               | 21.25                  | 21.12                |                     |
| 15              | 16QAM      | 36      | 39        | 21.36               | 21.29                  | 21.20                |                     |
| 15              | 16QAM      | 75      | 0         | 21.37               | 21.28                  | 21.21                |                     |
| 15              | 64QAM      | 1       | 0         | 20.97               | 20.98                  | 20.89                |                     |
| 15              | 64QAM      | 1       | 37        | 21.06               | 21.04                  | 20.93                | 22.4                |
| 15              | 64QAM      | 1       | 74        | 21.08               | 21.06                  | 20.92                |                     |
| 15              | 64QAM      | 36      | 0         | 21.42               | 21.32                  | 21.20                |                     |
| 15              | 64QAM      | 36      | 20        | 21.38               | 21.26                  | 21.14                |                     |
| 15              | 64QAM      | 36      | 39        | 21.38               | 21.35                  | 21.24                |                     |
| 15              | 64QAM      | 75      | 0         | 21.38               | 21.30                  | 21.20                |                     |
| Channel         |            |         |           | 37800               | 38000                  | 38200                |                     |
| Frequency (MHz) |            |         |           | 2575                | 2595                   | 2615                 | Tune-up limit (dBm) |
| 10              | QPSK       | 1       | 0         | 21.08               | 21.08                  | 21.00                | 22.4                |
| 10              | QPSK       | 1       | 25        | 21.12               | 21.13                  | 20.94                |                     |
| 10              | QPSK       | 1       | 49        | 21.17               | 21.10                  | 21.01                |                     |
| 10              | QPSK       | 25      | 0         | 21.31               | 21.28                  | 21.17                |                     |
| 10              | QPSK       | 25      | 12        | 21.28               | 21.21                  | 21.08                |                     |
| 10              | QPSK       | 25      | 25        | 21.35               | 21.31                  | 21.15                | 22.4                |
| 10              | QPSK       | 50      | 0         | 21.29               | 21.17                  | 21.13                |                     |
| 10              | 16QAM      | 1       | 0         | 21.29               | 21.28                  | 21.20                |                     |
| 10              | 16QAM      | 1       | 25        | 21.24               | 21.23                  | 21.10                |                     |
| 10              | 16QAM      | 1       | 49        | 21.35               | 21.34                  | 21.12                |                     |
| 10              | 16QAM      | 25      | 0         | 21.32               | 21.20                  | 21.13                | 22.4                |
| 10              | 16QAM      | 25      | 12        | 21.27               | 21.24                  | 21.07                |                     |
| 10              | 16QAM      | 25      | 25        | 21.27               | 21.29                  | 21.10                |                     |
| 10              | 16QAM      | 50      | 0         | 21.34               | 21.27                  | 21.15                |                     |
| 10              | 64QAM      | 1       | 0         | 20.97               | 20.92                  | 20.80                |                     |
| 10              | 64QAM      | 1       | 25        | 21.04               | 20.97                  | 20.83                | 22.4                |
| 10              | 64QAM      | 1       | 49        | 21.02               | 20.96                  | 20.86                |                     |
| 10              | 64QAM      | 25      | 0         | 21.37               | 21.24                  | 21.11                |                     |
| 10              | 64QAM      | 25      | 12        | 21.33               | 21.16                  | 21.09                |                     |
| 10              | 64QAM      | 25      | 25        | 21.37               | 21.26                  | 21.22                |                     |
| 10              | 64QAM      | 50      | 0         | 21.28               | 21.27                  | 21.15                |                     |
| Channel         |            |         |           | 37775               | 38000                  | 38225                |                     |
| Frequency (MHz) |            |         |           | 2572.5              | 2595                   | 2617.5               | Tune-up limit (dBm) |
| 5               | QPSK       | 1       | 0         | 21.11               | 21.17                  | 20.98                | 22.4                |
| 5               | QPSK       | 1       | 12        | 21.20               | 21.21                  | 21.05                |                     |
| 5               | QPSK       | 1       | 24        | 21.16               | 21.17                  | 21.07                |                     |
| 5               | QPSK       | 12      | 0         | 21.24               | 21.24                  | 21.22                |                     |
| 5               | QPSK       | 12      | 7         | 21.37               | 21.22                  | 21.17                |                     |
| 5               | QPSK       | 12      | 13        | 21.31               | 21.27                  | 21.23                | 22.4                |
| 5               | QPSK       | 25      | 0         | 21.27               | 21.27                  | 21.24                |                     |
| 5               | 16QAM      | 1       | 0         | 21.31               | 21.27                  | 21.13                |                     |
| 5               | 16QAM      | 1       | 12        | 21.24               | 21.24                  | 21.20                |                     |
| 5               | 16QAM      | 1       | 24        | 21.32               | 21.22                  | 21.11                |                     |
| 5               | 16QAM      | 12      | 0         | 21.32               | 21.32                  | 21.17                | 22.4                |
| 5               | 16QAM      | 12      | 7         | 21.24               | 21.32                  | 21.30                |                     |
| 5               | 16QAM      | 12      | 13        | 21.34               | 21.33                  | 21.26                |                     |
| 5               | 16QAM      | 25      | 0         | 21.32               | 21.23                  | 21.20                |                     |
| 5               | 64QAM      | 1       | 0         | 20.99               | 20.94                  | 20.88                |                     |
| 5               | 64QAM      | 1       | 12        | 20.96               | 21.06                  | 20.92                | 22.4                |
| 5               | 64QAM      | 1       | 24        | 21.02               | 21.07                  | 20.81                |                     |
| 5               | 64QAM      | 12      | 0         | 21.33               | 21.34                  | 21.25                |                     |
| 5               | 64QAM      | 12      | 7         | 21.38               | 21.34                  | 21.22                |                     |
| 5               | 64QAM      | 12      | 13        | 21.38               | 21.32                  | 21.19                |                     |
| 5               | 64QAM      | 25      | 0         | 21.40               | 21.25                  | 21.21                |                     |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ann 0           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 20.06               | 20.95                      | 21.07                  | 20.71                       | 20.50                | 22.4                |  |
| 20              | QPSK       | 1       | 49        | 20.97               | 20.98                      | 20.99                  | 20.96                       | 20.82                |                     |  |
| 20              | QPSK       | 1       | 99        | 20.93               | 20.97                      | 21.06                  | 20.52                       | 20.69                |                     |  |
| 20              | QPSK       | 50      | 0         | 21.05               | 21.08                      | 21.09                  | 20.94                       | 20.74                | 22.4                |  |
| 20              | QPSK       | 50      | 24        | 21.12               | 21.16                      | 21.15                  | 21.06                       | 20.88                |                     |  |
| 20              | QPSK       | 50      | 50        | 21.09               | 21.14                      | 21.15                  | 20.90                       | 20.87                |                     |  |
| 20              | QPSK       | 100     | 0         | 21.12               | 21.15                      | 21.14                  | 20.96                       | 20.80                | 22.4                |  |
| 20              | 16QAM      | 1       | 0         | 21.13               | 21.06                      | 21.21                  | 20.74                       | 20.49                |                     |  |
| 20              | 16QAM      | 1       | 49        | 21.05               | 21.07                      | 21.10                  | 21.00                       | 20.89                |                     |  |
| 20              | 16QAM      | 1       | 99        | 21.13               | 21.12                      | 21.23                  | 20.95                       | 20.79                | 22.4                |  |
| 20              | 16QAM      | 50      | 0         | 21.10               | 21.08                      | 21.11                  | 20.97                       | 20.76                |                     |  |
| 20              | 16QAM      | 50      | 24        | 21.16               | 21.18                      | 21.21                  | 21.08                       | 20.92                |                     |  |
| 20              | 16QAM      | 50      | 50        | 21.15               | 21.18                      | 21.17                  | 20.93                       | 20.90                | 22.4                |  |
| 20              | 16QAM      | 100     | 0         | 21.16               | 21.18                      | 21.16                  | 20.99                       | 20.83                |                     |  |
| 20              | 64QAM      | 1       | 0         | 20.82               | 20.73                      | 20.82                  | 20.50                       | 20.50                |                     |  |
| 20              | 64QAM      | 1       | 49        | 20.79               | 20.79                      | 20.84                  | 20.85                       | 20.65                | 22.4                |  |
| 20              | 64QAM      | 1       | 99        | 20.84               | 20.84                      | 20.91                  | 20.50                       | 20.54                |                     |  |
| 20              | 64QAM      | 50      | 0         | 20.80               | 20.76                      | 20.79                  | 20.89                       | 20.70                |                     |  |
| 20              | 64QAM      | 50      | 24        | 20.87               | 20.88                      | 20.90                  | 21.03                       | 20.83                | 22.4                |  |
| 20              | 64QAM      | 50      | 50        | 20.83               | 20.86                      | 20.88                  | 20.84                       | 20.79                |                     |  |
| 20              | 64QAM      | 100     | 0         | 20.84               | 20.84                      | 20.88                  | 20.92                       | 20.76                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 20.97               | 20.94                      | 21.00                  | 20.84                       | 20.57                | 22.4                |  |
| 15              | QPSK       | 1       | 37        | 20.94               | 20.94                      | 20.97                  | 20.99                       | 20.77                |                     |  |
| 15              | QPSK       | 1       | 74        | 20.90               | 21.05                      | 21.08                  | 20.73                       | 20.75                |                     |  |
| 15              | QPSK       | 36      | 0         | 21.12               | 21.04                      | 21.08                  | 20.94                       | 20.79                | 22.4                |  |
| 15              | QPSK       | 36      | 20        | 21.10               | 21.14                      | 21.13                  | 20.97                       | 20.92                |                     |  |
| 15              | QPSK       | 36      | 39        | 21.07               | 21.12                      | 21.14                  | 20.95                       | 20.88                |                     |  |
| 15              | QPSK       | 75      | 0         | 21.12               | 21.13                      | 21.15                  | 20.83                       | 20.83                | 22.4                |  |
| 15              | 16QAM      | 1       | 0         | 21.17               | 21.13                      | 21.18                  | 20.92                       | 20.87                |                     |  |
| 15              | 16QAM      | 1       | 37        | 21.01               | 21.02                      | 21.03                  | 20.96                       | 20.90                |                     |  |
| 15              | 16QAM      | 1       | 74        | 21.10               | 21.20                      | 21.20                  | 20.79                       | 20.89                | 22.4                |  |
| 15              | 16QAM      | 36      | 0         | 21.11               | 21.02                      | 21.08                  | 20.91                       | 20.74                |                     |  |
| 15              | 16QAM      | 36      | 20        | 21.11               | 21.11                      | 21.12                  | 20.94                       | 20.84                |                     |  |
| 15              | 16QAM      | 36      | 39        | 21.07               | 21.11                      | 21.11                  | 20.93                       | 20.86                | 22.4                |  |
| 15              | 16QAM      | 75      | 0         | 21.16               | 21.17                      | 21.19                  | 20.94                       | 20.88                |                     |  |
| 15              | 64QAM      | 1       | 0         | 20.81               | 20.73                      | 20.76                  | 20.81                       | 20.50                |                     |  |
| 15              | 64QAM      | 1       | 37        | 20.80               | 20.81                      | 20.83                  | 20.79                       | 20.61                | 22.4                |  |
| 15              | 64QAM      | 1       | 74        | 20.82               | 20.91                      | 20.95                  | 20.51                       | 20.83                |                     |  |
| 15              | 64QAM      | 36      | 0         | 20.80               | 20.77                      | 20.77                  | 20.87                       | 20.71                |                     |  |
| 15              | 64QAM      | 36      | 20        | 20.81               | 20.84                      | 20.85                  | 20.91                       | 20.82                | 22.4                |  |
| 15              | 64QAM      | 36      | 39        | 20.78               | 20.84                      | 20.84                  | 20.86                       | 20.82                |                     |  |
| 15              | 64QAM      | 75      | 0         | 20.84               | 20.84                      | 20.87                  | 20.85                       | 20.78                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 20.88               | 20.89                      | 20.96                  | 20.77                       | 20.55                | 22.4                |  |
| 10              | QPSK       | 1       | 25        | 20.90               | 20.84                      | 20.89                  | 20.93                       | 20.75                |                     |  |
| 10              | QPSK       | 1       | 49        | 20.85               | 20.97                      | 21.00                  | 20.65                       | 20.67                |                     |  |
| 10              | QPSK       | 25      | 0         | 21.02               | 20.96                      | 21.07                  | 20.91                       | 20.70                | 22.4                |  |
| 10              | QPSK       | 25      | 12        | 21.08               | 21.08                      | 21.05                  | 20.90                       | 20.84                |                     |  |
| 10              | QPSK       | 25      | 25        | 21.03               | 21.03                      | 21.09                  | 20.95                       | 20.90                |                     |  |
| 10              | QPSK       | 50      | 0         | 21.02               | 21.10                      | 21.15                  | 20.85                       | 20.75                | 22.4                |  |
| 10              | 16QAM      | 1       | 0         | 21.11               | 21.13                      | 21.14                  | 20.82                       | 20.57                |                     |  |
| 10              | 16QAM      | 1       | 25        | 21.00               | 20.96                      | 20.94                  | 20.93                       | 20.87                |                     |  |
| 10              | 16QAM      | 1       | 49        | 21.00               | 21.13                      | 21.18                  | 20.79                       | 20.85                | 22.4                |  |
| 10              | 16QAM      | 25      | 0         | 21.05               | 20.99                      | 21.07                  | 20.81                       | 20.72                |                     |  |
| 10              | 16QAM      | 25      | 12        | 21.02               | 21.08                      | 21.05                  | 20.91                       | 20.82                |                     |  |
| 10              | 16QAM      | 25      | 25        | 21.05               | 21.05                      | 21.10                  | 20.90                       | 20.77                | 22.4                |  |
| 10              | 16QAM      | 50      | 0         | 21.06               | 21.14                      | 21.13                  | 20.87                       | 20.77                |                     |  |
| 10              | 64QAM      | 1       | 0         | 20.78               | 20.73                      | 20.72                  | 20.59                       | 20.48                |                     |  |
| 10              | 64QAM      | 1       | 25        | 20.80               | 20.74                      | 20.80                  | 20.69                       | 20.56                | 22.4                |  |
| 10              | 64QAM      | 1       | 49        | 20.75               | 20.86                      | 20.85                  | 20.43                       | 20.55                |                     |  |
| 10              | 64QAM      | 25      | 0         | 20.72               | 20.76                      | 20.88                  | 20.78                       | 20.71                |                     |  |
| 10              | 64QAM      | 25      | 12        | 20.78               | 20.80                      | 20.81                  | 20.82                       | 20.77                | 22.4                |  |
| 10              | 64QAM      | 25      | 25        | 20.73               | 20.76                      | 20.76                  | 20.84                       | 20.79                |                     |  |
| 10              | 64QAM      | 50      | 0         | 20.74               | 20.76                      | 20.81                  | 20.83                       | 20.74                |                     |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.3                      | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 20.97               | 20.94                      | 21.05                  | 20.92                       | 20.42                | 22.4                |  |
| 5               | QPSK       | 1       | 12        | 20.86               | 20.96                      | 20.92                  | 20.94                       | 20.82                |                     |  |
| 5               | QPSK       | 1       | 24        | 20.83               | 20.94                      | 20.98                  | 20.43                       | 20.66                |                     |  |
| 5               | QPSK       | 12      | 0         | 21.05               | 21.02                      | 21.04                  | 20.84                       | 20.72                | 22.4                |  |
| 5               | QPSK       | 12      | 7         | 21.08               | 21.07                      | 21.09                  | 21.06                       | 20.81                |                     |  |
| 5               | QPSK       | 12      | 13        | 21.03               | 21.05                      | 21.07                  | 20.89                       | 20.87                |                     |  |
| 5               | QPSK       | 25      | 0         | 21.03               | 21.15                      | 21.13                  | 20.87                       | 20.79                | 22.4                |  |
| 5               | 16QAM      | 1       | 0         | 21.07               | 20.98                      | 21.17                  | 20.84                       | 20.45                |                     |  |
| 5               | 16QAM      | 1       | 12        | 20.99               | 21.01                      | 21.01                  | 20.97                       | 20.82                |                     |  |
| 5               | 16QAM      | 1       | 24        | 21.05               | 21.03                      | 21.15                  | 20.55                       | 20.70                | 22.4                |  |
| 5               | 16QAM      | 12      | 0         | 21.04               | 21.00                      | 21.02                  | 20.91                       | 20.71                |                     |  |
| 5               | 16QAM      | 12      | 7         | 21.06               | 21.18                      | 21.20                  | 21.02                       | 20.84                |                     |  |
| 5               | 16QAM      | 12      | 13        | 21.14               | 21.12                      | 21.12                  | 20.89                       | 20.81                | 22.4                |  |
| 5               | 16QAM      | 25      | 0         | 21.14               | 21.15                      | 21.15                  | 20.92                       | 20.81                |                     |  |
| 5               | 64QAM      | 1       | 0         | 20.77               | 20.67                      | 20.73                  | 20.45                       | 20.46                |                     |  |
| 5               | 64QAM      | 1       | 12        | 20.79               | 20.70                      | 20.80                  | 20.75                       | 20.61                | 22.4                |  |
| 5               | 64QAM      | 1       | 24        | 20.82               | 20.81                      | 20.82                  | 20.44                       | 20.50                |                     |  |
| 5               | 64QAM      | 12      | 0         | 20.73               | 20.71                      | 20.77                  | 20.79                       | 20.69                |                     |  |
| 5               | 64QAM      | 12      | 7         | 20.82               | 20.82                      | 20.83                  | 20.99                       | 20.80                | 22.4                |  |
| 5               | 64QAM      | 12      | 13        | 20.74               | 20.77                      | 20.86                  | 20.83                       | 20.74                |                     |  |
| 5               | 64QAM      | 25      | 0         | 20.79               | 20.76                      | 20.84                  | 20.82                       | 20.69                |                     |  |



| Band 41 HPUE    |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ann 0           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 22.56               | 22.49                      | 22.63                  | 22.33                       | 22.30                | 24.2                |  |
| 20              | QPSK       | 1       | 49        | 22.51               | 22.54                      | 22.54                  | 22.57                       | 22.39                |                     |  |
| 20              | QPSK       | 1       | 99        | 22.53               | 22.58                      | 22.64                  | 22.30                       | 22.31                |                     |  |
| 20              | QPSK       | 50      | 0         | 22.72               | 22.71                      | 22.77                  | 22.63                       | 22.46                | 24.2                |  |
| 20              | QPSK       | 50      | 24        | 22.82               | 22.82                      | 22.87                  | 22.78                       | 22.60                |                     |  |
| 20              | QPSK       | 50      | 50        | 22.76               | 22.82                      | 22.83                  | 22.61                       | 22.58                |                     |  |
| 20              | QPSK       | 100     | 0         | 22.80               | 22.81                      | 22.83                  | 22.66                       | 22.50                | 24.2                |  |
| 20              | 16QAM      | 1       | 0         | 22.92               | 22.87                      | 22.98                  | 22.70                       | 22.38                |                     |  |
| 20              | 16QAM      | 1       | 49        | 22.89               | 22.91                      | 22.96                  | 22.97                       | 22.77                |                     |  |
| 20              | 16QAM      | 1       | 99        | 22.89               | 22.91                      | 23.01                  | 22.47                       | 22.66                | 24.2                |  |
| 20              | 16QAM      | 50      | 0         | 22.78               | 22.72                      | 22.78                  | 22.68                       | 22.49                |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.82               | 22.86                      | 22.87                  | 22.82                       | 22.63                |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.81               | 22.84                      | 22.87                  | 22.64                       | 22.62                | 24.2                |  |
| 20              | 16QAM      | 100     | 0         | 22.82               | 22.85                      | 22.87                  | 22.72                       | 22.54                |                     |  |
| 20              | 64QAM      | 1       | 0         | 22.73               | 22.67                      | 22.74                  | 22.47                       | 22.30                |                     |  |
| 20              | 64QAM      | 1       | 49        | 22.72               | 22.76                      | 22.73                  | 22.83                       | 22.63                | 24.2                |  |
| 20              | 64QAM      | 1       | 99        | 22.77               | 22.77                      | 22.85                  | 22.30                       | 22.51                |                     |  |
| 20              | 64QAM      | 50      | 0         | 22.57               | 22.57                      | 22.61                  | 22.68                       | 22.52                |                     |  |
| 20              | 64QAM      | 50      | 24        | 22.65               | 22.70                      | 22.70                  | 22.81                       | 22.61                | 24.2                |  |
| 20              | 64QAM      | 50      | 50        | 22.80               | 22.66                      | 22.69                  | 22.64                       | 22.64                |                     |  |
| 20              | 64QAM      | 100     | 0         | 22.84               | 22.65                      | 22.69                  | 22.73                       | 22.55                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 22.64               | 22.62                      | 22.64                  | 22.49                       | 22.25                | 24.2                |  |
| 15              | QPSK       | 1       | 37        | 22.56               | 22.58                      | 22.67                  | 22.61                       | 22.43                |                     |  |
| 15              | QPSK       | 1       | 74        | 22.57               | 22.73                      | 22.75                  | 22.37                       | 22.43                |                     |  |
| 15              | QPSK       | 36      | 0         | 22.80               | 22.74                      | 22.78                  | 22.63                       | 22.49                | 24.2                |  |
| 15              | QPSK       | 36      | 20        | 22.83               | 22.78                      | 22.86                  | 22.68                       | 22.62                |                     |  |
| 15              | QPSK       | 36      | 39        | 22.76               | 22.81                      | 22.81                  | 22.68                       | 22.59                |                     |  |
| 15              | QPSK       | 75      | 0         | 22.82               | 22.82                      | 22.86                  | 22.63                       | 22.54                | 24.2                |  |
| 15              | 16QAM      | 1       | 0         | 22.86               | 22.86                      | 22.94                  | 22.84                       | 22.53                |                     |  |
| 15              | 16QAM      | 1       | 37        | 22.85               | 22.87                      | 22.86                  | 22.93                       | 22.72                |                     |  |
| 15              | 16QAM      | 1       | 74        | 22.85               | 23.00                      | 23.00                  | 22.68                       | 22.76                | 24.2                |  |
| 15              | 16QAM      | 36      | 0         | 22.78               | 22.73                      | 22.70                  | 22.65                       | 22.48                |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.77               | 22.77                      | 22.80                  | 22.68                       | 22.59                |                     |  |
| 15              | 16QAM      | 36      | 39        | 22.73               | 22.77                      | 22.80                  | 22.68                       | 22.61                | 24.2                |  |
| 15              | 16QAM      | 75      | 0         | 22.83               | 22.82                      | 22.86                  | 22.64                       | 22.59                |                     |  |
| 15              | 64QAM      | 1       | 0         | 22.70               | 22.72                      | 22.71                  | 22.64                       | 22.33                |                     |  |
| 15              | 64QAM      | 1       | 37        | 22.75               | 22.73                      | 22.76                  | 22.80                       | 22.59                | 24.2                |  |
| 15              | 64QAM      | 1       | 74        | 22.73               | 22.85                      | 22.89                  | 22.50                       | 22.59                |                     |  |
| 15              | 64QAM      | 36      | 0         | 22.81               | 22.58                      | 22.59                  | 22.71                       | 22.85                |                     |  |
| 15              | 64QAM      | 36      | 20        | 22.63               | 22.63                      | 22.64                  | 22.73                       | 22.65                | 24.2                |  |
| 15              | 64QAM      | 36      | 39        | 22.56               | 22.63                      | 22.65                  | 22.70                       | 22.62                |                     |  |
| 15              | 64QAM      | 75      | 0         | 22.84               | 22.64                      | 22.66                  | 22.66                       | 22.57                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 22.56               | 22.40                      | 22.54                  | 22.28                       | 22.26                | 24.2                |  |
| 10              | QPSK       | 1       | 25        | 22.47               | 22.51                      | 22.52                  | 22.48                       | 22.29                |                     |  |
| 10              | QPSK       | 1       | 49        | 22.53               | 22.49                      | 22.63                  | 22.29                       | 22.22                |                     |  |
| 10              | QPSK       | 25      | 0         | 22.69               | 22.71                      | 22.77                  | 22.63                       | 22.42                | 24.2                |  |
| 10              | QPSK       | 25      | 12        | 22.81               | 22.75                      | 22.87                  | 22.70                       | 22.57                |                     |  |
| 10              | QPSK       | 25      | 25        | 22.71               | 22.81                      | 22.76                  | 22.61                       | 22.53                |                     |  |
| 10              | QPSK       | 50      | 0         | 22.79               | 22.76                      | 22.83                  | 22.65                       | 22.48                | 24.2                |  |
| 10              | 16QAM      | 1       | 0         | 22.83               | 22.84                      | 22.98                  | 22.69                       | 22.32                |                     |  |
| 10              | 16QAM      | 1       | 25        | 22.86               | 22.85                      | 22.89                  | 22.95                       | 22.71                |                     |  |
| 10              | 16QAM      | 1       | 49        | 22.89               | 22.82                      | 22.96                  | 22.38                       | 22.59                | 24.2                |  |
| 10              | 16QAM      | 25      | 0         | 22.70               | 22.70                      | 22.78                  | 22.60                       | 22.40                |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.73               | 22.80                      | 22.82                  | 22.73                       | 22.60                |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.81               | 22.83                      | 22.80                  | 22.58                       | 22.57                | 24.2                |  |
| 10              | 16QAM      | 50      | 0         | 22.73               | 22.79                      | 22.85                  | 22.71                       | 22.53                |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.68               | 22.58                      | 22.70                  | 22.44                       | 22.25                |                     |  |
| 10              | 64QAM      | 1       | 25        | 22.62               | 22.74                      | 22.71                  | 22.74                       | 22.55                | 24.2                |  |
| 10              | 64QAM      | 1       | 49        | 22.71               | 22.77                      | 22.76                  | 22.28                       | 22.45                |                     |  |
| 10              | 64QAM      | 25      | 0         | 22.57               | 22.54                      | 22.60                  | 22.59                       | 22.46                |                     |  |
| 10              | 64QAM      | 25      | 12        | 22.62               | 22.63                      | 22.61                  | 22.79                       | 22.59                | 24.2                |  |
| 10              | 64QAM      | 25      | 25        | 22.55               | 22.62                      | 22.67                  | 22.58                       | 22.54                |                     |  |
| 10              | 64QAM      | 50      | 0         | 22.84               | 22.63                      | 22.67                  | 22.73                       | 22.50                |                     |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 22.56               | 22.44                      | 22.57                  | 22.33                       | 22.26                | 24.2                |  |
| 5               | QPSK       | 1       | 12        | 22.47               | 22.54                      | 22.54                  | 22.56                       | 22.30                |                     |  |
| 5               | QPSK       | 1       | 24        | 22.48               | 22.55                      | 22.63                  | 22.21                       | 22.25                |                     |  |
| 5               | QPSK       | 12      | 0         | 22.66               | 22.63                      | 22.71                  | 22.56                       | 22.44                | 24.2                |  |
| 5               | QPSK       | 12      | 7         | 22.82               | 22.77                      | 22.87                  | 22.72                       | 22.55                |                     |  |
| 5               | QPSK       | 12      | 13        | 22.72               | 22.81                      | 22.74                  | 22.59                       | 22.51                |                     |  |
| 5               | QPSK       | 25      | 0         | 22.72               | 22.73                      | 22.79                  | 22.66                       | 22.49                | 24.2                |  |
| 5               | 16QAM      | 1       | 0         | 22.86               | 22.85                      | 22.96                  | 22.69                       | 22.35                |                     |  |
| 5               | 16QAM      | 1       | 12        | 22.80               | 22.84                      | 22.89                  | 22.95                       | 22.70                |                     |  |
| 5               | 16QAM      | 1       | 24        | 22.84               | 22.86                      | 22.98                  | 22.39                       | 22.63                | 24.2                |  |
| 5               | 16QAM      | 12      | 0         | 22.75               | 22.71                      | 22.70                  | 22.59                       | 22.48                |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.79               | 22.84                      | 22.84                  | 22.80                       | 22.61                |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.79               | 22.79                      | 22.81                  | 22.56                       | 22.58                | 24.2                |  |
| 5               | 16QAM      | 25      | 0         | 22.72               | 22.81                      | 22.84                  | 22.64                       | 22.53                |                     |  |
| 5               | 64QAM      | 1       | 0         | 22.69               | 22.66                      | 22.73                  | 22.47                       | 22.20                |                     |  |
| 5               | 64QAM      | 1       | 12        | 22.68               | 22.73                      | 22.73                  | 22.61                       | 22.60                | 24.2                |  |
| 5               | 64QAM      | 1       | 24        | 22.77               | 22.76                      | 22.85                  | 22.20                       | 22.41                |                     |  |
| 5               | 64QAM      | 12      | 0         | 22.55               | 22.55                      | 22.51                  | 22.67                       | 22.45                |                     |  |
| 5               | 64QAM      | 12      | 7         | 22.69               | 22.70                      | 22.69                  | 22.80                       | 22.53                | 24.2                |  |
| 5               | 64QAM      | 12      | 13        | 22.63               | 22.62                      | 22.64                  | 22.62                       | 22.61                |                     |  |
| 5               | 64QAM      | 25      | 0         | 22.84               | 22.58                      | 22.68                  | 22.71                       | 22.48                |                     |  |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|--|
| Ant 2           |            |         |           |                       |                              |                               |                        |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56160                         | 56640                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 20.38                 | 20.29                        | 20.20                         | 20.20                  | 21.7                |  |  |
| 20              | QPSK       | 1       | 49        | 20.18                 | 20.07                        | 19.96                         | 19.96                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 20.14                 | 20.03                        | 19.90                         | 19.89                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 20.39                 | 20.31                        | 20.19                         | 20.17                  |                     |  |  |
| 20              | QPSK       | 50      | 24        | 20.33                 | 20.15                        | 20.11                         | 20.11                  | 21.2                |  |  |
| 20              | QPSK       | 50      | 50        | 20.21                 | 20.09                        | 19.97                         | 19.96                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 20.32                 | 20.18                        | 20.11                         | 20.09                  |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 20.51                 | 20.44                        | 20.31                         | 20.33                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 20.28                 | 20.16                        | 20.07                         | 20.06                  | 21.2                |  |  |
| 20              | 16QAM      | 1       | 99        | 20.29                 | 20.13                        | 20.03                         | 20.01                  |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 19.86                 | 19.72                        | 19.62                         | 19.61                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 19.81                 | 19.59                        | 19.54                         | 19.53                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 19.66                 | 19.51                        | 19.40                         | 19.39                  | 20.2                |  |  |
| 20              | 16QAM      | 100     | 0         | 19.80                 | 19.56                        | 19.51                         | 19.52                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 20.19                 | 20.18                        | 20.09                         | 20.06                  |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 20.09                 | 19.98                        | 19.87                         | 19.82                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 20.12                 | 19.96                        | 19.79                         | 19.80                  | 19.2                |  |  |
| 20              | 64QAM      | 50      | 0         | 19.79                 | 19.65                        | 19.56                         | 19.53                  |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 19.74                 | 19.52                        | 19.47                         | 19.48                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 19.62                 | 19.47                        | 19.33                         | 19.30                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 19.84                 | 19.59                        | 19.56                         | 19.57                  |                     |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 20.25                 | 20.19                        | 20.08                         | 19.85                  | 21.7                |  |  |
| 15              | QPSK       | 1       | 37        | 20.14                 | 20.04                        | 19.89                         | 19.71                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 20.11                 | 20.01                        | 19.88                         | 19.70                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 20.34                 | 20.28                        | 20.14                         | 19.91                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 20.29                 | 20.20                        | 20.06                         | 19.83                  | 21.2                |  |  |
| 15              | QPSK       | 36      | 39        | 20.18                 | 20.09                        | 19.95                         | 19.76                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 20.23                 | 20.23                        | 20.08                         | 19.86                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 20.42                 | 20.36                        | 20.22                         | 20.02                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 20.23                 | 20.11                        | 19.92                         | 19.76                  | 21.2                |  |  |
| 15              | 16QAM      | 1       | 74        | 20.29                 | 20.21                        | 20.06                         | 19.79                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 19.75                 | 19.64                        | 19.51                         | 19.27                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 19.72                 | 19.55                        | 19.43                         | 19.21                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 19.59                 | 19.46                        | 19.33                         | 19.20                  | 20.2                |  |  |
| 15              | 16QAM      | 75      | 0         | 19.69                 | 19.64                        | 19.50                         | 19.25                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 20.22                 | 20.15                        | 20.04                         | 19.78                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 20.02                 | 19.96                        | 19.80                         | 19.56                  | 20.2                |  |  |
| 15              | 64QAM      | 1       | 74        | 20.11                 | 19.97                        | 19.81                         | 19.59                  |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 19.80                 | 19.67                        | 19.53                         | 19.32                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 19.75                 | 19.61                        | 19.48                         | 19.24                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 19.63                 | 19.48                        | 19.36                         | 19.17                  | 19.2                |  |  |
| 15              | 64QAM      | 75      | 0         | 19.70                 | 19.62                        | 19.49                         | 19.25                  |                     |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3693                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 20.25                 | 20.15                        | 20.04                         | 19.83                  | 21.7                |  |  |
| 10              | QPSK       | 1       | 25        | 20.12                 | 19.97                        | 19.79                         | 19.72                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 20.01                 | 20.00                        | 19.87                         | 19.70                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 20.26                 | 20.19                        | 20.10                         | 19.81                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 20.22                 | 20.15                        | 20.03                         | 19.81                  | 21.2                |  |  |
| 10              | QPSK       | 25      | 25        | 20.16                 | 20.00                        | 19.90                         | 19.70                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 20.16                 | 20.20                        | 20.08                         | 19.83                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 20.40                 | 20.29                        | 20.20                         | 19.94                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 20.22                 | 20.09                        | 19.84                         | 19.76                  | 21.2                |  |  |
| 10              | 16QAM      | 1       | 49        | 20.24                 | 20.19                        | 20.00                         | 19.77                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 19.71                 | 19.59                        | 19.42                         | 19.25                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 19.68                 | 19.47                        | 19.42                         | 19.22                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 19.58                 | 19.39                        | 19.24                         | 19.21                  | 20.2                |  |  |
| 10              | 16QAM      | 50      | 0         | 19.69                 | 19.63                        | 19.50                         | 19.22                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 20.12                 | 20.09                        | 19.97                         | 19.70                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 19.93                 | 19.88                        | 19.77                         | 19.47                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 20.07                 | 19.97                        | 19.72                         | 19.57                  | 20.2                |  |  |
| 10              | 64QAM      | 25      | 0         | 19.73                 | 19.57                        | 19.43                         | 19.28                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 19.72                 | 19.59                        | 19.48                         | 19.17                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 19.54                 | 19.44                        | 19.33                         | 19.08                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 19.67                 | 19.56                        | 19.39                         | 19.22                  |                     |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3693.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 20.28                 | 20.15                        | 20.07                         | 20.21                  | 21.7                |  |  |
| 5               | QPSK       | 1       | 12        | 20.25                 | 20.11                        | 20.04                         | 20.16                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 20.23                 | 20.03                        | 19.98                         | 20.12                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 20.37                 | 20.23                        | 20.15                         | 20.30                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 20.40                 | 20.27                        | 20.11                         | 20.28                  | 21.2                |  |  |
| 5               | QPSK       | 12      | 13        | 20.32                 | 20.24                        | 20.06                         | 20.21                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 20.34                 | 20.27                        | 20.12                         | 20.23                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 20.36                 | 20.26                        | 20.26                         | 20.28                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 20.44                 | 20.32                        | 20.25                         | 20.33                  | 21.2                |  |  |
| 5               | 16QAM      | 1       | 24        | 20.38                 | 20.29                        | 20.17                         | 20.24                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 19.73                 | 19.63                        | 19.61                         | 19.66                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 19.77                 | 19.65                        | 19.56                         | 19.65                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 19.73                 | 19.64                        | 19.47                         | 19.57                  | 20.2                |  |  |
| 5               | 16QAM      | 25      | 0         | 19.78                 | 19.69                        | 19.57                         | 19.64                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 20.15                 | 20.06                        | 19.99                         | 20.10                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 20.16                 | 20.02                        | 20.01                         | 20.07                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 20.14                 | 20.01                        | 19.91                         | 19.97                  | 19.2                |  |  |
| 5               | 64QAM      | 12      | 0         | 19.73                 | 19.64                        | 19.56                         | 19.67                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 19.77                 | 19.65                        | 19.51                         | 19.62                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 19.71                 | 19.59                        | 19.51                         | 19.59                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 19.73                 | 19.64                        | 19.53                         | 19.59                  |                     |  |  |





| Band 38         |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ann 2           |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 37850                 | 38000                    | 38150                  |                     |
| Frequency (MHz) |            |         |           | 2580                  | 2595                     | 2610                   |                     |
| 20              | QPSK       | 1       | 0         | 24.95                 | 24.88                    | 24.81                  | 25.7                |
| 20              | QPSK       | 1       | 49        | 24.94                 | 24.82                    | 24.75                  |                     |
| 20              | QPSK       | 1       | 99        | 24.93                 | 24.78                    | 24.75                  |                     |
| 20              | QPSK       | 50      | 0         | 24.19                 | 24.05                    | 23.86                  |                     |
| 20              | QPSK       | 50      | 24        | 24.17                 | 24.04                    | 24.00                  |                     |
| 20              | QPSK       | 50      | 50        | 24.03                 | 24.05                    | 23.91                  | 24.7                |
| 20              | QPSK       | 100     | 0         | 24.11                 | 23.94                    | 23.93                  |                     |
| 20              | 16QAM      | 1       | 0         | 24.07                 | 24.04                    | 23.89                  |                     |
| 20              | 16QAM      | 1       | 49        | 24.07                 | 23.85                    | 23.82                  | 24.7                |
| 20              | 16QAM      | 1       | 99        | 23.95                 | 23.97                    | 23.90                  |                     |
| 20              | 16QAM      | 50      | 0         | 23.16                 | 23.06                    | 22.97                  |                     |
| 20              | 16QAM      | 50      | 24        | 23.17                 | 23.00                    | 22.93                  | 23.7                |
| 20              | 16QAM      | 50      | 50        | 23.08                 | 23.06                    | 22.99                  |                     |
| 20              | 16QAM      | 100     | 0         | 23.11                 | 23.01                    | 22.95                  |                     |
| 20              | 64QAM      | 1       | 0         | 22.81                 | 22.78                    | 22.67                  | 23.7                |
| 20              | 64QAM      | 1       | 49        | 22.71                 | 22.71                    | 22.77                  |                     |
| 20              | 64QAM      | 1       | 99        | 22.68                 | 22.82                    | 22.78                  |                     |
| 20              | 64QAM      | 50      | 0         | 22.15                 | 22.02                    | 21.92                  | 22.7                |
| 20              | 64QAM      | 50      | 24        | 22.14                 | 22.04                    | 22.04                  |                     |
| 20              | 64QAM      | 50      | 50        | 22.08                 | 22.09                    | 21.91                  |                     |
| 20              | 64QAM      | 100     | 0         | 22.08                 | 21.96                    | 22.05                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 37825                 | 38000                    | 38175                  |                     |
| Frequency (MHz) |            |         |           | 2577.5                | 2595                     | 2612.5                 |                     |
| 15              | QPSK       | 1       | 0         | 24.92                 | 24.90                    | 24.81                  | 25.7                |
| 15              | QPSK       | 1       | 37        | 24.91                 | 24.87                    | 24.80                  |                     |
| 15              | QPSK       | 1       | 74        | 24.90                 | 24.81                    | 24.78                  |                     |
| 15              | QPSK       | 36      | 0         | 24.18                 | 23.95                    | 23.89                  |                     |
| 15              | QPSK       | 36      | 20        | 24.14                 | 24.00                    | 23.91                  |                     |
| 15              | QPSK       | 36      | 39        | 24.07                 | 24.05                    | 23.90                  | 24.7                |
| 15              | QPSK       | 75      | 0         | 24.06                 | 24.00                    | 23.82                  |                     |
| 15              | 16QAM      | 1       | 0         | 24.07                 | 24.03                    | 23.92                  |                     |
| 15              | 16QAM      | 1       | 37        | 23.92                 | 23.82                    | 23.86                  | 24.7                |
| 15              | 16QAM      | 1       | 74        | 23.96                 | 23.92                    | 23.87                  |                     |
| 15              | 16QAM      | 36      | 0         | 23.07                 | 22.98                    | 22.86                  |                     |
| 15              | 16QAM      | 36      | 20        | 23.01                 | 22.94                    | 22.81                  | 23.7                |
| 15              | 16QAM      | 36      | 39        | 23.04                 | 22.97                    | 22.92                  |                     |
| 15              | 16QAM      | 75      | 0         | 23.13                 | 22.97                    | 22.88                  |                     |
| 15              | 64QAM      | 1       | 0         | 22.75                 | 22.74                    | 22.75                  | 23.7                |
| 15              | 64QAM      | 1       | 37        | 22.74                 | 22.82                    | 22.75                  |                     |
| 15              | 64QAM      | 1       | 74        | 22.70                 | 22.71                    | 22.72                  |                     |
| 15              | 64QAM      | 36      | 0         | 22.14                 | 22.02                    | 21.86                  | 22.7                |
| 15              | 64QAM      | 36      | 20        | 22.08                 | 21.98                    | 21.93                  |                     |
| 15              | 64QAM      | 36      | 39        | 22.16                 | 22.03                    | 21.92                  |                     |
| 15              | 64QAM      | 75      | 0         | 22.16                 | 21.95                    | 21.86                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 37800                 | 38000                    | 38200                  |                     |
| Frequency (MHz) |            |         |           | 2575                  | 2595                     | 2615                   |                     |
| 10              | QPSK       | 1       | 0         | 24.91                 | 24.78                    | 24.80                  | 25.7                |
| 10              | QPSK       | 1       | 25        | 24.81                 | 24.78                    | 24.76                  |                     |
| 10              | QPSK       | 1       | 49        | 24.85                 | 24.71                    | 24.65                  |                     |
| 10              | QPSK       | 25      | 0         | 24.13                 | 23.95                    | 23.83                  |                     |
| 10              | QPSK       | 25      | 12        | 24.04                 | 23.87                    | 23.71                  |                     |
| 10              | QPSK       | 25      | 25        | 24.06                 | 23.98                    | 23.79                  | 24.7                |
| 10              | QPSK       | 50      | 0         | 23.99                 | 23.96                    | 23.90                  |                     |
| 10              | 16QAM      | 1       | 0         | 24.02                 | 23.97                    | 23.87                  |                     |
| 10              | 16QAM      | 1       | 25        | 23.92                 | 23.83                    | 23.72                  | 24.7                |
| 10              | 16QAM      | 1       | 49        | 23.88                 | 23.95                    | 23.91                  |                     |
| 10              | 16QAM      | 25      | 0         | 23.08                 | 22.91                    | 22.84                  |                     |
| 10              | 16QAM      | 25      | 12        | 23.04                 | 22.90                    | 22.89                  | 23.7                |
| 10              | 16QAM      | 25      | 25        | 23.02                 | 22.93                    | 22.89                  |                     |
| 10              | 16QAM      | 50      | 0         | 23.11                 | 22.95                    | 22.77                  |                     |
| 10              | 64QAM      | 1       | 0         | 22.75                 | 22.69                    | 22.69                  | 23.7                |
| 10              | 64QAM      | 1       | 25        | 22.70                 | 22.77                    | 22.72                  |                     |
| 10              | 64QAM      | 1       | 49        | 22.77                 | 22.78                    | 22.73                  |                     |
| 10              | 64QAM      | 25      | 0         | 22.11                 | 21.96                    | 21.85                  | 22.7                |
| 10              | 64QAM      | 25      | 12        | 22.11                 | 21.94                    | 21.85                  |                     |
| 10              | 64QAM      | 25      | 25        | 22.11                 | 21.98                    | 21.80                  |                     |
| 10              | 64QAM      | 50      | 0         | 22.12                 | 21.92                    | 21.84                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 37775                 | 38000                    | 38225                  |                     |
| Frequency (MHz) |            |         |           | 2572.5                | 2595                     | 2617.5                 |                     |
| 5               | QPSK       | 1       | 0         | 24.90                 | 24.92                    | 24.77                  | 25.7                |
| 5               | QPSK       | 1       | 12        | 24.93                 | 24.92                    | 24.78                  |                     |
| 5               | QPSK       | 1       | 24        | 24.91                 | 24.92                    | 24.76                  |                     |
| 5               | QPSK       | 12      | 0         | 24.16                 | 23.96                    | 23.94                  |                     |
| 5               | QPSK       | 12      | 7         | 24.13                 | 24.04                    | 23.94                  |                     |
| 5               | QPSK       | 12      | 13        | 24.09                 | 24.02                    | 23.96                  | 24.7                |
| 5               | QPSK       | 25      | 0         | 24.17                 | 24.04                    | 23.92                  |                     |
| 5               | 16QAM      | 1       | 0         | 24.23                 | 24.02                    | 23.93                  |                     |
| 5               | 16QAM      | 1       | 12        | 24.22                 | 24.10                    | 23.95                  | 24.7                |
| 5               | 16QAM      | 1       | 24        | 24.19                 | 24.14                    | 24.05                  |                     |
| 5               | 16QAM      | 12      | 0         | 23.14                 | 22.96                    | 22.88                  |                     |
| 5               | 16QAM      | 12      | 7         | 23.13                 | 23.13                    | 22.93                  | 23.7                |
| 5               | 16QAM      | 12      | 13        | 23.12                 | 23.07                    | 22.90                  |                     |
| 5               | 16QAM      | 25      | 0         | 23.12                 | 22.99                    | 22.99                  |                     |
| 5               | 64QAM      | 1       | 0         | 22.92                 | 22.80                    | 22.74                  | 23.7                |
| 5               | 64QAM      | 1       | 12        | 22.93                 | 22.87                    | 22.72                  |                     |
| 5               | 64QAM      | 1       | 24        | 22.92                 | 22.85                    | 22.78                  |                     |
| 5               | 64QAM      | 12      | 0         | 22.17                 | 22.04                    | 22.00                  | 22.7                |
| 5               | 64QAM      | 12      | 7         | 22.21                 | 22.07                    | 22.02                  |                     |
| 5               | 64QAM      | 12      | 13        | 22.17                 | 22.10                    | 21.97                  |                     |
| 5               | 64QAM      | 25      | 0         | 22.24                 | 22.04                    | 22.00                  |                     |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ann 2           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 24.36               | 24.32                      | 24.31                  | 24.29                       | 24.12                | 25.7                |  |
| 20              | QPSK       | 1       | 49        | 24.33               | 24.31                      | 24.18                  | 24.57                       | 24.42                |                     |  |
| 20              | QPSK       | 1       | 99        | 24.33               | 24.30                      | 24.25                  | 24.12                       | 24.27                |                     |  |
| 20              | QPSK       | 50      | 0         | 23.53               | 23.47                      | 23.28                  | 23.52                       | 23.42                | 24.7                |  |
| 20              | QPSK       | 50      | 24        | 23.54               | 23.48                      | 23.35                  | 23.57                       | 23.55                |                     |  |
| 20              | QPSK       | 50      | 50        | 23.48               | 23.44                      | 23.34                  | 23.51                       | 23.50                |                     |  |
| 20              | QPSK       | 100     | 0         | 23.52               | 23.48                      | 23.36                  | 23.53                       | 23.44                | 24.7                |  |
| 20              | 16QAM      | 1       | 0         | 23.52               | 23.45                      | 23.45                  | 23.44                       | 23.23                |                     |  |
| 20              | 16QAM      | 1       | 49        | 23.45               | 23.43                      | 23.32                  | 23.65                       | 23.52                |                     |  |
| 20              | 16QAM      | 1       | 99        | 23.47               | 23.47                      | 23.35                  | 23.26                       | 23.35                | 23.7                |  |
| 20              | 16QAM      | 50      | 0         | 22.56               | 22.48                      | 22.33                  | 22.56                       | 22.45                |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.56               | 22.51                      | 22.41                  | 22.59                       | 22.54                |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.52               | 22.46                      | 22.36                  | 22.52                       | 22.53                | 23.7                |  |
| 20              | 16QAM      | 100     | 0         | 22.54               | 22.50                      | 22.39                  | 22.49                       | 22.47                |                     |  |
| 20              | 64QAM      | 1       | 0         | 22.26               | 22.14                      | 22.13                  | 22.10                       | 21.89                |                     |  |
| 20              | 64QAM      | 1       | 49        | 22.19               | 22.22                      | 22.04                  | 22.46                       | 22.27                | 23.7                |  |
| 20              | 64QAM      | 1       | 99        | 22.19               | 22.25                      | 22.08                  | 22.02                       | 22.03                |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.55               | 21.50                      | 21.35                  | 21.55                       | 21.44                |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.57               | 21.51                      | 21.40                  | 21.60                       | 21.56                | 22.7                |  |
| 20              | 64QAM      | 50      | 50        | 21.52               | 21.48                      | 21.38                  | 21.50                       | 21.53                |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.56               | 21.50                      | 21.41                  | 21.51                       | 21.47                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 24.36               | 24.32                      | 24.25                  | 24.42                       | 24.22                | 25.7                |  |
| 15              | QPSK       | 1       | 37        | 24.32               | 24.25                      | 24.18                  | 24.53                       | 24.39                |                     |  |
| 15              | QPSK       | 1       | 74        | 24.34               | 24.36                      | 24.27                  | 24.27                       | 24.35                |                     |  |
| 15              | QPSK       | 36      | 0         | 23.41               | 23.47                      | 23.31                  | 23.53                       | 23.47                | 24.7                |  |
| 15              | QPSK       | 36      | 20        | 23.51               | 23.45                      | 23.37                  | 23.64                       | 23.51                |                     |  |
| 15              | QPSK       | 36      | 39        | 23.46               | 23.44                      | 23.33                  | 23.53                       | 23.47                |                     |  |
| 15              | QPSK       | 75      | 0         | 23.50               | 23.46                      | 23.36                  | 23.58                       | 23.47                | 24.7                |  |
| 15              | 16QAM      | 1       | 0         | 23.53               | 23.48                      | 23.43                  | 23.56                       | 23.36                |                     |  |
| 15              | 16QAM      | 1       | 37        | 23.41               | 23.39                      | 23.25                  | 23.65                       | 23.52                |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.49               | 23.57                      | 23.45                  | 23.46                       | 23.44                | 23.7                |  |
| 15              | 16QAM      | 36      | 0         | 22.40               | 22.46                      | 22.27                  | 22.48                       | 22.40                |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.47               | 22.45                      | 22.33                  | 22.60                       | 22.48                |                     |  |
| 15              | 16QAM      | 36      | 39        | 22.45               | 22.42                      | 22.31                  | 22.53                       | 22.46                | 23.7                |  |
| 15              | 16QAM      | 75      | 0         | 22.52               | 22.48                      | 22.38                  | 22.59                       | 22.49                |                     |  |
| 15              | 64QAM      | 1       | 0         | 22.24               | 22.18                      | 22.07                  | 22.26                       | 22.05                |                     |  |
| 15              | 64QAM      | 1       | 37        | 22.22               | 22.20                      | 22.07                  | 22.42                       | 22.27                | 23.7                |  |
| 15              | 64QAM      | 1       | 74        | 22.17               | 22.34                      | 22.15                  | 22.21                       | 22.16                |                     |  |
| 15              | 64QAM      | 36      | 0         | 21.44               | 21.49                      | 21.34                  | 21.56                       | 21.47                |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.54               | 21.47                      | 21.38                  | 21.65                       | 21.57                | 22.7                |  |
| 15              | 64QAM      | 36      | 39        | 21.48               | 21.48                      | 21.36                  | 21.57                       | 21.51                |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.54               | 21.48                      | 21.39                  | 21.61                       | 21.51                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 24.25               | 24.32                      | 24.17                  | 24.41                       | 24.12                | 25.7                |  |
| 10              | QPSK       | 1       | 25        | 24.24               | 24.24                      | 24.09                  | 24.48                       | 24.33                |                     |  |
| 10              | QPSK       | 1       | 49        | 24.29               | 24.33                      | 24.20                  | 24.21                       | 24.31                |                     |  |
| 10              | QPSK       | 25      | 0         | 23.38               | 23.37                      | 23.21                  | 23.49                       | 23.39                | 24.7                |  |
| 10              | QPSK       | 25      | 12        | 23.42               | 23.35                      | 23.29                  | 23.57                       | 23.47                |                     |  |
| 10              | QPSK       | 25      | 25        | 23.39               | 23.43                      | 23.27                  | 23.48                       | 23.39                |                     |  |
| 10              | QPSK       | 50      | 0         | 23.48               | 23.43                      | 23.35                  | 23.56                       | 23.41                | 24.7                |  |
| 10              | 16QAM      | 1       | 0         | 23.45               | 23.42                      | 23.33                  | 23.56                       | 23.32                |                     |  |
| 10              | 16QAM      | 1       | 25        | 23.37               | 23.29                      | 23.23                  | 23.64                       | 23.48                |                     |  |
| 10              | 16QAM      | 1       | 49        | 23.47               | 23.47                      | 23.43                  | 23.40                       | 23.41                | 23.7                |  |
| 10              | 16QAM      | 25      | 0         | 22.35               | 22.49                      | 22.21                  | 22.47                       | 22.39                |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.45               | 22.37                      | 22.21                  | 22.52                       | 22.44                |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.39               | 22.40                      | 22.28                  | 22.48                       | 22.44                | 23.7                |  |
| 10              | 16QAM      | 50      | 0         | 22.46               | 22.44                      | 22.28                  | 22.57                       | 22.47                |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.18               | 22.09                      | 22.05                  | 22.19                       | 22.05                |                     |  |
| 10              | 64QAM      | 1       | 25        | 22.12               | 22.20                      | 22.03                  | 22.37                       | 22.24                | 23.7                |  |
| 10              | 64QAM      | 1       | 49        | 22.06               | 22.30                      | 22.07                  | 22.17                       | 22.12                |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.37               | 21.47                      | 21.24                  | 21.55                       | 21.40                |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.47               | 21.38                      | 21.37                  | 21.63                       | 21.47                | 22.7                |  |
| 10              | 64QAM      | 25      | 25        | 21.43               | 21.44                      | 21.26                  | 21.49                       | 21.46                |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.50               | 21.43                      | 21.35                  | 21.58                       | 21.51                |                     |  |
| Channel         |            |         |           | 39675               | 40143                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2493.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 24.48               | 24.36                      | 24.27                  | 24.54                       | 24.46                | 25.7                |  |
| 5               | QPSK       | 1       | 12        | 24.46               | 24.39                      | 24.32                  | 24.56                       | 24.43                |                     |  |
| 5               | QPSK       | 1       | 24        | 24.39               | 24.38                      | 24.25                  | 24.52                       | 24.33                |                     |  |
| 5               | QPSK       | 12      | 0         | 23.57               | 23.52                      | 23.43                  | 23.64                       | 23.57                | 24.7                |  |
| 5               | QPSK       | 12      | 7         | 23.57               | 23.52                      | 23.47                  | 23.67                       | 23.56                |                     |  |
| 5               | QPSK       | 12      | 13        | 23.56               | 23.48                      | 23.44                  | 23.68                       | 23.51                |                     |  |
| 5               | QPSK       | 25      | 0         | 23.55               | 23.50                      | 23.42                  | 23.63                       | 23.53                | 24.7                |  |
| 5               | 16QAM      | 1       | 0         | 23.60               | 23.53                      | 23.37                  | 23.66                       | 23.59                |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.61               | 23.60                      | 23.51                  | 23.73                       | 23.68                |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.61               | 23.55                      | 23.49                  | 23.68                       | 23.54                | 23.7                |  |
| 5               | 16QAM      | 12      | 0         | 22.55               | 22.49                      | 22.38                  | 22.64                       | 22.52                |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.55               | 22.52                      | 22.43                  | 22.66                       | 22.57                |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.53               | 22.50                      | 22.40                  | 22.65                       | 22.52                | 23.7                |  |
| 5               | 16QAM      | 25      | 0         | 22.60               | 22.54                      | 22.45                  | 22.65                       | 22.58                |                     |  |
| 5               | 64QAM      | 1       | 0         | 22.35               | 22.35                      | 22.18                  | 22.41                       | 22.30                |                     |  |
| 5               | 64QAM      | 1       | 12        | 22.38               | 22.36                      | 22.20                  | 22.47                       | 22.28                | 23.7                |  |
| 5               | 64QAM      | 1       | 24        | 22.38               | 22.36                      | 22.23                  | 22.46                       | 22.23                |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.61               | 21.53                      | 21.50                  | 21.67                       | 21.57                |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.63               | 21.58                      | 21.50                  | 21.70                       | 21.61                | 22.7                |  |
| 5               | 64QAM      | 12      | 13        | 21.58               | 21.57                      | 21.47                  | 21.73                       | 21.64                |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.61               | 21.56                      | 21.46                  | 21.69                       | 21.60                |                     |  |



| Band 41 HPUE    |            |         |           |                      |                             |                         |                              |                       |                     |  |
|-----------------|------------|---------|-----------|----------------------|-----------------------------|-------------------------|------------------------------|-----------------------|---------------------|--|
| Ant 2           |            |         |           |                      |                             |                         |                              |                       |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq | Power Low Middle Ch. / Freq | Power Middle Ch. / Freq | Power High Middle Ch. / Freq | Power High Ch. / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750                | 40185                       | 40620                   | 41055                        | 41490                 |                     |  |
| Frequency (MHz) |            |         |           | 2506                 | 2549.5                      | 2593                    | 2636.5                       | 2680                  |                     |  |
| 20              | QPSK       | 1       | 0         | 25.95                | 25.94                       | 26.04                   | 26.10                        | 25.81                 | 27.5                |  |
| 20              | QPSK       | 1       | 49        | 26.01                | 26.04                       | 26.01                   | 26.39                        | 26.18                 |                     |  |
| 20              | QPSK       | 1       | 99        | 25.92                | 25.97                       | 25.99                   | 25.89                        | 25.96                 |                     |  |
| 20              | QPSK       | 50      | 0         | 25.19                | 25.21                       | 25.15                   | 25.40                        | 25.22                 | 26.5                |  |
| 20              | QPSK       | 50      | 24        | 25.21                | 25.24                       | 25.21                   | 25.45                        | 25.34                 |                     |  |
| 20              | QPSK       | 50      | 50        | 25.18                | 25.21                       | 25.19                   | 25.34                        | 25.29                 |                     |  |
| 20              | QPSK       | 100     | 0         | 25.22                | 25.22                       | 25.20                   | 25.35                        | 25.24                 | 26.0                |  |
| 20              | 16QAM      | 1       | 0         | 25.28                | 25.37                       | 25.40                   | 25.48                        | 25.12                 |                     |  |
| 20              | 16QAM      | 1       | 49        | 25.27                | 25.32                       | 25.26                   | 25.69                        | 25.49                 |                     |  |
| 20              | 16QAM      | 1       | 99        | 25.31                | 25.32                       | 25.32                   | 25.23                        | 25.28                 | 25.5                |  |
| 20              | 16QAM      | 50      | 0         | 24.24                | 24.26                       | 24.18                   | 24.43                        | 24.24                 |                     |  |
| 20              | 16QAM      | 50      | 24        | 24.24                | 24.29                       | 24.22                   | 24.50                        | 24.36                 |                     |  |
| 20              | 16QAM      | 50      | 50        | 24.21                | 24.26                       | 24.21                   | 24.40                        | 24.30                 | 25.0                |  |
| 20              | 16QAM      | 100     | 0         | 24.22                | 24.25                       | 24.22                   | 24.38                        | 24.27                 |                     |  |
| 20              | 64QAM      | 1       | 0         | 24.15                | 24.12                       | 24.20                   | 24.26                        | 24.00                 |                     |  |
| 20              | 64QAM      | 1       | 49        | 24.10                | 24.16                       | 24.13                   | 24.58                        | 24.38                 | 25.5                |  |
| 20              | 64QAM      | 1       | 99        | 24.13                | 24.20                       | 24.17                   | 24.13                        | 24.18                 |                     |  |
| 20              | 64QAM      | 50      | 0         | 23.26                | 23.27                       | 23.18                   | 23.45                        | 23.24                 |                     |  |
| 20              | 64QAM      | 50      | 24        | 23.27                | 23.28                       | 23.27                   | 23.49                        | 23.37                 | 24.5                |  |
| 20              | 64QAM      | 50      | 50        | 23.21                | 23.27                       | 23.23                   | 23.39                        | 23.32                 |                     |  |
| 20              | 64QAM      | 100     | 0         | 23.26                | 23.26                       | 23.23                   | 23.38                        | 23.25                 |                     |  |
| Channel         |            |         |           | 39725                | 40173                       | 40620                   | 41068                        | 41515                 | Turn-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5               | 2546.3                      | 2593                    | 2637.8                       | 2682.5                |                     |  |
| 15              | QPSK       | 1       | 0         | 25.97                | 26.01                       | 25.98                   | 26.26                        | 25.97                 | 27.5                |  |
| 15              | QPSK       | 1       | 37        | 26.01                | 25.97                       | 25.98                   | 26.35                        | 26.18                 |                     |  |
| 15              | QPSK       | 1       | 74        | 25.97                | 26.08                       | 26.03                   | 26.12                        | 26.10                 |                     |  |
| 15              | QPSK       | 36      | 0         | 25.05                | 25.18                       | 25.09                   | 25.40                        | 25.23                 | 26.5                |  |
| 15              | QPSK       | 36      | 20        | 25.13                | 25.17                       | 25.13                   | 25.46                        | 25.29                 |                     |  |
| 15              | QPSK       | 36      | 39        | 25.12                | 25.17                       | 25.10                   | 25.36                        | 25.26                 |                     |  |
| 15              | QPSK       | 75      | 0         | 25.16                | 25.17                       | 25.14                   | 25.42                        | 25.25                 | 26.0                |  |
| 15              | 16QAM      | 1       | 0         | 25.29                | 25.27                       | 25.23                   | 25.56                        | 25.26                 |                     |  |
| 15              | 16QAM      | 1       | 37        | 25.21                | 25.21                       | 25.19                   | 25.63                        | 25.44                 |                     |  |
| 15              | 16QAM      | 1       | 74        | 25.25                | 25.34                       | 25.29                   | 25.45                        | 25.32                 | 26.5                |  |
| 15              | 16QAM      | 36      | 0         | 24.06                | 24.17                       | 24.05                   | 24.35                        | 24.20                 |                     |  |
| 15              | 16QAM      | 36      | 20        | 24.13                | 24.15                       | 24.11                   | 24.47                        | 24.26                 |                     |  |
| 15              | 16QAM      | 36      | 39        | 24.09                | 24.14                       | 24.09                   | 24.37                        | 24.23                 | 25.5                |  |
| 15              | 16QAM      | 75      | 0         | 24.15                | 24.19                       | 24.15                   | 24.45                        | 24.26                 |                     |  |
| 15              | 64QAM      | 1       | 0         | 24.10                | 24.09                       | 24.04                   | 24.37                        | 24.09                 |                     |  |
| 15              | 64QAM      | 1       | 37        | 24.06                | 24.10                       | 24.06                   | 24.51                        | 24.29                 | 25.5                |  |
| 15              | 64QAM      | 1       | 74        | 24.09                | 24.24                       | 24.14                   | 24.31                        | 24.21                 |                     |  |
| 15              | 64QAM      | 36      | 0         | 23.08                | 23.22                       | 23.10                   | 23.40                        | 23.26                 |                     |  |
| 15              | 64QAM      | 36      | 20        | 23.15                | 23.20                       | 23.15                   | 23.51                        | 23.34                 | 24.5                |  |
| 15              | 64QAM      | 36      | 39        | 23.13                | 23.18                       | 23.14                   | 23.37                        | 23.27                 |                     |  |
| 15              | 64QAM      | 75      | 0         | 23.16                | 23.19                       | 23.16                   | 23.45                        | 23.27                 |                     |  |
| Channel         |            |         |           | 39700                | 40160                       | 40620                   | 41080                        | 41540                 | Turn-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                 | 2547                        | 2593                    | 2639                         | 2685                  |                     |  |
| 10              | QPSK       | 1       | 0         | 25.92                | 25.92                       | 25.81                   | 26.20                        | 26.11                 | 27.5                |  |
| 10              | QPSK       | 1       | 25        | 25.92                | 25.94                       | 26.00                   | 26.30                        | 26.13                 |                     |  |
| 10              | QPSK       | 1       | 49        | 25.97                | 25.96                       | 25.90                   | 26.26                        | 26.00                 |                     |  |
| 10              | QPSK       | 25      | 0         | 25.10                | 25.11                       | 25.09                   | 25.41                        | 25.24                 | 26.5                |  |
| 10              | QPSK       | 25      | 12        | 25.16                | 25.13                       | 25.12                   | 25.41                        | 25.26                 |                     |  |
| 10              | QPSK       | 25      | 25        | 25.10                | 25.19                       | 25.11                   | 25.49                        | 25.22                 |                     |  |
| 10              | QPSK       | 50      | 0         | 25.15                | 25.18                       | 25.16                   | 25.45                        | 25.26                 | 26.0                |  |
| 10              | 16QAM      | 1       | 0         | 25.29                | 25.26                       | 25.20                   | 25.53                        | 25.38                 |                     |  |
| 10              | 16QAM      | 1       | 25        | 25.26                | 25.28                       | 25.35                   | 25.67                        | 25.40                 |                     |  |
| 10              | 16QAM      | 1       | 49        | 25.32                | 25.29                       | 25.25                   | 25.57                        | 25.40                 | 26.5                |  |
| 10              | 16QAM      | 25      | 0         | 24.20                | 24.10                       | 24.13                   | 24.46                        | 24.35                 |                     |  |
| 10              | 16QAM      | 25      | 12        | 24.25                | 24.19                       | 24.20                   | 24.45                        | 24.28                 |                     |  |
| 10              | 16QAM      | 25      | 25        | 24.15                | 24.19                       | 24.10                   | 24.47                        | 24.21                 | 25.5                |  |
| 10              | 16QAM      | 50      | 0         | 24.16                | 24.19                       | 24.12                   | 24.46                        | 24.29                 |                     |  |
| 10              | 64QAM      | 1       | 0         | 24.20                | 24.16                       | 24.07                   | 24.48                        | 24.27                 |                     |  |
| 10              | 64QAM      | 1       | 25        | 24.13                | 24.17                       | 24.17                   | 24.50                        | 24.33                 | 25.5                |  |
| 10              | 64QAM      | 1       | 49        | 24.14                | 24.18                       | 24.21                   | 24.47                        | 24.31                 |                     |  |
| 10              | 64QAM      | 25      | 0         | 23.21                | 23.18                       | 23.18                   | 23.44                        | 23.25                 |                     |  |
| 10              | 64QAM      | 25      | 12        | 23.24                | 23.32                       | 23.24                   | 23.48                        | 23.36                 | 24.5                |  |
| 10              | 64QAM      | 25      | 25        | 23.13                | 23.16                       | 23.20                   | 23.52                        | 23.21                 |                     |  |
| 10              | 64QAM      | 50      | 0         | 23.18                | 23.23                       | 23.19                   | 23.44                        | 23.27                 |                     |  |
| Channel         |            |         |           | 39675                | 40148                       | 40620                   | 41093                        | 41565                 | Turn-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2498.5               | 2545.8                      | 2593                    | 2640.30                      | 2687.5                |                     |  |
| 5               | QPSK       | 1       | 0         | 26.01                | 26.01                       | 25.91                   | 26.29                        | 26.11                 | 27.5                |  |
| 5               | QPSK       | 1       | 12        | 26.02                | 26.03                       | 26.02                   | 26.38                        | 26.14                 |                     |  |
| 5               | QPSK       | 1       | 24        | 25.99                | 26.02                       | 25.96                   | 26.31                        | 26.04                 |                     |  |
| 5               | QPSK       | 12      | 0         | 25.16                | 25.19                       | 25.16                   | 25.44                        | 25.31                 | 26.5                |  |
| 5               | QPSK       | 12      | 7         | 25.19                | 25.23                       | 25.19                   | 25.47                        | 25.27                 |                     |  |
| 5               | QPSK       | 12      | 13        | 25.18                | 25.20                       | 25.16                   | 25.52                        | 25.29                 |                     |  |
| 5               | QPSK       | 25      | 0         | 25.16                | 25.18                       | 25.18                   | 25.46                        | 25.27                 | 26.5                |  |
| 5               | 16QAM      | 1       | 0         | 25.38                | 25.36                       | 25.30                   | 25.61                        | 25.46                 |                     |  |
| 5               | 16QAM      | 1       | 12        | 25.37                | 25.34                       | 25.37                   | 25.68                        | 25.45                 |                     |  |
| 5               | 16QAM      | 1       | 24        | 25.36                | 25.39                       | 25.35                   | 25.65                        | 25.43                 | 26.0                |  |
| 5               | 16QAM      | 12      | 0         | 24.20                | 24.20                       | 24.21                   | 24.51                        | 24.36                 |                     |  |
| 5               | 16QAM      | 12      | 7         | 24.27                | 24.24                       | 24.24                   | 24.53                        | 24.32                 |                     |  |
| 5               | 16QAM      | 12      | 13        | 24.20                | 24.21                       | 24.18                   | 24.49                        | 24.28                 | 25.5                |  |
| 5               | 16QAM      | 25      | 0         | 24.18                | 24.26                       | 24.20                   | 24.48                        | 24.34                 |                     |  |
| 5               | 64QAM      | 1       | 0         | 24.26                | 24.24                       | 24.15                   | 24.51                        | 24.37                 |                     |  |
| 5               | 64QAM      | 1       | 12        | 24.20                | 24.24                       | 24.23                   | 24.59                        | 24.36                 | 25.5                |  |
| 5               | 64QAM      | 1       | 24        | 24.24                | 24.23                       | 24.21                   | 24.54                        | 24.31                 |                     |  |
| 5               | 64QAM      | 12      | 0         | 23.23                | 23.28                       | 23.21                   | 23.50                        | 23.35                 |                     |  |
| 5               | 64QAM      | 12      | 7         | 23.25                | 23.32                       | 23.27                   | 23.50                        | 23.37                 | 24.5                |  |
| 5               | 64QAM      | 12      | 13        | 23.22                | 23.26                       | 23.23                   | 23.54                        | 23.31                 |                     |  |
| 5               | 64QAM      | 25      | 0         | 23.20                | 23.29                       | 23.24                   | 23.53                        | 23.37                 |                     |  |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|
| Ant 7           |            |         |           |                       |                              |                               |                        |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |
| 20              | QPSK       | 1       | 0         | 24.21                 | 24.24                        | 24.10                         | 24.13                  | 25.2                |  |
| 20              | QPSK       | 1       | 49        | 24.02                 | 24.06                        | 23.89                         | 23.89                  |                     |  |
| 20              | QPSK       | 1       | 99        | 23.99                 | 23.98                        | 23.84                         | 23.82                  |                     |  |
| 20              | QPSK       | 50      | 0         | 23.24                 | 23.27                        | 23.16                         | 23.16                  | 24.2                |  |
| 20              | QPSK       | 50      | 24        | 23.21                 | 23.13                        | 23.07                         | 23.07                  |                     |  |
| 20              | QPSK       | 50      | 50        | 23.05                 | 23.08                        | 22.94                         | 22.94                  |                     |  |
| 20              | QPSK       | 100     | 0         | 23.15                 | 23.18                        | 23.10                         | 23.10                  | 24.2                |  |
| 20              | 16QAM      | 1       | 0         | 23.33                 | 23.38                        | 23.25                         | 23.28                  |                     |  |
| 20              | 16QAM      | 1       | 49        | 23.12                 | 23.15                        | 22.99                         | 22.98                  |                     |  |
| 20              | 16QAM      | 1       | 99        | 23.10                 | 23.09                        | 22.96                         | 22.96                  | 23.2                |  |
| 20              | 16QAM      | 50      | 0         | 22.27                 | 22.28                        | 22.19                         | 22.20                  |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.23                 | 22.17                        | 22.13                         | 22.14                  |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.08                 | 22.11                        | 21.97                         | 21.97                  | 23.2                |  |
| 20              | 16QAM      | 100     | 0         | 22.21                 | 22.14                        | 22.12                         | 22.10                  |                     |  |
| 20              | 64QAM      | 1       | 0         | 22.04                 | 22.12                        | 22.00                         | 22.00                  |                     |  |
| 20              | 64QAM      | 1       | 49        | 21.86                 | 21.87                        | 21.78                         | 21.75                  | 23.2                |  |
| 20              | 64QAM      | 1       | 99        | 21.83                 | 21.79                        | 21.65                         | 21.68                  |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.27                 | 21.30                        | 21.19                         | 21.19                  |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.23                 | 21.17                        | 21.15                         | 21.14                  | 22.2                |  |
| 20              | 64QAM      | 50      | 50        | 21.09                 | 21.11                        | 20.98                         | 20.98                  |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.21                 | 21.17                        | 21.12                         | 21.12                  |                     |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |
| 15              | QPSK       | 1       | 0         | 24.20                 | 24.16                        | 24.05                         | 24.07                  | 25.2                |  |
| 15              | QPSK       | 1       | 37        | 23.95                 | 24.02                        | 23.86                         | 23.84                  |                     |  |
| 15              | QPSK       | 1       | 74        | 23.98                 | 23.92                        | 23.78                         | 23.81                  |                     |  |
| 15              | QPSK       | 36      | 0         | 23.23                 | 23.25                        | 23.06                         | 23.10                  | 24.2                |  |
| 15              | QPSK       | 36      | 20        | 23.14                 | 23.07                        | 23.00                         | 23.04                  |                     |  |
| 15              | QPSK       | 36      | 39        | 23.03                 | 23.04                        | 22.91                         | 22.90                  |                     |  |
| 15              | QPSK       | 75      | 0         | 23.09                 | 23.07                        | 23.07                         | 23.04                  | 24.2                |  |
| 15              | 16QAM      | 1       | 0         | 23.29                 | 23.28                        | 23.18                         | 23.24                  |                     |  |
| 15              | 16QAM      | 1       | 37        | 23.08                 | 23.14                        | 22.97                         | 22.92                  |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.06                 | 23.00                        | 22.89                         | 22.91                  | 23.2                |  |
| 15              | 16QAM      | 36      | 0         | 22.18                 | 22.23                        | 22.13                         | 22.13                  |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.18                 | 22.10                        | 22.13                         | 22.13                  |                     |  |
| 15              | 16QAM      | 36      | 39        | 22.04                 | 22.01                        | 21.92                         | 21.91                  | 23.2                |  |
| 15              | 16QAM      | 75      | 0         | 22.18                 | 22.14                        | 22.05                         | 22.03                  |                     |  |
| 15              | 64QAM      | 1       | 0         | 21.97                 | 22.09                        | 21.93                         | 21.97                  | 23.2                |  |
| 15              | 64QAM      | 1       | 37        | 21.82                 | 21.86                        | 21.76                         | 21.70                  |                     |  |
| 15              | 64QAM      | 1       | 74        | 21.89                 | 21.77                        | 21.56                         | 21.67                  |                     |  |
| 15              | 64QAM      | 36      | 0         | 21.20                 | 21.30                        | 21.10                         | 21.13                  | 22.2                |  |
| 15              | 64QAM      | 36      | 20        | 21.21                 | 21.09                        | 21.08                         | 21.05                  |                     |  |
| 15              | 64QAM      | 36      | 39        | 21.05                 | 21.09                        | 20.94                         | 20.88                  |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.21                 | 21.10                        | 21.09                         | 21.11                  | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |  |
| 10              | QPSK       | 1       | 0         | 24.11                 | 24.17                        | 24.02                         | 24.12                  | 25.2                |  |
| 10              | QPSK       | 1       | 25        | 24.02                 | 23.99                        | 23.87                         | 23.79                  |                     |  |
| 10              | QPSK       | 1       | 49        | 23.94                 | 23.90                        | 23.75                         | 23.72                  |                     |  |
| 10              | QPSK       | 25      | 0         | 23.14                 | 23.20                        | 23.09                         | 23.13                  | 24.2                |  |
| 10              | QPSK       | 25      | 12        | 23.11                 | 23.06                        | 23.04                         | 22.97                  |                     |  |
| 10              | QPSK       | 25      | 25        | 22.97                 | 23.03                        | 22.86                         | 22.85                  |                     |  |
| 10              | QPSK       | 50      | 0         | 23.17                 | 23.05                        | 23.03                         | 23.05                  | 24.2                |  |
| 10              | 16QAM      | 1       | 0         | 23.27                 | 23.29                        | 23.17                         | 23.28                  |                     |  |
| 10              | 16QAM      | 1       | 25        | 23.06                 | 23.11                        | 22.97                         | 22.90                  |                     |  |
| 10              | 16QAM      | 1       | 49        | 23.00                 | 23.01                        | 22.94                         | 22.86                  | 23.2                |  |
| 10              | 16QAM      | 25      | 0         | 22.21                 | 22.24                        | 22.15                         | 22.11                  |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.18                 | 22.17                        | 22.10                         | 22.14                  |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.08                 | 22.09                        | 21.88                         | 21.88                  | 23.2                |  |
| 10              | 16QAM      | 50      | 0         | 22.12                 | 22.08                        | 22.11                         | 22.00                  |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.02                 | 22.07                        | 21.95                         | 21.90                  |                     |  |
| 10              | 64QAM      | 1       | 25        | 21.86                 | 21.79                        | 21.77                         | 21.71                  | 23.2                |  |
| 10              | 64QAM      | 1       | 49        | 21.80                 | 21.70                        | 21.57                         | 21.55                  |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.18                 | 21.26                        | 21.15                         | 21.10                  |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.23                 | 21.12                        | 21.12                         | 21.08                  | 22.2                |  |
| 10              | 64QAM      | 25      | 25        | 21.06                 | 21.01                        | 20.98                         | 20.94                  |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.13                 | 21.09                        | 21.09                         | 21.05                  |                     |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |  |
| 5               | QPSK       | 1       | 0         | 24.12                 | 24.19                        | 24.10                         | 24.10                  | 25.2                |  |
| 5               | QPSK       | 1       | 12        | 23.99                 | 23.99                        | 23.86                         | 23.79                  |                     |  |
| 5               | QPSK       | 1       | 24        | 23.99                 | 23.96                        | 23.80                         | 23.80                  |                     |  |
| 5               | QPSK       | 12      | 0         | 23.17                 | 23.22                        | 23.09                         | 23.09                  | 24.2                |  |
| 5               | QPSK       | 12      | 7         | 23.11                 | 23.10                        | 23.04                         | 23.00                  |                     |  |
| 5               | QPSK       | 12      | 13        | 22.95                 | 23.05                        | 22.92                         | 22.87                  |                     |  |
| 5               | QPSK       | 25      | 0         | 23.09                 | 23.04                        | 23.02                         | 23.00                  | 24.2                |  |
| 5               | 16QAM      | 1       | 0         | 23.32                 | 23.30                        | 23.19                         | 23.18                  |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.04                 | 23.13                        | 22.97                         | 22.93                  |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.10                 | 23.07                        | 22.94                         | 22.87                  | 23.2                |  |
| 5               | 16QAM      | 12      | 0         | 22.25                 | 22.21                        | 22.09                         | 22.20                  |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.16                 | 22.09                        | 22.03                         | 22.12                  |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.01                 | 22.11                        | 21.96                         | 21.88                  | 23.2                |  |
| 5               | 16QAM      | 25      | 0         | 22.15                 | 22.10                        | 22.04                         | 22.10                  |                     |  |
| 5               | 64QAM      | 1       | 0         | 21.96                 | 22.10                        | 21.91                         | 21.90                  |                     |  |
| 5               | 64QAM      | 1       | 12        | 21.86                 | 21.85                        | 21.75                         | 21.67                  | 23.2                |  |
| 5               | 64QAM      | 1       | 24        | 21.77                 | 21.72                        | 21.57                         | 21.64                  |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.19                 | 21.23                        | 21.19                         | 21.15                  |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.15                 | 21.17                        | 21.11                         | 21.07                  | 22.2                |  |
| 5               | 64QAM      | 12      | 13        | 21.06                 | 21.11                        | 20.89                         | 20.97                  |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.16                 | 21.09                        | 21.02                         | 21.02                  | Tune-up limit (dBm) |  |



| Band 38         |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ann 0           |            |         |           |                             |                                |                              |                           |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37850                       | 38000                          | 38150                        |                           |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                           |
| 20              | QPSK       | 1       | 0         | 24.16                       | 24.06                          | 24.03                        | 25.7                      |
| 20              | QPSK       | 1       | 49        | 24.08                       | 24.02                          | 23.96                        |                           |
| 20              | QPSK       | 1       | 99        | 24.06                       | 23.99                          | 23.92                        |                           |
| 20              | QPSK       | 50      | 0         | 23.25                       | 23.14                          | 23.06                        |                           |
| 20              | QPSK       | 50      | 24        | 23.26                       | 23.15                          | 23.11                        |                           |
| 20              | QPSK       | 50      | 50        | 23.20                       | 23.14                          | 23.07                        | 24.7                      |
| 20              | QPSK       | 100     | 0         | 23.23                       | 23.10                          | 23.11                        |                           |
| 20              | 16QAM      | 1       | 0         | 23.23                       | 23.16                          | 23.06                        |                           |
| 20              | 16QAM      | 1       | 49        | 23.16                       | 23.12                          | 23.03                        | 24.7                      |
| 20              | 16QAM      | 1       | 99        | 23.14                       | 23.12                          | 23.01                        |                           |
| 20              | 16QAM      | 50      | 0         | 22.29                       | 22.16                          | 22.07                        |                           |
| 20              | 16QAM      | 50      | 24        | 22.25                       | 22.14                          | 22.13                        | 23.7                      |
| 20              | 16QAM      | 50      | 50        | 22.24                       | 22.17                          | 22.09                        |                           |
| 20              | 16QAM      | 100     | 0         | 22.25                       | 22.13                          | 22.11                        |                           |
| 20              | 64QAM      | 1       | 0         | 21.95                       | 21.88                          | 21.77                        | 23.7                      |
| 20              | 64QAM      | 1       | 49        | 21.90                       | 21.84                          | 21.75                        |                           |
| 20              | 64QAM      | 1       | 99        | 21.88                       | 21.83                          | 21.72                        |                           |
| 20              | 64QAM      | 50      | 0         | 21.30                       | 21.18                          | 21.09                        | 22.7                      |
| 20              | 64QAM      | 50      | 24        | 21.27                       | 21.13                          | 21.14                        |                           |
| 20              | 64QAM      | 50      | 50        | 21.26                       | 21.19                          | 21.10                        |                           |
| 20              | 64QAM      | 100     | 0         | 21.26                       | 21.13                          | 21.12                        |                           |
| Channel         |            |         |           | 37825                       | 38000                          | 38175                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                           |
| 15              | QPSK       | 1       | 0         | 24.09                       | 24.04                          | 23.96                        | 25.7                      |
| 15              | QPSK       | 1       | 37        | 24.03                       | 24.01                          | 23.91                        |                           |
| 15              | QPSK       | 1       | 74        | 24.07                       | 24.02                          | 23.92                        |                           |
| 15              | QPSK       | 36      | 0         | 23.25                       | 23.12                          | 23.03                        |                           |
| 15              | QPSK       | 36      | 20        | 23.24                       | 23.08                          | 23.01                        |                           |
| 15              | QPSK       | 36      | 39        | 23.19                       | 23.15                          | 23.04                        | 24.7                      |
| 15              | QPSK       | 75      | 0         | 23.21                       | 23.08                          | 23.02                        |                           |
| 15              | 16QAM      | 1       | 0         | 23.23                       | 23.17                          | 23.10                        |                           |
| 15              | 16QAM      | 1       | 37        | 23.06                       | 23.03                          | 22.98                        | 24.7                      |
| 15              | 16QAM      | 1       | 74        | 23.19                       | 23.14                          | 23.06                        |                           |
| 15              | 16QAM      | 36      | 0         | 22.22                       | 22.10                          | 22.02                        |                           |
| 15              | 16QAM      | 36      | 20        | 22.20                       | 22.05                          | 21.96                        | 23.7                      |
| 15              | 16QAM      | 36      | 39        | 22.16                       | 22.11                          | 22.02                        |                           |
| 15              | 16QAM      | 75      | 0         | 22.25                       | 22.11                          | 22.03                        |                           |
| 15              | 64QAM      | 1       | 0         | 21.88                       | 21.84                          | 21.73                        | 23.7                      |
| 15              | 64QAM      | 1       | 37        | 21.94                       | 21.84                          | 21.77                        |                           |
| 15              | 64QAM      | 1       | 74        | 21.89                       | 21.83                          | 21.73                        |                           |
| 15              | 64QAM      | 36      | 0         | 21.26                       | 21.14                          | 21.07                        | 22.7                      |
| 15              | 64QAM      | 36      | 20        | 21.24                       | 21.10                          | 21.00                        |                           |
| 15              | 64QAM      | 36      | 39        | 21.25                       | 21.17                          | 21.06                        |                           |
| 15              | 64QAM      | 75      | 0         | 21.25                       | 21.12                          | 21.03                        |                           |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                           |
| 10              | QPSK       | 1       | 0         | 24.09                       | 23.99                          | 23.91                        | 25.7                      |
| 10              | QPSK       | 1       | 25        | 24.00                       | 23.96                          | 23.91                        |                           |
| 10              | QPSK       | 1       | 49        | 24.03                       | 24.01                          | 23.91                        |                           |
| 10              | QPSK       | 25      | 0         | 23.15                       | 23.12                          | 23.01                        |                           |
| 10              | QPSK       | 25      | 12        | 23.19                       | 23.07                          | 22.99                        |                           |
| 10              | QPSK       | 25      | 25        | 23.10                       | 23.13                          | 22.99                        | 24.7                      |
| 10              | QPSK       | 50      | 0         | 23.11                       | 23.03                          | 22.95                        |                           |
| 10              | 16QAM      | 1       | 0         | 23.13                       | 23.08                          | 23.03                        |                           |
| 10              | 16QAM      | 1       | 25        | 23.04                       | 22.97                          | 22.94                        | 24.7                      |
| 10              | 16QAM      | 1       | 49        | 23.10                       | 23.08                          | 23.02                        |                           |
| 10              | 16QAM      | 25      | 0         | 22.17                       | 22.00                          | 21.97                        |                           |
| 10              | 16QAM      | 25      | 12        | 22.13                       | 21.96                          | 21.91                        | 23.7                      |
| 10              | 16QAM      | 25      | 25        | 22.10                       | 22.06                          | 22.00                        |                           |
| 10              | 16QAM      | 50      | 0         | 22.20                       | 22.02                          | 21.99                        |                           |
| 10              | 64QAM      | 1       | 0         | 21.86                       | 21.76                          | 21.70                        | 23.7                      |
| 10              | 64QAM      | 1       | 25        | 21.92                       | 21.79                          | 21.70                        |                           |
| 10              | 64QAM      | 1       | 49        | 21.83                       | 21.75                          | 21.70                        |                           |
| 10              | 64QAM      | 25      | 0         | 21.19                       | 21.12                          | 21.05                        | 22.7                      |
| 10              | 64QAM      | 25      | 12        | 21.18                       | 21.08                          | 21.00                        |                           |
| 10              | 64QAM      | 25      | 25        | 21.19                       | 21.11                          | 21.01                        |                           |
| 10              | 64QAM      | 50      | 0         | 21.17                       | 21.04                          | 21.01                        |                           |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                           |
| 5               | QPSK       | 1       | 0         | 24.15                       | 24.05                          | 23.94                        | 25.7                      |
| 5               | QPSK       | 1       | 12        | 24.09                       | 24.02                          | 23.94                        |                           |
| 5               | QPSK       | 1       | 24        | 24.10                       | 23.99                          | 23.95                        |                           |
| 5               | QPSK       | 12      | 0         | 23.21                       | 23.11                          | 23.08                        |                           |
| 5               | QPSK       | 12      | 7         | 23.26                       | 23.20                          | 23.06                        |                           |
| 5               | QPSK       | 12      | 13        | 23.20                       | 23.18                          | 23.05                        | 24.7                      |
| 5               | QPSK       | 25      | 0         | 23.25                       | 23.09                          | 23.06                        |                           |
| 5               | 16QAM      | 1       | 0         | 23.28                       | 23.17                          | 23.11                        |                           |
| 5               | 16QAM      | 1       | 12        | 23.28                       | 23.26                          | 23.18                        | 24.7                      |
| 5               | 16QAM      | 1       | 24        | 23.28                       | 23.22                          | 23.12                        |                           |
| 5               | 16QAM      | 12      | 0         | 22.21                       | 22.09                          | 22.05                        |                           |
| 5               | 16QAM      | 12      | 7         | 22.23                       | 22.13                          | 22.06                        | 23.7                      |
| 5               | 16QAM      | 12      | 13        | 22.18                       | 22.13                          | 22.02                        |                           |
| 5               | 16QAM      | 25      | 0         | 22.24                       | 22.14                          | 22.10                        |                           |
| 5               | 64QAM      | 1       | 0         | 21.80                       | 21.74                          | 21.70                        | 23.7                      |
| 5               | 64QAM      | 1       | 12        | 21.90                       | 21.84                          | 21.76                        |                           |
| 5               | 64QAM      | 1       | 24        | 21.81                       | 21.82                          | 21.70                        |                           |
| 5               | 64QAM      | 12      | 0         | 21.27                       | 21.07                          | 20.97                        | 22.7                      |
| 5               | 64QAM      | 12      | 7         | 21.20                       | 21.02                          | 20.91                        |                           |
| 5               | 64QAM      | 12      | 13        | 21.19                       | 21.14                          | 21.05                        |                           |
| 5               | 64QAM      | 25      | 0         | 21.19                       | 21.02                          | 20.97                        |                           |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|--|
| Ann 0           |            |         |           |                     |                            |                        |                             |                      |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |  |
| 20              | QPSK       | 1       | 0         | 23.94               | 23.81                      | 23.87                  | 23.85                       | 23.52                | 25.7                |  |  |
| 20              | QPSK       | 1       | 49        | 23.85               | 23.79                      | 23.76                  | 24.08                       | 23.88                |                     |  |  |
| 20              | QPSK       | 1       | 99        | 23.84               | 23.79                      | 23.82                  | 23.58                       | 23.75                |                     |  |  |
| 20              | QPSK       | 50      | 0         | 23.05               | 22.96                      | 22.85                  | 23.02                       | 22.86                | 24.7                |  |  |
| 20              | QPSK       | 50      | 24        | 23.06               | 22.97                      | 22.93                  | 23.06                       | 22.98                |                     |  |  |
| 20              | QPSK       | 50      | 50        | 22.98               | 22.94                      | 22.90                  | 22.98                       | 22.93                |                     |  |  |
| 20              | QPSK       | 100     | 0         | 23.04               | 22.96                      | 22.91                  | 23.05                       | 22.89                | 24.7                |  |  |
| 20              | 16QAM      | 1       | 0         | 23.09               | 22.93                      | 22.99                  | 22.98                       | 22.93                |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 22.97               | 22.92                      | 22.87                  | 23.18                       | 22.98                |                     |  |  |
| 20              | 16QAM      | 1       | 99        | 22.97               | 22.97                      | 22.94                  | 22.70                       | 22.84                | 23.7                |  |  |
| 20              | 16QAM      | 50      | 0         | 22.08               | 22.00                      | 21.90                  | 22.06                       | 21.87                |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.10               | 22.01                      | 21.96                  | 22.08                       | 22.01                |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 22.03               | 21.98                      | 21.94                  | 22.01                       | 21.96                | 23.7                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.06               | 21.98                      | 21.95                  | 21.99                       | 21.91                |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 21.82               | 21.66                      | 21.68                  | 21.59                       | 21.40                |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 21.73               | 21.71                      | 21.65                  | 21.83                       | 21.80                | 22.7                |  |  |
| 20              | 64QAM      | 1       | 99        | 21.74               | 21.75                      | 21.66                  | 21.43                       | 21.61                |                     |  |  |
| 20              | 64QAM      | 50      | 0         | 21.10               | 21.02                      | 20.92                  | 21.07                       | 20.90                |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 21.11               | 21.01                      | 20.97                  | 21.12                       | 20.99                | 22.7                |  |  |
| 20              | 64QAM      | 50      | 50        | 21.02               | 20.98                      | 20.95                  | 21.03                       | 20.96                |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.07               | 21.01                      | 20.98                  | 21.01                       | 20.93                |                     |  |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Turn-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |  |
| 15              | QPSK       | 1       | 0         | 23.90               | 23.82                      | 23.79                  | 23.94                       | 23.70                | 25.7                |  |  |
| 15              | QPSK       | 1       | 37        | 23.85               | 23.76                      | 23.72                  | 24.02                       | 23.86                |                     |  |  |
| 15              | QPSK       | 1       | 74        | 23.84               | 23.86                      | 23.84                  | 23.77                       | 23.82                |                     |  |  |
| 15              | QPSK       | 36      | 0         | 22.93               | 22.95                      | 22.85                  | 23.06                       | 22.90                | 24.7                |  |  |
| 15              | QPSK       | 36      | 20        | 23.02               | 22.91                      | 22.91                  | 23.12                       | 22.99                |                     |  |  |
| 15              | QPSK       | 36      | 39        | 22.88               | 22.94                      | 22.89                  | 23.03                       | 22.95                |                     |  |  |
| 15              | QPSK       | 75      | 0         | 23.03               | 22.95                      | 22.93                  | 23.07                       | 22.95                | 24.7                |  |  |
| 15              | 16QAM      | 1       | 0         | 23.09               | 22.99                      | 22.98                  | 23.10                       | 22.78                |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 22.93               | 22.90                      | 22.82                  | 23.13                       | 22.96                |                     |  |  |
| 15              | 16QAM      | 1       | 74        | 23.00               | 23.05                      | 23.00                  | 22.94                       | 22.95                | 23.7                |  |  |
| 15              | 16QAM      | 36      | 0         | 21.95               | 21.93                      | 21.82                  | 22.01                       | 21.85                |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 22.03               | 21.90                      | 21.89                  | 22.09                       | 21.95                |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 21.97               | 21.91                      | 21.86                  | 22.00                       | 21.92                | 22.7                |  |  |
| 15              | 16QAM      | 75      | 0         | 22.05               | 21.97                      | 21.93                  | 22.09                       | 21.96                |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 21.79               | 21.79                      | 21.73                  | 21.76                       | 21.71                |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 21.74               | 21.72                      | 21.70                  | 21.90                       | 21.73                | 23.7                |  |  |
| 15              | 64QAM      | 1       | 74        | 21.74               | 21.86                      | 21.71                  | 21.75                       | 21.78                |                     |  |  |
| 15              | 64QAM      | 36      | 0         | 20.87               | 20.99                      | 20.90                  | 21.07                       | 20.82                |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 21.02               | 20.97                      | 20.93                  | 21.14                       | 21.01                | 22.7                |  |  |
| 15              | 64QAM      | 36      | 39        | 21.01               | 20.97                      | 20.94                  | 21.07                       | 20.96                |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 21.09               | 20.97                      | 20.94                  | 21.11                       | 20.95                |                     |  |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Turn-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |  |
| 10              | QPSK       | 1       | 0         | 23.88               | 23.75                      | 23.72                  | 23.84                       | 23.70                | 25.7                |  |  |
| 10              | QPSK       | 1       | 25        | 23.83               | 23.70                      | 23.70                  | 23.94                       | 23.84                |                     |  |  |
| 10              | QPSK       | 1       | 49        | 23.75               | 23.78                      | 23.84                  | 23.77                       | 23.74                |                     |  |  |
| 10              | QPSK       | 25      | 0         | 22.81               | 22.91                      | 22.82                  | 23.04                       | 22.89                | 24.7                |  |  |
| 10              | QPSK       | 25      | 12        | 22.82               | 22.81                      | 22.91                  | 23.02                       | 22.97                |                     |  |  |
| 10              | QPSK       | 25      | 25        | 22.89               | 22.86                      | 22.87                  | 22.84                       | 22.86                |                     |  |  |
| 10              | QPSK       | 50      | 0         | 22.94               | 22.85                      | 22.92                  | 23.05                       | 22.95                | 24.7                |  |  |
| 10              | 16QAM      | 1       | 0         | 23.04               | 22.97                      | 22.92                  | 23.05                       | 22.70                |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 22.83               | 22.90                      | 22.72                  | 23.12                       | 22.87                |                     |  |  |
| 10              | 16QAM      | 1       | 49        | 22.83               | 23.00                      | 22.99                  | 22.92                       | 22.87                | 23.7                |  |  |
| 10              | 16QAM      | 25      | 0         | 21.81               | 21.92                      | 21.74                  | 21.91                       | 21.85                |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 22.01               | 21.81                      | 21.85                  | 22.06                       | 21.85                |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 21.94               | 21.89                      | 21.78                  | 21.98                       | 21.83                | 22.7                |  |  |
| 10              | 16QAM      | 50      | 0         | 21.97               | 21.96                      | 21.86                  | 22.02                       | 21.91                |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.76               | 21.70                      | 21.74                  | 21.79                       | 21.71                |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.72               | 21.77                      | 21.75                  | 21.81                       | 21.77                | 23.7                |  |  |
| 10              | 64QAM      | 1       | 49        | 21.70               | 21.79                      | 21.70                  | 21.79                       | 21.70                |                     |  |  |
| 10              | 64QAM      | 25      | 0         | 20.87               | 20.93                      | 20.80                  | 21.07                       | 20.84                |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.99               | 20.88                      | 20.92                  | 21.10                       | 20.97                | 22.7                |  |  |
| 10              | 64QAM      | 25      | 25        | 20.87               | 20.87                      | 20.89                  | 21.00                       | 20.92                |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 21.03               | 20.87                      | 20.84                  | 21.08                       | 20.89                |                     |  |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Turn-up limit (dBm) |  |  |
| Frequency (MHz) |            |         |           | 2495.5              | 2545.8                     | 2593                   | 2640.0                      | 2687.5               |                     |  |  |
| 5               | QPSK       | 1       | 0         | 24.04               | 23.87                      | 23.75                  | 24.02                       | 23.89                | 25.7                |  |  |
| 5               | QPSK       | 1       | 12        | 23.95               | 23.87                      | 23.86                  | 24.04                       | 23.88                |                     |  |  |
| 5               | QPSK       | 1       | 24        | 23.88               | 23.85                      | 23.81                  | 24.02                       | 23.79                |                     |  |  |
| 5               | QPSK       | 12      | 0         | 23.09               | 22.98                      | 22.96                  | 23.15                       | 23.03                | 24.7                |  |  |
| 5               | QPSK       | 12      | 7         | 23.09               | 23.01                      | 22.95                  | 23.17                       | 23.02                |                     |  |  |
| 5               | QPSK       | 12      | 13        | 23.07               | 22.96                      | 22.95                  | 23.17                       | 23.03                |                     |  |  |
| 5               | QPSK       | 25      | 0         | 23.08               | 22.98                      | 22.92                  | 23.12                       | 22.98                | 24.7                |  |  |
| 5               | 16QAM      | 1       | 0         | 23.12               | 22.99                      | 22.92                  | 23.13                       | 23.02                |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 23.14               | 23.03                      | 23.04                  | 23.26                       | 23.11                |                     |  |  |
| 5               | 16QAM      | 1       | 24        | 23.14               | 23.00                      | 23.00                  | 23.18                       | 23.01                | 23.7                |  |  |
| 5               | 16QAM      | 12      | 0         | 22.07               | 21.97                      | 21.94                  | 22.11                       | 22.03                |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.09               | 22.01                      | 21.97                  | 22.13                       | 22.00                |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.06               | 21.98                      | 21.95                  | 22.12                       | 21.97                | 23.7                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.14               | 22.03                      | 21.99                  | 22.14                       | 22.02                |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.83               | 21.95                      | 21.88                  | 21.91                       | 21.88                |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.86               | 21.84                      | 21.86                  | 22.00                       | 21.90                | 23.7                |  |  |
| 5               | 64QAM      | 1       | 24        | 21.84               | 22.02                      | 21.86                  | 21.95                       | 21.88                |                     |  |  |
| 5               | 64QAM      | 12      | 0         | 21.16               | 21.13                      | 21.04                  | 21.27                       | 21.06                |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.14               | 21.10                      | 21.13                  | 21.25                       | 21.20                | 22.7                |  |  |
| 5               | 64QAM      | 12      | 13        | 21.18               | 21.13                      | 21.06                  | 21.19                       | 21.11                |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.27               | 21.15                      | 21.08                  | 21.21                       | 21.08                |                     |  |  |



| Band 41 HPUE    |            |         |           |                     |                            |                        |                             |                      |                     |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|
| Ant 9           |            |         |           |                     |                            |                        |                             |                      |                     |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low-Middle Ch / Freq | Power Middle Ch / Freq | Power High-Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |
| 20              | QPSK       | 1       | 0         | 25.71               | 25.60                      | 25.64                  | 25.74                       | 25.50                | 27.5                |
| 20              | QPSK       | 1       | 49        | 25.74               | 25.66                      | 25.64                  | 26.04                       | 25.86                |                     |
| 20              | QPSK       | 1       | 99        | 25.81               | 25.58                      | 25.61                  | 25.50                       | 25.64                |                     |
| 20              | QPSK       | 50      | 0         | 24.93               | 24.86                      | 24.76                  | 25.02                       | 24.88                | 26.5                |
| 20              | QPSK       | 50      | 24        | 24.94               | 24.85                      | 24.84                  | 25.09                       | 25.00                |                     |
| 20              | QPSK       | 50      | 50        | 24.86               | 24.83                      | 24.82                  | 25.01                       | 24.97                |                     |
| 20              | QPSK       | 100     | 0         | 24.82               | 24.86                      | 24.83                  | 24.95                       | 24.90                | 26.5                |
| 20              | 16QAM      | 1       | 0         | 25.07               | 24.95                      | 25.03                  | 25.13                       | 24.75                |                     |
| 20              | 16QAM      | 1       | 49        | 24.99               | 24.95                      | 24.92                  | 25.34                       | 25.14                |                     |
| 20              | 16QAM      | 1       | 99        | 24.97               | 24.92                      | 24.94                  | 24.82                       | 24.98                | 25.5                |
| 20              | 16QAM      | 50      | 0         | 23.94               | 23.89                      | 23.79                  | 24.07                       | 23.89                |                     |
| 20              | 16QAM      | 50      | 24        | 23.96               | 23.91                      | 23.87                  | 24.11                       | 24.01                |                     |
| 20              | 16QAM      | 50      | 50        | 23.81               | 23.88                      | 23.86                  | 24.01                       | 23.98                | 24.5                |
| 20              | 16QAM      | 100     | 0         | 23.97               | 23.88                      | 23.87                  | 23.98                       | 23.94                |                     |
| 20              | 64QAM      | 1       | 0         | 23.88               | 23.75                      | 23.80                  | 23.88                       | 23.64                |                     |
| 20              | 64QAM      | 1       | 49        | 23.80               | 23.79                      | 23.74                  | 24.20                       | 23.99                | 24.5                |
| 20              | 64QAM      | 1       | 99        | 23.82               | 23.80                      | 23.79                  | 23.70                       | 23.86                |                     |
| 20              | 64QAM      | 50      | 0         | 22.99               | 22.89                      | 22.81                  | 23.09                       | 22.93                |                     |
| 20              | 64QAM      | 50      | 24        | 22.96               | 22.91                      | 22.86                  | 23.10                       | 23.03                | 24.5                |
| 20              | 64QAM      | 50      | 50        | 22.92               | 22.89                      | 22.86                  | 23.05                       | 23.01                |                     |
| 20              | 64QAM      | 100     | 0         | 22.96               | 22.90                      | 22.87                  | 23.01                       | 22.94                |                     |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               | (dBm)               |
| 15              | QPSK       | 1       | 0         | 25.80               | 25.70                      | 25.65                  | 25.91                       | 25.65                | 27.5                |
| 15              | QPSK       | 1       | 37        | 25.76               | 25.64                      | 25.60                  | 26.02                       | 25.84                |                     |
| 15              | QPSK       | 1       | 74        | 25.69               | 25.76                      | 25.72                  | 25.74                       | 25.79                |                     |
| 15              | QPSK       | 36      | 0         | 24.83               | 24.86                      | 24.75                  | 25.05                       | 24.90                | 26.5                |
| 15              | QPSK       | 36      | 20        | 24.91               | 24.82                      | 24.82                  | 25.12                       | 24.99                |                     |
| 15              | QPSK       | 36      | 39        | 24.86               | 24.82                      | 24.80                  | 25.02                       | 24.95                |                     |
| 15              | QPSK       | 75      | 0         | 24.83               | 24.84                      | 24.83                  | 25.08                       | 24.95                | 26.5                |
| 15              | 16QAM      | 1       | 0         | 25.08               | 25.00                      | 24.98                  | 25.21                       | 24.97                |                     |
| 15              | 16QAM      | 1       | 37        | 24.97               | 24.91                      | 24.83                  | 25.28                       | 25.15                |                     |
| 15              | 16QAM      | 1       | 74        | 24.95               | 25.03                      | 24.98                  | 25.06                       | 25.08                | 25.5                |
| 15              | 16QAM      | 36      | 0         | 23.84               | 23.86                      | 23.75                  | 24.04                       | 23.87                |                     |
| 15              | 16QAM      | 36      | 20        | 23.89               | 23.83                      | 23.80                  | 24.12                       | 23.96                |                     |
| 15              | 16QAM      | 36      | 39        | 23.85               | 23.83                      | 23.77                  | 24.02                       | 23.96                | 25.5                |
| 15              | 16QAM      | 75      | 0         | 23.94               | 23.87                      | 23.82                  | 24.10                       | 23.95                |                     |
| 15              | 64QAM      | 1       | 0         | 23.87               | 23.76                      | 23.70                  | 24.04                       | 23.77                |                     |
| 15              | 64QAM      | 1       | 37        | 23.86               | 23.79                      | 23.71                  | 24.19                       | 23.97                | 24.5                |
| 15              | 64QAM      | 1       | 74        | 23.84               | 23.89                      | 23.82                  | 23.90                       | 23.95                |                     |
| 15              | 64QAM      | 36      | 0         | 22.86               | 22.87                      | 22.77                  | 23.06                       | 22.84                |                     |
| 15              | 64QAM      | 36      | 20        | 22.96               | 22.85                      | 22.82                  | 23.16                       | 23.01                | 24.5                |
| 15              | 64QAM      | 36      | 39        | 22.92               | 22.85                      | 22.81                  | 23.04                       | 22.97                |                     |
| 15              | 64QAM      | 75      | 0         | 22.95               | 22.88                      | 22.86                  | 23.10                       | 22.96                |                     |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 | (dBm)               |
| 10              | QPSK       | 1       | 0         | 25.80               | 25.66                      | 25.54                  | 25.82                       | 25.81                | 27.5                |
| 10              | QPSK       | 1       | 25        | 25.72               | 25.61                      | 25.64                  | 25.99                       | 25.85                |                     |
| 10              | QPSK       | 1       | 49        | 25.67               | 25.68                      | 25.58                  | 25.97                       | 25.69                |                     |
| 10              | QPSK       | 25      | 0         | 24.83               | 24.78                      | 24.87                  | 25.13                       | 25.03                | 26.5                |
| 10              | QPSK       | 25      | 12        | 25.00               | 24.86                      | 24.87                  | 25.12                       | 24.99                |                     |
| 10              | QPSK       | 25      | 25        | 24.92               | 24.83                      | 24.79                  | 25.15                       | 24.99                |                     |
| 10              | QPSK       | 50      | 0         | 24.92               | 24.78                      | 24.88                  | 25.11                       | 25.00                | 26.5                |
| 10              | 16QAM      | 1       | 0         | 25.12               | 25.05                      | 24.90                  | 25.26                       | 25.10                |                     |
| 10              | 16QAM      | 1       | 25        | 25.12               | 24.95                      | 24.93                  | 25.25                       | 25.18                |                     |
| 10              | 16QAM      | 1       | 49        | 25.16               | 24.97                      | 25.02                  | 25.30                       | 25.05                | 25.5                |
| 10              | 16QAM      | 25      | 0         | 24.00               | 23.85                      | 23.84                  | 24.11                       | 23.98                |                     |
| 10              | 16QAM      | 25      | 12        | 24.07               | 23.95                      | 23.87                  | 24.13                       | 24.10                |                     |
| 10              | 16QAM      | 25      | 25        | 23.91               | 23.85                      | 23.85                  | 24.12                       | 24.00                | 24.5                |
| 10              | 16QAM      | 50      | 0         | 23.92               | 23.84                      | 23.91                  | 24.17                       | 24.06                |                     |
| 10              | 64QAM      | 1       | 0         | 24.05               | 23.82                      | 23.86                  | 24.20                       | 24.06                |                     |
| 10              | 64QAM      | 1       | 25        | 23.93               | 23.85                      | 23.91                  | 24.20                       | 24.03                | 24.5                |
| 10              | 64QAM      | 1       | 49        | 23.97               | 23.95                      | 23.86                  | 24.15                       | 24.04                |                     |
| 10              | 64QAM      | 25      | 0         | 23.02               | 22.86                      | 22.90                  | 23.12                       | 23.08                |                     |
| 10              | 64QAM      | 25      | 12        | 23.04               | 22.96                      | 22.94                  | 23.14                       | 23.02                | 24.5                |
| 10              | 64QAM      | 25      | 25        | 22.94               | 22.84                      | 22.91                  | 23.21                       | 23.01                |                     |
| 10              | 64QAM      | 50      | 0         | 22.97               | 22.96                      | 22.84                  | 23.10                       | 23.03                |                     |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               | (dBm)               |
| 5               | QPSK       | 1       | 0         | 25.84               | 25.69                      | 25.61                  | 25.94                       | 25.85                | 27.5                |
| 5               | QPSK       | 1       | 12        | 25.82               | 25.68                      | 25.74                  | 26.03                       | 25.87                |                     |
| 5               | QPSK       | 1       | 24        | 25.77               | 25.68                      | 25.66                  | 25.98                       | 25.75                |                     |
| 5               | QPSK       | 12      | 0         | 24.99               | 24.87                      | 24.88                  | 25.18                       | 25.07                | 26.5                |
| 5               | QPSK       | 12      | 7         | 25.00               | 24.91                      | 24.90                  | 25.20                       | 25.06                |                     |
| 5               | QPSK       | 12      | 13        | 24.98               | 24.89                      | 24.87                  | 25.24                       | 25.00                |                     |
| 5               | QPSK       | 25      | 0         | 24.98               | 24.88                      | 24.88                  | 25.14                       | 25.02                | 26.5                |
| 5               | 16QAM      | 1       | 0         | 25.19               | 25.05                      | 24.98                  | 25.29                       | 25.18                |                     |
| 5               | 16QAM      | 1       | 12        | 25.14               | 25.05                      | 25.03                  | 25.35                       | 25.18                |                     |
| 5               | 16QAM      | 1       | 24        | 25.16               | 25.05                      | 25.05                  | 25.31                       | 25.13                | 25.5                |
| 5               | 16QAM      | 12      | 0         | 24.02               | 23.90                      | 23.92                  | 24.20                       | 24.07                |                     |
| 5               | 16QAM      | 12      | 7         | 24.07               | 23.95                      | 23.96                  | 24.23                       | 24.13                |                     |
| 5               | 16QAM      | 12      | 13        | 24.01               | 23.92                      | 23.90                  | 24.21                       | 24.04                | 24.5                |
| 5               | 16QAM      | 25      | 0         | 24.02               | 23.94                      | 23.91                  | 24.20                       | 24.10                |                     |
| 5               | 64QAM      | 1       | 0         | 24.06               | 23.91                      | 23.87                  | 24.20                       | 24.07                |                     |
| 5               | 64QAM      | 1       | 12        | 24.03               | 23.92                      | 23.91                  | 24.25                       | 24.07                | 24.5                |
| 5               | 64QAM      | 1       | 24        | 24.04               | 23.95                      | 23.94                  | 24.22                       | 24.05                |                     |
| 5               | 64QAM      | 12      | 0         | 23.07               | 22.94                      | 22.92                  | 23.22                       | 23.13                |                     |
| 5               | 64QAM      | 12      | 7         | 23.05               | 22.98                      | 22.95                  | 23.24                       | 23.11                | 24.5                |
| 5               | 64QAM      | 12      | 13        | 23.03               | 22.94                      | 22.94                  | 23.26                       | 23.07                |                     |
| 5               | 64QAM      | 25      | 0         | 23.04               | 22.97                      | 22.93                  | 23.20                       | 23.09                |                     |



| Band 48         |            |         |           |                             |                                    |                                     |                              |                           |  |
|-----------------|------------|---------|-----------|-----------------------------|------------------------------------|-------------------------------------|------------------------------|---------------------------|--|
| Ant 2           |            |         |           |                             |                                    |                                     |                              |                           |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Low Middle<br>Ch. / Freq. | Power<br>High Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |  |
| Channel         |            |         |           | 55340                       | 55830                              | 56160                               | 56640                        |                           |  |
| Frequency (MHz) |            |         |           | 3560                        | 3609                               | 3641                                | 3690                         |                           |  |
| 20              | QPSK       | 1       | 0         | 21.79                       | 21.71                              | 21.58                               | 21.42                        | 22.3                      |  |
| 20              | QPSK       | 1       | 49        | 21.57                       | 21.45                              | 21.36                               | 21.12                        |                           |  |
| 20              | QPSK       | 1       | 99        | 21.53                       | 21.43                              | 21.28                               | 21.03                        |                           |  |
| 20              | QPSK       | 50      | 0         | 20.81                       | 20.67                              | 20.59                               | 20.38                        | 21.3                      |  |
| 20              | QPSK       | 50      | 24        | 20.78                       | 20.58                              | 20.53                               | 20.31                        |                           |  |
| 20              | QPSK       | 50      | 50        | 20.63                       | 20.49                              | 20.36                               | 20.11                        |                           |  |
| 20              | QPSK       | 100     | 0         | 20.78                       | 20.56                              | 20.49                               | 20.30                        | 21.3                      |  |
| 20              | 16QAM      | 1       | 0         | 20.92                       | 20.80                              | 20.71                               | 20.54                        |                           |  |
| 20              | 16QAM      | 1       | 49        | 20.65                       | 20.53                              | 20.42                               | 20.22                        |                           |  |
| 20              | 16QAM      | 1       | 99        | 20.69                       | 20.53                              | 20.39                               | 20.15                        | 20.3                      |  |
| 20              | 16QAM      | 50      | 0         | 19.87                       | 19.73                              | 19.62                               | 19.41                        |                           |  |
| 20              | 16QAM      | 50      | 24        | 19.81                       | 19.57                              | 19.54                               | 19.33                        |                           |  |
| 20              | 16QAM      | 50      | 50        | 19.68                       | 19.51                              | 19.39                               | 19.15                        | 19.3                      |  |
| 20              | 16QAM      | 100     | 0         | 19.80                       | 19.58                              | 19.54                               | 19.33                        |                           |  |
| 20              | 64QAM      | 1       | 0         | 19.63                       | 19.57                              | 19.46                               | 19.27                        |                           |  |
| 20              | 64QAM      | 1       | 49        | 19.42                       | 19.31                              | 19.19                               | 18.97                        | 20.3                      |  |
| 20              | 64QAM      | 1       | 99        | 19.39                       | 19.24                              | 19.13                               | 18.85                        |                           |  |
| 20              | 64QAM      | 50      | 0         | 18.87                       | 18.73                              | 18.63                               | 18.41                        |                           |  |
| 20              | 64QAM      | 50      | 24        | 18.82                       | 18.61                              | 18.56                               | 18.33                        | 19.3                      |  |
| 20              | 64QAM      | 50      | 50        | 18.69                       | 18.53                              | 18.40                               | 18.15                        |                           |  |
| 20              | 64QAM      | 100     | 0         | 18.81                       | 18.58                              | 18.55                               | 18.31                        |                           |  |
| Channel         |            |         |           | 55315                       | 55820                              | 56160                               | 56665                        | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 3557.5                      | 3608                               | 3642                                | 3692.5                       |                           |  |
| 15              | QPSK       | 1       | 0         | 21.67                       | 21.60                              | 21.50                               | 21.28                        | 22.3                      |  |
| 15              | QPSK       | 1       | 37        | 21.53                       | 21.46                              | 21.30                               | 21.05                        |                           |  |
| 15              | QPSK       | 1       | 74        | 21.54                       | 21.45                              | 21.31                               | 21.02                        |                           |  |
| 15              | QPSK       | 36      | 0         | 20.81                       | 20.68                              | 20.54                               | 20.32                        | 21.3                      |  |
| 15              | QPSK       | 36      | 20        | 20.74                       | 20.62                              | 20.49                               | 20.24                        |                           |  |
| 15              | QPSK       | 36      | 39        | 20.64                       | 20.49                              | 20.35                               | 20.17                        |                           |  |
| 15              | QPSK       | 75      | 0         | 20.68                       | 20.64                              | 20.51                               | 20.24                        | 21.3                      |  |
| 15              | 16QAM      | 1       | 0         | 20.77                       | 20.76                              | 20.60                               | 20.41                        |                           |  |
| 15              | 16QAM      | 1       | 37        | 20.61                       | 20.51                              | 20.33                               | 20.14                        |                           |  |
| 15              | 16QAM      | 1       | 74        | 20.72                       | 20.60                              | 20.46                               | 20.19                        | 20.3                      |  |
| 15              | 16QAM      | 36      | 0         | 19.77                       | 19.65                              | 19.53                               | 19.29                        |                           |  |
| 15              | 16QAM      | 36      | 20        | 19.74                       | 19.60                              | 19.45                               | 19.20                        |                           |  |
| 15              | 16QAM      | 36      | 39        | 19.63                       | 19.49                              | 19.32                               | 19.14                        | 19.3                      |  |
| 15              | 16QAM      | 75      | 0         | 19.71                       | 19.65                              | 19.52                               | 19.24                        |                           |  |
| 15              | 64QAM      | 1       | 0         | 19.58                       | 19.51                              | 19.39                               | 19.12                        |                           |  |
| 15              | 64QAM      | 1       | 37        | 19.42                       | 19.34                              | 19.19                               | 18.96                        | 20.3                      |  |
| 15              | 64QAM      | 1       | 74        | 19.43                       | 19.29                              | 19.16                               | 18.87                        |                           |  |
| 15              | 64QAM      | 36      | 0         | 18.93                       | 18.70                              | 18.57                               | 18.34                        |                           |  |
| 15              | 64QAM      | 36      | 20        | 18.77                       | 18.63                              | 18.50                               | 18.26                        | 19.3                      |  |
| 15              | 64QAM      | 36      | 39        | 18.66                       | 18.51                              | 18.37                               | 18.17                        |                           |  |
| 15              | 64QAM      | 75      | 0         | 18.72                       | 18.66                              | 18.52                               | 18.26                        |                           |  |
| Channel         |            |         |           | 55290                       | 55815                              | 56165                               | 56690                        | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 3525                        | 3597.5                             | 3642.5                              | 3695                         |                           |  |
| 10              | QPSK       | 1       | 0         | 21.66                       | 21.62                              | 21.49                               | 21.26                        | 22.3                      |  |
| 10              | QPSK       | 1       | 25        | 21.45                       | 21.38                              | 21.26                               | 21.05                        |                           |  |
| 10              | QPSK       | 1       | 49        | 21.51                       | 21.41                              | 21.26                               | 20.95                        |                           |  |
| 10              | QPSK       | 25      | 0         | 20.75                       | 20.64                              | 20.44                               | 20.31                        | 21.3                      |  |
| 10              | QPSK       | 25      | 12        | 20.67                       | 20.52                              | 20.48                               | 20.15                        |                           |  |
| 10              | QPSK       | 25      | 25        | 20.59                       | 20.46                              | 20.33                               | 20.12                        |                           |  |
| 10              | QPSK       | 50      | 0         | 20.63                       | 20.62                              | 20.42                               | 20.14                        | 21.3                      |  |
| 10              | 16QAM      | 1       | 0         | 20.76                       | 20.67                              | 20.51                               | 20.35                        |                           |  |
| 10              | 16QAM      | 1       | 25        | 20.58                       | 20.47                              | 20.33                               | 20.05                        |                           |  |
| 10              | 16QAM      | 1       | 49        | 20.72                       | 20.54                              | 20.42                               | 20.11                        | 20.3                      |  |
| 10              | 16QAM      | 25      | 0         | 19.70                       | 19.56                              | 19.43                               | 19.29                        |                           |  |
| 10              | 16QAM      | 25      | 12        | 19.64                       | 19.57                              | 19.45                               | 19.14                        |                           |  |
| 10              | 16QAM      | 25      | 25        | 19.62                       | 19.45                              | 19.28                               | 19.11                        | 19.3                      |  |
| 10              | 16QAM      | 50      | 0         | 19.64                       | 19.59                              | 19.52                               | 19.20                        |                           |  |
| 10              | 64QAM      | 1       | 0         | 19.50                       | 19.51                              | 19.37                               | 19.12                        |                           |  |
| 10              | 64QAM      | 1       | 25        | 19.42                       | 19.31                              | 19.13                               | 18.95                        | 20.3                      |  |
| 10              | 64QAM      | 1       | 49        | 19.43                       | 19.22                              | 19.11                               | 18.84                        |                           |  |
| 10              | 64QAM      | 25      | 0         | 18.81                       | 18.66                              | 18.47                               | 18.27                        |                           |  |
| 10              | 64QAM      | 25      | 12        | 18.77                       | 18.55                              | 18.41                               | 18.22                        | 19.3                      |  |
| 10              | 64QAM      | 25      | 25        | 18.56                       | 18.49                              | 18.31                               | 18.15                        |                           |  |
| 10              | 64QAM      | 50      | 0         | 18.62                       | 18.63                              | 18.48                               | 18.23                        |                           |  |
| Channel         |            |         |           | 55265                       | 55810                              | 56170                               | 56715                        | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 3524.5                      | 3597                               | 3643                                | 3697.5                       |                           |  |
| 5               | QPSK       | 1       | 0         | 21.65                       | 21.56                              | 21.51                               | 21.57                        | 22.3                      |  |
| 5               | QPSK       | 1       | 12        | 21.61                       | 21.51                              | 21.45                               | 21.52                        |                           |  |
| 5               | QPSK       | 1       | 24        | 21.53                       | 21.43                              | 21.39                               | 21.47                        |                           |  |
| 5               | QPSK       | 12      | 0         | 20.77                       | 20.64                              | 20.64                               | 20.70                        | 21.3                      |  |
| 5               | QPSK       | 12      | 7         | 20.77                       | 20.67                              | 20.58                               | 20.67                        |                           |  |
| 5               | QPSK       | 12      | 13        | 20.70                       | 20.65                              | 20.52                               | 20.62                        |                           |  |
| 5               | QPSK       | 25      | 0         | 20.72                       | 20.63                              | 20.53                               | 20.63                        | 21.3                      |  |
| 5               | 16QAM      | 1       | 0         | 20.73                       | 20.70                              | 20.63                               | 20.69                        |                           |  |
| 5               | 16QAM      | 1       | 12        | 20.82                       | 20.72                              | 20.64                               | 20.74                        |                           |  |
| 5               | 16QAM      | 1       | 24        | 20.73                       | 20.63                              | 20.54                               | 20.62                        | 20.3                      |  |
| 5               | 16QAM      | 12      | 0         | 19.74                       | 19.67                              | 19.62                               | 19.65                        |                           |  |
| 5               | 16QAM      | 12      | 7         | 19.77                       | 19.65                              | 19.58                               | 19.66                        |                           |  |
| 5               | 16QAM      | 12      | 13        | 19.70                       | 19.59                              | 19.50                               | 19.60                        | 19.3                      |  |
| 5               | 16QAM      | 25      | 0         | 19.77                       | 19.70                              | 19.56                               | 19.65                        |                           |  |
| 5               | 64QAM      | 1       | 0         | 19.52                       | 19.47                              | 19.42                               | 19.47                        |                           |  |
| 5               | 64QAM      | 1       | 12        | 19.52                       | 19.41                              | 19.36                               | 19.47                        | 20.3                      |  |
| 5               | 64QAM      | 1       | 24        | 19.54                       | 19.42                              | 19.34                               | 19.37                        |                           |  |
| 5               | 64QAM      | 12      | 0         | 18.79                       | 18.74                              | 18.68                               | 18.74                        |                           |  |
| 5               | 64QAM      | 12      | 7         | 18.83                       | 18.69                              | 18.62                               | 18.70                        | 19.3                      |  |
| 5               | 64QAM      | 12      | 13        | 18.77                       | 18.67                              | 18.55                               | 18.68                        |                           |  |
| 5               | 64QAM      | 25      | 0         | 18.79                       | 18.70                              | 18.58                               | 18.70                        |                           |  |





| Band 38         |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ann 2           |            |         |           |                             |                                |                              |                           |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 37850                       | 38000                          | 38150                        |                           |
| Frequency (MHz) |            |         |           | 2580                        | 2595                           | 2610                         |                           |
| 20              | QPSK       | 1       | 0         | 24.48                       | 24.44                          | 24.35                        | 25.1                      |
| 20              | QPSK       | 1       | 49        | 24.49                       | 24.48                          | 24.36                        |                           |
| 20              | QPSK       | 1       | 99        | 24.48                       | 24.44                          | 24.35                        |                           |
| 20              | QPSK       | 50      | 0         | 24.07                       | 24.06                          | 23.96                        | 24.7                      |
| 20              | QPSK       | 50      | 24        | 24.19                       | 24.09                          | 24.05                        |                           |
| 20              | QPSK       | 50      | 50        | 24.15                       | 24.08                          | 24.02                        |                           |
| 20              | QPSK       | 100     | 0         | 24.16                       | 24.03                          | 24.03                        | 24.7                      |
| 20              | 16QAM      | 1       | 0         | 24.09                       | 24.04                          | 23.97                        |                           |
| 20              | 16QAM      | 1       | 49        | 24.07                       | 24.02                          | 23.95                        |                           |
| 20              | 16QAM      | 1       | 99        | 24.07                       | 24.01                          | 23.93                        | 23.7                      |
| 20              | 16QAM      | 50      | 0         | 23.11                       | 23.10                          | 22.99                        |                           |
| 20              | 16QAM      | 50      | 24        | 23.19                       | 23.07                          | 23.07                        |                           |
| 20              | 16QAM      | 50      | 50        | 23.18                       | 23.13                          | 23.03                        | 22.7                      |
| 20              | 16QAM      | 100     | 0         | 23.18                       | 23.07                          | 23.05                        |                           |
| 20              | 64QAM      | 1       | 0         | 22.80                       | 22.75                          | 22.68                        |                           |
| 20              | 64QAM      | 1       | 49        | 22.82                       | 22.75                          | 22.69                        | 22.7                      |
| 20              | 64QAM      | 1       | 99        | 22.81                       | 22.76                          | 22.64                        |                           |
| 20              | 64QAM      | 50      | 0         | 22.12                       | 22.10                          | 22.00                        |                           |
| 20              | 64QAM      | 50      | 24        | 22.20                       | 22.09                          | 22.09                        | 22.7                      |
| 20              | 64QAM      | 50      | 50        | 22.15                       | 22.14                          | 22.06                        |                           |
| 20              | 64QAM      | 100     | 0         | 22.20                       | 22.08                          | 22.07                        |                           |
| Channel         |            |         |           | 37825                       | 38000                          | 38175                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2577.5                      | 2595                           | 2612.5                       |                           |
| 15              | QPSK       | 1       | 0         | 24.47                       | 24.43                          | 24.26                        | 25.1                      |
| 15              | QPSK       | 1       | 37        | 24.47                       | 24.46                          | 24.35                        |                           |
| 15              | QPSK       | 1       | 74        | 24.43                       | 24.38                          | 24.34                        |                           |
| 15              | QPSK       | 36      | 0         | 24.03                       | 24.00                          | 23.93                        | 24.7                      |
| 15              | QPSK       | 36      | 20        | 24.18                       | 23.96                          | 24.01                        |                           |
| 15              | QPSK       | 36      | 39        | 24.09                       | 24.03                          | 24.00                        |                           |
| 15              | QPSK       | 75      | 0         | 24.11                       | 23.99                          | 23.97                        | 24.7                      |
| 15              | 16QAM      | 1       | 0         | 24.06                       | 24.04                          | 23.93                        |                           |
| 15              | 16QAM      | 1       | 37        | 24.05                       | 24.01                          | 23.88                        |                           |
| 15              | 16QAM      | 1       | 74        | 24.00                       | 24.01                          | 23.91                        | 23.7                      |
| 15              | 16QAM      | 36      | 0         | 23.04                       | 23.00                          | 22.96                        |                           |
| 15              | 16QAM      | 36      | 20        | 23.15                       | 23.03                          | 23.03                        |                           |
| 15              | 16QAM      | 36      | 39        | 23.11                       | 23.12                          | 23.00                        | 23.7                      |
| 15              | 16QAM      | 75      | 0         | 23.15                       | 22.98                          | 23.02                        |                           |
| 15              | 64QAM      | 1       | 0         | 22.79                       | 22.70                          | 22.67                        |                           |
| 15              | 64QAM      | 1       | 37        | 22.75                       | 22.72                          | 22.60                        | 23.7                      |
| 15              | 64QAM      | 1       | 74        | 22.79                       | 22.67                          | 22.61                        |                           |
| 15              | 64QAM      | 36      | 0         | 22.07                       | 22.02                          | 21.91                        |                           |
| 15              | 64QAM      | 36      | 20        | 22.18                       | 22.08                          | 22.08                        | 22.7                      |
| 15              | 64QAM      | 36      | 39        | 22.10                       | 22.05                          | 21.98                        |                           |
| 15              | 64QAM      | 75      | 0         | 22.16                       | 22.04                          | 22.03                        |                           |
| Channel         |            |         |           | 37800                       | 38000                          | 38200                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2575                        | 2595                           | 2615                         |                           |
| 10              | QPSK       | 1       | 0         | 24.46                       | 24.33                          | 24.25                        | 25.1                      |
| 10              | QPSK       | 1       | 25        | 24.42                       | 24.40                          | 24.35                        |                           |
| 10              | QPSK       | 1       | 49        | 24.39                       | 24.39                          | 24.35                        |                           |
| 10              | QPSK       | 25      | 0         | 24.00                       | 24.03                          | 23.92                        | 24.7                      |
| 10              | QPSK       | 25      | 12        | 24.15                       | 23.95                          | 24.03                        |                           |
| 10              | QPSK       | 25      | 25        | 24.05                       | 24.09                          | 24.00                        |                           |
| 10              | QPSK       | 50      | 0         | 24.14                       | 23.96                          | 23.93                        | 24.7                      |
| 10              | 16QAM      | 1       | 0         | 24.09                       | 23.99                          | 23.90                        |                           |
| 10              | 16QAM      | 1       | 25        | 24.03                       | 24.02                          | 23.88                        |                           |
| 10              | 16QAM      | 1       | 49        | 24.06                       | 23.91                          | 23.87                        | 23.7                      |
| 10              | 16QAM      | 25      | 0         | 23.07                       | 23.09                          | 22.93                        |                           |
| 10              | 16QAM      | 25      | 12        | 23.14                       | 23.06                          | 23.02                        |                           |
| 10              | 16QAM      | 25      | 25        | 23.13                       | 23.09                          | 22.94                        | 23.7                      |
| 10              | 16QAM      | 50      | 0         | 23.13                       | 23.02                          | 23.05                        |                           |
| 10              | 64QAM      | 1       | 0         | 22.76                       | 22.75                          | 22.65                        |                           |
| 10              | 64QAM      | 1       | 25        | 22.73                       | 22.74                          | 22.66                        | 23.7                      |
| 10              | 64QAM      | 1       | 49        | 22.79                       | 22.70                          | 22.57                        |                           |
| 10              | 64QAM      | 25      | 0         | 22.06                       | 22.02                          | 21.94                        |                           |
| 10              | 64QAM      | 25      | 12        | 22.19                       | 22.06                          | 22.06                        | 22.7                      |
| 10              | 64QAM      | 25      | 25        | 22.09                       | 22.04                          | 22.04                        |                           |
| 10              | 64QAM      | 50      | 0         | 22.18                       | 22.02                          | 22.01                        |                           |
| Channel         |            |         |           | 37775                       | 38000                          | 38225                        | Tune-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 2572.5                      | 2595                           | 2617.5                       |                           |
| 5               | QPSK       | 1       | 0         | 24.41                       | 24.40                          | 24.28                        | 25.1                      |
| 5               | QPSK       | 1       | 12        | 24.44                       | 24.45                          | 24.32                        |                           |
| 5               | QPSK       | 1       | 24        | 24.38                       | 24.38                          | 24.26                        |                           |
| 5               | QPSK       | 12      | 0         | 24.06                       | 24.03                          | 23.94                        | 24.7                      |
| 5               | QPSK       | 12      | 7         | 24.11                       | 23.95                          | 24.03                        |                           |
| 5               | QPSK       | 12      | 13        | 24.08                       | 24.08                          | 23.99                        |                           |
| 5               | QPSK       | 25      | 0         | 24.12                       | 24.03                          | 24.02                        | 24.7                      |
| 5               | 16QAM      | 1       | 0         | 24.06                       | 23.98                          | 23.91                        |                           |
| 5               | 16QAM      | 1       | 12        | 24.04                       | 23.97                          | 23.91                        |                           |
| 5               | 16QAM      | 1       | 24        | 24.05                       | 23.97                          | 23.89                        | 23.7                      |
| 5               | 16QAM      | 12      | 0         | 23.05                       | 23.08                          | 22.96                        |                           |
| 5               | 16QAM      | 12      | 7         | 23.17                       | 23.05                          | 23.06                        |                           |
| 5               | 16QAM      | 12      | 13        | 23.11                       | 23.11                          | 22.98                        | 23.7                      |
| 5               | 16QAM      | 25      | 0         | 23.12                       | 23.05                          | 22.98                        |                           |
| 5               | 64QAM      | 1       | 0         | 22.79                       | 22.65                          | 22.61                        |                           |
| 5               | 64QAM      | 1       | 12        | 22.73                       | 22.71                          | 22.67                        | 23.7                      |
| 5               | 64QAM      | 1       | 24        | 22.72                       | 22.74                          | 22.56                        |                           |
| 5               | 64QAM      | 12      | 0         | 22.02                       | 22.10                          | 21.96                        |                           |
| 5               | 64QAM      | 12      | 7         | 22.12                       | 22.04                          | 22.02                        | 22.7                      |
| 5               | 64QAM      | 12      | 13        | 22.10                       | 22.10                          | 22.06                        |                           |
| 5               | 64QAM      | 25      | 0         | 22.13                       | 21.98                          | 21.99                        |                           |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ann 2           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 24.23               | 24.38                      | 24.45                  | 24.14                       | 23.88                | 25.1                |  |
| 20              | QPSK       | 1       | 49        | 24.21               | 24.35                      | 24.33                  | 24.40                       | 24.10                |                     |  |
| 20              | QPSK       | 1       | 99        | 24.22               | 24.37                      | 24.43                  | 24.00                       | 24.09                |                     |  |
| 20              | QPSK       | 50      | 0         | 23.79               | 23.94                      | 23.94                  | 24.05                       | 23.90                | 24.7                |  |
| 20              | QPSK       | 50      | 24        | 23.90               | 24.07                      | 24.16                  | 24.15                       | 24.02                |                     |  |
| 20              | QPSK       | 50      | 50        | 23.88               | 24.04                      | 24.01                  | 24.07                       | 24.01                |                     |  |
| 20              | QPSK       | 100     | 0         | 23.89               | 24.05                      | 24.01                  | 24.10                       | 23.97                | 24.7                |  |
| 20              | 16QAM      | 1       | 0         | 23.80               | 23.95                      | 24.05                  | 23.94                       | 23.87                |                     |  |
| 20              | 16QAM      | 1       | 49        | 23.80               | 23.96                      | 23.92                  | 24.23                       | 24.04                |                     |  |
| 20              | 16QAM      | 1       | 99        | 23.84               | 24.03                      | 24.00                  | 23.79                       | 23.87                | 23.7                |  |
| 20              | 16QAM      | 50      | 0         | 22.82               | 22.96                      | 22.97                  | 23.09                       | 22.93                |                     |  |
| 20              | 16QAM      | 50      | 24        | 22.91               | 23.09                      | 23.05                  | 23.22                       | 23.06                |                     |  |
| 20              | 16QAM      | 50      | 50        | 22.90               | 23.07                      | 23.04                  | 23.08                       | 23.02                | 23.7                |  |
| 20              | 16QAM      | 100     | 0         | 22.90               | 23.06                      | 23.02                  | 23.11                       | 22.97                |                     |  |
| 20              | 64QAM      | 1       | 0         | 22.51               | 22.60                      | 22.65                  | 22.60                       | 22.35                |                     |  |
| 20              | 64QAM      | 1       | 49        | 22.51               | 22.71                      | 22.68                  | 22.99                       | 22.79                | 23.7                |  |
| 20              | 64QAM      | 1       | 99        | 22.56               | 22.76                      | 22.68                  | 22.53                       | 22.55                |                     |  |
| 20              | 64QAM      | 50      | 0         | 21.82               | 21.98                      | 21.98                  | 22.09                       | 21.93                |                     |  |
| 20              | 64QAM      | 50      | 24        | 21.93               | 22.07                      | 22.07                  | 22.21                       | 22.06                | 22.7                |  |
| 20              | 64QAM      | 50      | 50        | 21.92               | 22.07                      | 22.05                  | 22.08                       | 22.03                |                     |  |
| 20              | 64QAM      | 100     | 0         | 21.91               | 22.08                      | 22.04                  | 22.14                       | 21.96                |                     |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2548.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 24.16               | 24.23                      | 24.44                  | 24.13                       | 23.82                | 25.1                |  |
| 15              | QPSK       | 1       | 37        | 24.11               | 24.31                      | 24.25                  | 24.32                       | 24.22                |                     |  |
| 15              | QPSK       | 1       | 74        | 24.21               | 24.34                      | 24.40                  | 23.97                       | 24.02                |                     |  |
| 15              | QPSK       | 36      | 0         | 23.75               | 23.94                      | 23.86                  | 24.04                       | 23.85                | 24.7                |  |
| 15              | QPSK       | 36      | 20        | 23.89               | 23.99                      | 23.94                  | 24.16                       | 23.92                |                     |  |
| 15              | QPSK       | 36      | 39        | 23.80               | 24.03                      | 24.00                  | 23.98                       | 23.98                |                     |  |
| 15              | QPSK       | 75      | 0         | 23.89               | 23.99                      | 24.01                  | 24.08                       | 23.95                | 24.7                |  |
| 15              | 16QAM      | 1       | 0         | 23.70               | 23.88                      | 24.03                  | 23.89                       | 23.58                |                     |  |
| 15              | 16QAM      | 1       | 37        | 23.75               | 23.89                      | 23.83                  | 24.14                       | 23.98                |                     |  |
| 15              | 16QAM      | 1       | 74        | 23.79               | 23.98                      | 23.97                  | 23.78                       | 23.81                | 23.7                |  |
| 15              | 16QAM      | 36      | 0         | 22.79               | 22.88                      | 22.89                  | 23.03                       | 22.84                |                     |  |
| 15              | 16QAM      | 36      | 20        | 22.83               | 23.00                      | 23.01                  | 23.15                       | 22.98                |                     |  |
| 15              | 16QAM      | 36      | 39        | 22.90               | 23.06                      | 23.04                  | 23.00                       | 22.95                | 23.7                |  |
| 15              | 16QAM      | 75      | 0         | 22.89               | 23.05                      | 22.92                  | 23.04                       | 22.95                |                     |  |
| 15              | 64QAM      | 1       | 0         | 22.44               | 22.53                      | 22.58                  | 22.54                       | 22.29                |                     |  |
| 15              | 64QAM      | 1       | 37        | 22.41               | 22.68                      | 22.59                  | 22.94                       | 22.72                | 23.7                |  |
| 15              | 64QAM      | 1       | 74        | 22.48               | 22.71                      | 22.59                  | 22.43                       | 22.51                |                     |  |
| 15              | 64QAM      | 36      | 0         | 21.77               | 21.98                      | 21.95                  | 22.07                       | 21.88                |                     |  |
| 15              | 64QAM      | 36      | 20        | 21.88               | 22.01                      | 22.05                  | 22.15                       | 21.96                | 22.7                |  |
| 15              | 64QAM      | 36      | 39        | 21.87               | 22.01                      | 21.95                  | 22.06                       | 22.03                |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.86               | 22.02                      | 21.96                  | 22.10                       | 21.95                |                     |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 24.20               | 24.32                      | 24.38                  | 24.11                       | 23.83                | 25.1                |  |
| 10              | QPSK       | 1       | 25        | 24.15               | 24.28                      | 24.26                  | 24.38                       | 24.22                |                     |  |
| 10              | QPSK       | 1       | 49        | 24.13               | 24.30                      | 24.38                  | 23.91                       | 24.05                |                     |  |
| 10              | QPSK       | 25      | 0         | 23.69               | 23.91                      | 23.90                  | 23.98                       | 23.84                | 24.7                |  |
| 10              | QPSK       | 25      | 12        | 23.81               | 24.01                      | 23.97                  | 24.19                       | 23.93                |                     |  |
| 10              | QPSK       | 25      | 25        | 23.81               | 24.03                      | 23.98                  | 23.97                       | 23.94                |                     |  |
| 10              | QPSK       | 50      | 0         | 23.83               | 23.96                      | 23.96                  | 24.05                       | 23.96                | 24.7                |  |
| 10              | 16QAM      | 1       | 0         | 23.80               | 23.88                      | 23.97                  | 23.86                       | 23.65                |                     |  |
| 10              | 16QAM      | 1       | 25        | 23.74               | 23.95                      | 23.87                  | 24.17                       | 24.02                |                     |  |
| 10              | 16QAM      | 1       | 49        | 23.78               | 23.95                      | 23.94                  | 23.71                       | 23.87                | 23.7                |  |
| 10              | 16QAM      | 25      | 0         | 22.79               | 22.94                      | 22.94                  | 23.09                       | 22.86                |                     |  |
| 10              | 16QAM      | 25      | 12        | 22.90               | 23.07                      | 22.95                  | 23.14                       | 22.96                |                     |  |
| 10              | 16QAM      | 25      | 25        | 22.90               | 23.03                      | 23.00                  | 23.00                       | 23.02                | 23.7                |  |
| 10              | 16QAM      | 50      | 0         | 22.81               | 23.02                      | 22.97                  | 23.05                       | 22.94                |                     |  |
| 10              | 64QAM      | 1       | 0         | 22.43               | 22.59                      | 22.64                  | 22.52                       | 22.35                |                     |  |
| 10              | 64QAM      | 1       | 25        | 22.43               | 22.65                      | 22.68                  | 22.96                       | 22.73                | 23.7                |  |
| 10              | 64QAM      | 1       | 49        | 22.46               | 22.70                      | 22.66                  | 22.52                       | 22.50                |                     |  |
| 10              | 64QAM      | 25      | 0         | 21.73               | 21.88                      | 21.96                  | 22.07                       | 21.88                |                     |  |
| 10              | 64QAM      | 25      | 12        | 21.85               | 22.03                      | 22.01                  | 22.15                       | 21.98                | 22.7                |  |
| 10              | 64QAM      | 25      | 25        | 21.82               | 21.97                      | 22.01                  | 21.98                       | 21.99                |                     |  |
| 10              | 64QAM      | 50      | 0         | 21.87               | 21.99                      | 21.99                  | 22.14                       | 21.90                |                     |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 24.16               | 24.23                      | 24.40                  | 24.14                       | 23.78                | 25.1                |  |
| 5               | QPSK       | 1       | 12        | 24.17               | 24.33                      | 24.30                  | 24.30                       | 24.22                |                     |  |
| 5               | QPSK       | 1       | 24        | 24.13               | 24.31                      | 24.43                  | 23.91                       | 24.05                |                     |  |
| 5               | QPSK       | 12      | 0         | 23.72               | 23.88                      | 23.92                  | 23.99                       | 23.84                | 24.7                |  |
| 5               | QPSK       | 12      | 7         | 23.81               | 24.05                      | 24.00                  | 24.15                       | 24.02                |                     |  |
| 5               | QPSK       | 12      | 13        | 23.82               | 24.01                      | 23.94                  | 23.99                       | 23.99                |                     |  |
| 5               | QPSK       | 25      | 0         | 23.66               | 23.97                      | 23.99                  | 24.05                       | 23.92                | 24.7                |  |
| 5               | 16QAM      | 1       | 0         | 23.71               | 23.90                      | 23.98                  | 23.89                       | 23.61                |                     |  |
| 5               | 16QAM      | 1       | 12        | 23.79               | 23.91                      | 23.86                  | 24.18                       | 24.03                |                     |  |
| 5               | 16QAM      | 1       | 24        | 23.83               | 23.99                      | 23.90                  | 23.74                       | 23.79                | 23.7                |  |
| 5               | 16QAM      | 12      | 0         | 22.79               | 22.89                      | 22.93                  | 23.06                       | 22.86                |                     |  |
| 5               | 16QAM      | 12      | 7         | 22.81               | 22.99                      | 23.01                  | 23.22                       | 23.04                |                     |  |
| 5               | 16QAM      | 12      | 13        | 22.90               | 23.05                      | 23.03                  | 22.99                       | 22.94                | 23.7                |  |
| 5               | 16QAM      | 25      | 0         | 22.81               | 22.96                      | 22.99                  | 23.07                       | 22.95                |                     |  |
| 5               | 64QAM      | 1       | 0         | 22.51               | 22.59                      | 22.65                  | 22.52                       | 22.35                |                     |  |
| 5               | 64QAM      | 1       | 12        | 22.46               | 22.68                      | 22.65                  | 22.93                       | 22.69                | 23.7                |  |
| 5               | 64QAM      | 1       | 24        | 22.54               | 22.71                      | 22.66                  | 22.50                       | 22.47                |                     |  |
| 5               | 64QAM      | 12      | 0         | 21.81               | 21.90                      | 21.89                  | 22.07                       | 21.85                |                     |  |
| 5               | 64QAM      | 12      | 7         | 21.83               | 21.99                      | 22.07                  | 22.16                       | 22.03                | 22.7                |  |
| 5               | 64QAM      | 12      | 13        | 21.92               | 22.05                      | 22.01                  | 22.04                       | 22.02                |                     |  |
| 5               | 64QAM      | 25      | 0         | 21.90               | 22.03                      | 22.01                  | 22.05                       | 21.91                |                     |  |



| Band 41 HPUE    |            |         |           |                       |                              |                          |                               |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|--------------------------|-------------------------------|------------------------|---------------------|
| Ant.2           |            |         |           |                       |                              |                          |                               |                        |                     |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low-Middle Ch. / Freq. | Power Middle Ch. / Freq. | Power High-Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 39750                 | 40185                        | 40620                    | 41055                         | 41490                  |                     |
| Frequency (MHz) |            |         |           | 2506                  | 2549.5                       | 2593                     | 2636.5                        | 2680                   |                     |
| 20              | QPSK       | 1       | 0         | 25.76                 | 25.92                        | 26.00                    | 25.74                         | 25.50                  | 26.9                |
| 20              | QPSK       | 1       | 49        | 25.76                 | 25.92                        | 25.89                    | 25.59                         | 25.81                  |                     |
| 20              | QPSK       | 1       | 99        | 25.83                 | 26.00                        | 26.01                    | 25.58                         | 25.70                  |                     |
| 20              | QPSK       | 50      | 0         | 25.56                 | 25.73                        | 25.73                    | 25.96                         | 25.82                  |                     |
| 20              | QPSK       | 50      | 24        | 25.67                 | 25.84                        | 25.98                    | 25.94                         | 25.95                  | 26.4                |
| 20              | QPSK       | 50      | 50        | 25.66                 | 25.83                        | 25.81                    | 25.96                         | 25.88                  |                     |
| 20              | QPSK       | 100     | 0         | 25.68                 | 25.84                        | 25.81                    | 26.01                         | 25.85                  |                     |
| 20              | 16QAM      | 1       | 0         | 25.72                 | 25.86                        | 26.00                    | 25.93                         | 25.69                  |                     |
| 20              | 16QAM      | 1       | 49        | 25.74                 | 25.93                        | 25.91                    | 26.23                         | 26.92                  | 26.4                |
| 20              | 16QAM      | 1       | 99        | 25.72                 | 25.99                        | 25.93                    | 25.81                         | 25.86                  |                     |
| 20              | 16QAM      | 50      | 0         | 24.61                 | 24.75                        | 24.78                    | 24.99                         | 24.83                  |                     |
| 20              | 16QAM      | 50      | 24        | 24.71                 | 24.86                        | 24.85                    | 25.14                         | 24.96                  |                     |
| 20              | 16QAM      | 50      | 50        | 24.67                 | 24.87                        | 24.83                    | 24.99                         | 24.94                  | 25.4                |
| 20              | 16QAM      | 100     | 0         | 24.66                 | 24.86                        | 24.84                    | 25.03                         | 24.90                  |                     |
| 20              | 64QAM      | 1       | 0         | 24.58                 | 24.94                        | 24.66                    | 24.76                         | 24.54                  |                     |
| 20              | 64QAM      | 1       | 49        | 24.62                 | 24.74                        | 24.71                    | 25.09                         | 24.58                  |                     |
| 20              | 64QAM      | 1       | 99        | 24.62                 | 24.82                        | 24.79                    | 24.66                         | 23.81                  | 24.4                |
| 20              | 64QAM      | 50      | 0         | 23.59                 | 23.77                        | 23.75                    | 23.99                         | 23.58                  |                     |
| 20              | 64QAM      | 50      | 24        | 23.69                 | 23.86                        | 23.84                    | 24.15                         | 23.40                  |                     |
| 20              | 64QAM      | 50      | 50        | 23.68                 | 23.87                        | 23.83                    | 24.01                         | 23.13                  |                     |
| 20              | 64QAM      | 100     | 0         | 23.70                 | 23.86                        | 23.83                    | 24.05                         | 23.28                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 39725                 | 40173                        | 40620                    | 41068                         | 41515                  |                     |
| Frequency (MHz) |            |         |           | 2503.5                | 2546.3                       | 2593                     | 2637.8                        | 2682.5                 |                     |
| 15              | QPSK       | 1       | 0         | 25.71                 | 25.90                        | 26.00                    | 25.68                         | 25.51                  | 26.9                |
| 15              | QPSK       | 1       | 37        | 25.67                 | 25.89                        | 25.82                    | 25.91                         | 25.81                  |                     |
| 15              | QPSK       | 1       | 74        | 25.82                 | 25.92                        | 25.92                    | 25.58                         | 25.69                  |                     |
| 15              | QPSK       | 36      | 0         | 25.53                 | 25.67                        | 25.70                    | 25.86                         | 25.78                  |                     |
| 15              | QPSK       | 36      | 20        | 25.67                 | 25.84                        | 25.95                    | 25.91                         | 25.90                  | 26.4                |
| 15              | QPSK       | 36      | 39        | 25.62                 | 25.81                        | 25.71                    | 25.86                         | 25.79                  |                     |
| 15              | QPSK       | 75      | 0         | 25.60                 | 25.82                        | 25.78                    | 25.97                         | 25.84                  |                     |
| 15              | 16QAM      | 1       | 0         | 25.63                 | 25.85                        | 25.87                    | 25.92                         | 25.64                  |                     |
| 15              | 16QAM      | 1       | 37        | 25.74                 | 25.89                        | 25.85                    | 26.17                         | 26.00                  | 26.4                |
| 15              | 16QAM      | 1       | 74        | 25.67                 | 25.96                        | 25.87                    | 25.77                         | 25.84                  |                     |
| 15              | 16QAM      | 36      | 0         | 24.54                 | 24.73                        | 24.75                    | 24.93                         | 24.75                  |                     |
| 15              | 16QAM      | 36      | 20        | 24.71                 | 24.77                        | 24.82                    | 25.13                         | 24.93                  |                     |
| 15              | 16QAM      | 36      | 39        | 24.65                 | 24.86                        | 24.77                    | 24.92                         | 24.87                  | 25.4                |
| 15              | 16QAM      | 75      | 0         | 24.61                 | 24.83                        | 24.82                    | 25.00                         | 24.89                  |                     |
| 15              | 64QAM      | 1       | 0         | 24.50                 | 24.59                        | 24.56                    | 24.73                         | 24.46                  |                     |
| 15              | 64QAM      | 1       | 37        | 24.64                 | 24.66                        | 24.67                    | 25.09                         | 24.50                  |                     |
| 15              | 64QAM      | 1       | 74        | 24.54                 | 24.75                        | 24.76                    | 24.59                         | 23.73                  | 24.4                |
| 15              | 64QAM      | 36      | 0         | 23.51                 | 23.70                        | 23.72                    | 23.91                         | 23.46                  |                     |
| 15              | 64QAM      | 36      | 20        | 23.85                 | 23.82                        | 23.79                    | 24.12                         | 23.40                  |                     |
| 15              | 64QAM      | 36      | 39        | 23.60                 | 23.80                        | 23.75                    | 23.95                         | 23.12                  |                     |
| 15              | 64QAM      | 75      | 0         | 23.70                 | 23.84                        | 23.74                    | 23.98                         | 23.22                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 39700                 | 40160                        | 40620                    | 41080                         | 41540                  |                     |
| Frequency (MHz) |            |         |           | 2501                  | 2547                         | 2593                     | 2639                          | 2685                   |                     |
| 10              | QPSK       | 1       | 0         | 25.75                 | 25.89                        | 25.94                    | 25.66                         | 25.52                  | 26.9                |
| 10              | QPSK       | 1       | 25        | 25.72                 | 25.84                        | 25.79                    | 25.94                         | 25.76                  |                     |
| 10              | QPSK       | 1       | 49        | 25.77                 | 25.91                        | 26.01                    | 25.49                         | 25.70                  |                     |
| 10              | QPSK       | 25      | 0         | 25.46                 | 25.67                        | 25.72                    | 25.91                         | 25.74                  |                     |
| 10              | QPSK       | 25      | 12        | 25.59                 | 25.81                        | 25.89                    | 25.86                         | 25.85                  | 26.4                |
| 10              | QPSK       | 25      | 25        | 25.61                 | 25.77                        | 25.76                    | 25.90                         | 25.79                  |                     |
| 10              | QPSK       | 50      | 0         | 25.60                 | 25.82                        | 25.71                    | 25.91                         | 25.76                  |                     |
| 10              | 16QAM      | 1       | 0         | 25.62                 | 25.80                        | 25.94                    | 25.85                         | 25.61                  |                     |
| 10              | 16QAM      | 1       | 25        | 25.73                 | 25.92                        | 25.91                    | 26.15                         | 25.97                  | 26.4                |
| 10              | 16QAM      | 1       | 49        | 25.71                 | 25.93                        | 25.84                    | 25.75                         | 25.78                  |                     |
| 10              | 16QAM      | 25      | 0         | 24.51                 | 24.73                        | 24.72                    | 24.96                         | 24.82                  |                     |
| 10              | 16QAM      | 25      | 12        | 24.63                 | 24.84                        | 24.82                    | 25.04                         | 24.86                  |                     |
| 10              | 16QAM      | 25      | 25        | 24.64                 | 24.77                        | 24.79                    | 24.89                         | 24.84                  | 25.4                |
| 10              | 16QAM      | 50      | 0         | 24.60                 | 24.86                        | 24.74                    | 24.96                         | 24.82                  |                     |
| 10              | 64QAM      | 1       | 0         | 24.65                 | 24.60                        | 24.56                    | 24.66                         | 24.49                  |                     |
| 10              | 64QAM      | 1       | 25        | 24.56                 | 24.74                        | 24.69                    | 25.08                         | 24.50                  |                     |
| 10              | 64QAM      | 1       | 49        | 24.55                 | 24.79                        | 24.71                    | 24.61                         | 23.76                  | 24.4                |
| 10              | 64QAM      | 25      | 0         | 23.59                 | 23.73                        | 23.75                    | 23.97                         | 23.51                  |                     |
| 10              | 64QAM      | 25      | 12        | 23.59                 | 23.86                        | 23.84                    | 24.13                         | 23.39                  |                     |
| 10              | 64QAM      | 25      | 25        | 23.64                 | 23.79                        | 23.80                    | 23.94                         | 23.12                  |                     |
| 10              | 64QAM      | 50      | 0         | 23.68                 | 23.83                        | 23.82                    | 24.02                         | 23.21                  | Tune-up limit (dBm) |
| Channel         |            |         |           | 39675                 | 40148                        | 40620                    | 41093                         | 41565                  |                     |
| Frequency (MHz) |            |         |           | 2498.5                | 2545.8                       | 2593                     | 2640.3                        | 2687.5                 |                     |
| 5               | QPSK       | 1       | 0         | 25.69                 | 25.88                        | 25.92                    | 25.70                         | 25.53                  | 26.9                |
| 5               | QPSK       | 1       | 12        | 25.68                 | 25.84                        | 25.82                    | 25.93                         | 25.80                  |                     |
| 5               | QPSK       | 1       | 24        | 25.83                 | 25.91                        | 26.01                    | 25.53                         | 25.60                  |                     |
| 5               | QPSK       | 12      | 0         | 25.54                 | 25.65                        | 25.64                    | 25.95                         | 25.72                  |                     |
| 5               | QPSK       | 12      | 7         | 25.60                 | 25.82                        | 25.97                    | 25.94                         | 25.88                  | 26.4                |
| 5               | QPSK       | 12      | 13        | 25.59                 | 25.75                        | 25.75                    | 25.92                         | 25.87                  |                     |
| 5               | QPSK       | 25      | 0         | 25.60                 | 25.76                        | 25.73                    | 25.92                         | 25.82                  |                     |
| 5               | 16QAM      | 1       | 0         | 25.63                 | 25.81                        | 25.92                    | 25.84                         | 25.69                  |                     |
| 5               | 16QAM      | 1       | 12        | 25.64                 | 25.85                        | 25.83                    | 26.15                         | 25.97                  | 26.4                |
| 5               | 16QAM      | 1       | 24        | 25.68                 | 25.95                        | 25.84                    | 25.71                         | 25.81                  |                     |
| 5               | 16QAM      | 12      | 0         | 24.57                 | 24.65                        | 24.72                    | 24.99                         | 24.74                  |                     |
| 5               | 16QAM      | 12      | 7         | 24.69                 | 24.77                        | 24.83                    | 25.12                         | 24.87                  |                     |
| 5               | 16QAM      | 12      | 13        | 24.58                 | 24.82                        | 24.81                    | 24.93                         | 24.87                  | 25.4                |
| 5               | 16QAM      | 25      | 0         | 24.63                 | 24.78                        | 24.82                    | 24.97                         | 24.81                  |                     |
| 5               | 64QAM      | 1       | 0         | 24.52                 | 24.60                        | 24.62                    | 24.66                         | 24.47                  |                     |
| 5               | 64QAM      | 1       | 12        | 24.57                 | 24.67                        | 24.64                    | 25.01                         | 24.53                  |                     |
| 5               | 64QAM      | 1       | 24        | 24.59                 | 24.76                        | 24.74                    | 24.56                         | 23.77                  | 24.4                |
| 5               | 64QAM      | 12      | 0         | 23.52                 | 23.74                        | 23.71                    | 23.90                         | 23.56                  |                     |
| 5               | 64QAM      | 12      | 7         | 23.62                 | 23.85                        | 23.81                    | 24.08                         | 23.40                  |                     |
| 5               | 64QAM      | 12      | 13        | 23.64                 | 23.83                        | 23.76                    | 23.95                         | 23.12                  |                     |
| 5               | 64QAM      | 25      | 0         | 23.60                 | 23.85                        | 23.80                    | 23.96                         | 23.16                  |                     |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|--|
| Ant 7           |            |         |           |                       |                              |                               |                        |                     |  |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56150                         | 56640                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |  |
| 20              | QPSK       | 1       | 0         | 22.80                 | 22.72                        | 22.60                         | 22.45                  | 23.8                |  |  |
| 20              | QPSK       | 1       | 49        | 22.59                 | 22.48                        | 22.31                         | 22.10                  |                     |  |  |
| 20              | QPSK       | 1       | 99        | 22.55                 | 22.41                        | 22.25                         | 22.04                  |                     |  |  |
| 20              | QPSK       | 50      | 0         | 22.80                 | 22.73                        | 22.58                         | 22.33                  |                     |  |  |
| 20              | QPSK       | 50      | 24        | 22.77                 | 22.67                        | 22.50                         | 22.25                  | 23.3                |  |  |
| 20              | QPSK       | 50      | 50        | 22.61                 | 22.48                        | 22.34                         | 22.09                  |                     |  |  |
| 20              | QPSK       | 100     | 0         | 22.76                 | 22.57                        | 22.51                         | 22.24                  |                     |  |  |
| 20              | 16QAM      | 1       | 0         | 22.92                 | 22.81                        | 22.67                         | 22.43                  |                     |  |  |
| 20              | 16QAM      | 1       | 49        | 22.68                 | 22.55                        | 22.37                         | 22.15                  | 23.3                |  |  |
| 20              | 16QAM      | 1       | 99        | 22.66                 | 22.50                        | 22.35                         | 22.10                  |                     |  |  |
| 20              | 16QAM      | 50      | 0         | 22.13                 | 22.04                        | 21.89                         | 21.65                  |                     |  |  |
| 20              | 16QAM      | 50      | 24        | 22.09                 | 21.89                        | 21.80                         | 21.59                  |                     |  |  |
| 20              | 16QAM      | 50      | 50        | 21.93                 | 21.82                        | 21.66                         | 21.41                  | 22.3                |  |  |
| 20              | 16QAM      | 100     | 0         | 22.08                 | 21.89                        | 21.80                         | 21.55                  |                     |  |  |
| 20              | 64QAM      | 1       | 0         | 21.92                 | 21.85                        | 21.72                         | 21.46                  |                     |  |  |
| 20              | 64QAM      | 1       | 49        | 21.76                 | 21.62                        | 21.46                         | 21.32                  |                     |  |  |
| 20              | 64QAM      | 1       | 99        | 21.68                 | 21.52                        | 21.38                         | 21.31                  | 21.3                |  |  |
| 20              | 64QAM      | 50      | 0         | 21.15                 | 21.06                        | 20.90                         | 20.66                  |                     |  |  |
| 20              | 64QAM      | 50      | 24        | 21.10                 | 20.91                        | 20.83                         | 20.57                  |                     |  |  |
| 20              | 64QAM      | 50      | 50        | 20.95                 | 20.82                        | 20.66                         | 20.42                  |                     |  |  |
| 20              | 64QAM      | 100     | 0         | 21.09                 | 20.88                        | 20.82                         | 20.56                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |  |
| 15              | QPSK       | 1       | 0         | 22.72                 | 22.59                        | 22.50                         | 22.21                  | 23.8                |  |  |
| 15              | QPSK       | 1       | 37        | 22.57                 | 22.47                        | 22.29                         | 22.03                  |                     |  |  |
| 15              | QPSK       | 1       | 74        | 22.57                 | 22.46                        | 22.24                         | 22.01                  |                     |  |  |
| 15              | QPSK       | 36      | 0         | 22.80                 | 22.70                        | 22.52                         | 22.29                  |                     |  |  |
| 15              | QPSK       | 36      | 20        | 22.76                 | 22.66                        | 22.48                         | 22.20                  | 23.3                |  |  |
| 15              | QPSK       | 36      | 39        | 22.62                 | 22.51                        | 22.33                         | 22.15                  |                     |  |  |
| 15              | QPSK       | 75      | 0         | 22.66                 | 22.66                        | 22.47                         | 22.24                  |                     |  |  |
| 15              | 16QAM      | 1       | 0         | 22.86                 | 22.76                        | 22.61                         | 22.32                  |                     |  |  |
| 15              | 16QAM      | 1       | 37        | 22.61                 | 22.47                        | 22.30                         | 22.05                  | 23.3                |  |  |
| 15              | 16QAM      | 1       | 74        | 22.69                 | 22.59                        | 22.40                         | 22.16                  |                     |  |  |
| 15              | 16QAM      | 36      | 0         | 22.05                 | 21.95                        | 21.80                         | 21.54                  |                     |  |  |
| 15              | 16QAM      | 36      | 20        | 21.99                 | 21.90                        | 21.72                         | 21.47                  |                     |  |  |
| 15              | 16QAM      | 36      | 39        | 21.87                 | 21.77                        | 21.59                         | 21.44                  | 22.3                |  |  |
| 15              | 16QAM      | 75      | 0         | 21.97                 | 21.88                        | 21.79                         | 21.53                  |                     |  |  |
| 15              | 64QAM      | 1       | 0         | 21.86                 | 21.81                        | 21.63                         | 21.36                  |                     |  |  |
| 15              | 64QAM      | 1       | 37        | 21.74                 | 21.64                        | 21.42                         | 21.19                  |                     |  |  |
| 15              | 64QAM      | 1       | 74        | 21.71                 | 21.59                        | 21.38                         | 21.15                  | 21.3                |  |  |
| 15              | 64QAM      | 36      | 0         | 21.12                 | 21.02                        | 20.85                         | 20.59                  |                     |  |  |
| 15              | 64QAM      | 36      | 20        | 21.05                 | 20.95                        | 20.77                         | 20.51                  |                     |  |  |
| 15              | 64QAM      | 36      | 39        | 20.93                 | 20.82                        | 20.63                         | 20.47                  |                     |  |  |
| 15              | 64QAM      | 75      | 0         | 20.99                 | 20.94                        | 20.77                         | 20.52                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3695                   |                     |  |  |
| 10              | QPSK       | 1       | 0         | 22.63                 | 22.55                        | 22.49                         | 22.16                  | 23.8                |  |  |
| 10              | QPSK       | 1       | 25        | 22.49                 | 22.44                        | 22.20                         | 21.94                  |                     |  |  |
| 10              | QPSK       | 1       | 49        | 22.57                 | 22.36                        | 22.23                         | 21.91                  |                     |  |  |
| 10              | QPSK       | 25      | 0         | 22.76                 | 22.69                        | 22.46                         | 22.29                  |                     |  |  |
| 10              | QPSK       | 25      | 12        | 22.72                 | 22.64                        | 22.41                         | 22.16                  | 23.3                |  |  |
| 10              | QPSK       | 25      | 25        | 22.58                 | 22.48                        | 22.28                         | 22.06                  |                     |  |  |
| 10              | QPSK       | 50      | 0         | 22.56                 | 22.61                        | 22.43                         | 22.22                  |                     |  |  |
| 10              | 16QAM      | 1       | 0         | 22.76                 | 22.68                        | 22.60                         | 22.27                  |                     |  |  |
| 10              | 16QAM      | 1       | 25        | 22.60                 | 22.38                        | 22.22                         | 21.98                  | 23.3                |  |  |
| 10              | 16QAM      | 1       | 49        | 22.61                 | 22.55                        | 22.34                         | 22.09                  |                     |  |  |
| 10              | 16QAM      | 25      | 0         | 22.00                 | 21.90                        | 21.71                         | 21.48                  |                     |  |  |
| 10              | 16QAM      | 25      | 12        | 21.91                 | 21.81                        | 21.70                         | 21.42                  |                     |  |  |
| 10              | 16QAM      | 25      | 25        | 21.79                 | 21.75                        | 21.55                         | 21.43                  | 22.3                |  |  |
| 10              | 16QAM      | 50      | 0         | 21.87                 | 21.91                        | 21.71                         | 21.47                  |                     |  |  |
| 10              | 64QAM      | 1       | 0         | 21.85                 | 21.80                        | 21.55                         | 21.31                  |                     |  |  |
| 10              | 64QAM      | 1       | 25        | 21.73                 | 21.59                        | 21.38                         | 21.10                  |                     |  |  |
| 10              | 64QAM      | 1       | 49        | 21.66                 | 21.51                        | 21.30                         | 21.12                  | 21.3                |  |  |
| 10              | 64QAM      | 25      | 0         | 21.07                 | 20.96                        | 20.75                         | 20.52                  |                     |  |  |
| 10              | 64QAM      | 25      | 12        | 20.95                 | 20.87                        | 20.74                         | 20.44                  |                     |  |  |
| 10              | 64QAM      | 25      | 25        | 20.84                 | 20.74                        | 20.60                         | 20.41                  |                     |  |  |
| 10              | 64QAM      | 50      | 0         | 20.93                 | 20.85                        | 20.68                         | 20.43                  | Tune-up limit (dBm) |  |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  |                     |  |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3697.5                 |                     |  |  |
| 5               | QPSK       | 1       | 0         | 22.66                 | 22.54                        | 22.50                         | 22.55                  | 23.8                |  |  |
| 5               | QPSK       | 1       | 12        | 22.63                 | 22.50                        | 22.44                         | 22.53                  |                     |  |  |
| 5               | QPSK       | 1       | 24        | 22.57                 | 22.51                        | 22.36                         | 22.48                  |                     |  |  |
| 5               | QPSK       | 12      | 0         | 22.78                 | 22.62                        | 22.60                         | 22.69                  |                     |  |  |
| 5               | QPSK       | 12      | 7         | 22.77                 | 22.65                        | 22.56                         | 22.67                  | 23.3                |  |  |
| 5               | QPSK       | 12      | 13        | 22.75                 | 22.63                        | 22.53                         | 22.63                  |                     |  |  |
| 5               | QPSK       | 25      | 0         | 22.72                 | 22.64                        | 22.51                         | 22.62                  |                     |  |  |
| 5               | 16QAM      | 1       | 0         | 22.77                 | 22.70                        | 22.61                         | 22.73                  |                     |  |  |
| 5               | 16QAM      | 1       | 12        | 22.84                 | 22.71                        | 22.67                         | 22.78                  | 23.3                |  |  |
| 5               | 16QAM      | 1       | 24        | 22.76                 | 22.68                        | 22.53                         | 22.61                  |                     |  |  |
| 5               | 16QAM      | 12      | 0         | 22.04                 | 21.91                        | 21.89                         | 21.95                  |                     |  |  |
| 5               | 16QAM      | 12      | 7         | 22.08                 | 21.93                        | 21.81                         | 21.95                  |                     |  |  |
| 5               | 16QAM      | 12      | 13        | 22.04                 | 21.92                        | 21.75                         | 21.90                  | 22.3                |  |  |
| 5               | 16QAM      | 25      | 0         | 22.06                 | 21.97                        | 21.84                         | 21.95                  |                     |  |  |
| 5               | 64QAM      | 1       | 0         | 21.87                 | 21.75                        | 21.67                         | 21.79                  |                     |  |  |
| 5               | 64QAM      | 1       | 12        | 21.82                 | 21.72                        | 21.67                         | 21.76                  |                     |  |  |
| 5               | 64QAM      | 1       | 24        | 21.85                 | 21.74                        | 21.58                         | 21.71                  | 21.3                |  |  |
| 5               | 64QAM      | 12      | 0         | 21.08                 | 20.97                        | 20.94                         | 21.00                  |                     |  |  |
| 5               | 64QAM      | 12      | 7         | 21.11                 | 21.00                        | 20.88                         | 21.01                  |                     |  |  |
| 5               | 64QAM      | 12      | 13        | 21.10                 | 20.99                        | 20.84                         | 20.92                  |                     |  |  |
| 5               | 64QAM      | 25      | 0         | 21.12                 | 21.01                        | 20.89                         | 20.97                  |                     |  |  |



| Band 38         |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| Ann 0           |            |         |           |                     |                        |                      |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 37850               | 38000                  | 38150                |                     |
| Frequency (MHz) |            |         |           | 2580                | 2595                   | 2610                 |                     |
| 20              | QPSK       | 1       | 0         | 21.20               | 21.19                  | 21.08                | 22.4                |
| 20              | QPSK       | 1       | 49        | 21.22               | 21.22                  | 21.12                |                     |
| 20              | QPSK       | 1       | 99        | 21.21               | 21.20                  | 21.07                |                     |
| 20              | QPSK       | 50      | 0         | 21.28               | 21.29                  | 21.22                |                     |
| 20              | QPSK       | 50      | 24        | 21.40               | 21.30                  | 21.25                |                     |
| 20              | QPSK       | 50      | 50        | 21.36               | 21.34                  | 21.23                | 22.4                |
| 20              | QPSK       | 100     | 0         | 21.37               | 21.30                  | 21.27                |                     |
| 20              | 16QAM      | 1       | 0         | 21.34               | 21.31                  | 21.23                |                     |
| 20              | 16QAM      | 1       | 49        | 21.33               | 21.34                  | 21.22                |                     |
| 20              | 16QAM      | 1       | 99        | 21.37               | 21.32                  | 21.19                |                     |
| 20              | 16QAM      | 50      | 0         | 21.33               | 21.34                  | 21.24                | 22.4                |
| 20              | 16QAM      | 50      | 24        | 21.45               | 21.34                  | 21.30                |                     |
| 20              | 16QAM      | 50      | 50        | 21.41               | 21.40                  | 21.28                |                     |
| 20              | 16QAM      | 100     | 0         | 21.42               | 21.32                  | 21.30                |                     |
| 20              | 64QAM      | 1       | 0         | 21.04               | 21.02                  | 20.91                |                     |
| 20              | 64QAM      | 1       | 49        | 21.05               | 21.06                  | 20.98                | 22.4                |
| 20              | 64QAM      | 1       | 99        | 21.07               | 21.09                  | 20.90                |                     |
| 20              | 64QAM      | 50      | 0         | 21.35               | 21.34                  | 21.25                |                     |
| 20              | 64QAM      | 50      | 24        | 21.41               | 21.35                  | 21.32                |                     |
| 20              | 64QAM      | 50      | 50        | 21.42               | 21.38                  | 21.28                |                     |
| 20              | 64QAM      | 100     | 0         | 21.40               | 21.34                  | 21.30                |                     |
| Channel         |            |         |           | 37825               | 38000                  | 38175                |                     |
| Frequency (MHz) |            |         |           | 2577.5              | 2595                   | 2612.5               | Tune-up limit (dBm) |
| 15              | QPSK       | 1       | 0         | 21.17               | 21.17                  | 21.06                | 22.4                |
| 15              | QPSK       | 1       | 37        | 21.17               | 21.15                  | 21.04                |                     |
| 15              | QPSK       | 1       | 74        | 21.17               | 21.19                  | 21.03                |                     |
| 15              | QPSK       | 36      | 0         | 21.38               | 21.29                  | 21.17                |                     |
| 15              | QPSK       | 36      | 20        | 21.34               | 21.27                  | 21.15                |                     |
| 15              | QPSK       | 36      | 39        | 21.36               | 21.34                  | 21.22                | 22.4                |
| 15              | QPSK       | 75      | 0         | 21.36               | 21.27                  | 21.15                |                     |
| 15              | 16QAM      | 1       | 0         | 21.34               | 21.33                  | 21.25                |                     |
| 15              | 16QAM      | 1       | 37        | 21.26               | 21.25                  | 21.18                |                     |
| 15              | 16QAM      | 1       | 74        | 21.37               | 21.36                  | 21.21                |                     |
| 15              | 16QAM      | 36      | 0         | 21.37               | 21.26                  | 21.13                | 22.4                |
| 15              | 16QAM      | 36      | 20        | 21.34               | 21.25                  | 21.12                |                     |
| 15              | 16QAM      | 36      | 39        | 21.36               | 21.29                  | 21.20                |                     |
| 15              | 16QAM      | 75      | 0         | 21.37               | 21.28                  | 21.21                |                     |
| 15              | 64QAM      | 1       | 0         | 20.97               | 20.98                  | 20.89                |                     |
| 15              | 64QAM      | 1       | 37        | 21.06               | 21.04                  | 20.93                | 22.4                |
| 15              | 64QAM      | 1       | 74        | 21.08               | 21.06                  | 20.92                |                     |
| 15              | 64QAM      | 36      | 0         | 21.42               | 21.32                  | 21.20                |                     |
| 15              | 64QAM      | 36      | 20        | 21.38               | 21.26                  | 21.14                |                     |
| 15              | 64QAM      | 36      | 39        | 21.38               | 21.35                  | 21.24                |                     |
| 15              | 64QAM      | 75      | 0         | 21.38               | 21.30                  | 21.20                |                     |
| Channel         |            |         |           | 37800               | 38000                  | 38200                |                     |
| Frequency (MHz) |            |         |           | 2575                | 2595                   | 2615                 | Tune-up limit (dBm) |
| 10              | QPSK       | 1       | 0         | 21.08               | 21.08                  | 21.00                | 22.4                |
| 10              | QPSK       | 1       | 25        | 21.12               | 21.13                  | 20.94                |                     |
| 10              | QPSK       | 1       | 49        | 21.17               | 21.10                  | 21.01                |                     |
| 10              | QPSK       | 25      | 0         | 21.31               | 21.28                  | 21.17                |                     |
| 10              | QPSK       | 25      | 12        | 21.28               | 21.21                  | 21.08                |                     |
| 10              | QPSK       | 25      | 25        | 21.35               | 21.31                  | 21.15                | 22.4                |
| 10              | QPSK       | 50      | 0         | 21.29               | 21.17                  | 21.13                |                     |
| 10              | 16QAM      | 1       | 0         | 21.29               | 21.28                  | 21.20                |                     |
| 10              | 16QAM      | 1       | 25        | 21.24               | 21.23                  | 21.10                |                     |
| 10              | 16QAM      | 1       | 49        | 21.35               | 21.34                  | 21.12                |                     |
| 10              | 16QAM      | 25      | 0         | 21.32               | 21.20                  | 21.13                | 22.4                |
| 10              | 16QAM      | 25      | 12        | 21.27               | 21.24                  | 21.07                |                     |
| 10              | 16QAM      | 25      | 25        | 21.27               | 21.29                  | 21.10                |                     |
| 10              | 16QAM      | 50      | 0         | 21.34               | 21.27                  | 21.15                |                     |
| 10              | 64QAM      | 1       | 0         | 20.97               | 20.92                  | 20.80                |                     |
| 10              | 64QAM      | 1       | 25        | 21.04               | 20.97                  | 20.83                | 22.4                |
| 10              | 64QAM      | 1       | 49        | 21.02               | 20.96                  | 20.86                |                     |
| 10              | 64QAM      | 25      | 0         | 21.37               | 21.24                  | 21.11                |                     |
| 10              | 64QAM      | 25      | 12        | 21.33               | 21.16                  | 21.09                |                     |
| 10              | 64QAM      | 25      | 25        | 21.37               | 21.26                  | 21.22                |                     |
| 10              | 64QAM      | 50      | 0         | 21.28               | 21.27                  | 21.15                |                     |
| Channel         |            |         |           | 37775               | 38000                  | 38225                |                     |
| Frequency (MHz) |            |         |           | 2572.5              | 2595                   | 2617.5               | Tune-up limit (dBm) |
| 5               | QPSK       | 1       | 0         | 21.11               | 21.17                  | 20.98                | 22.4                |
| 5               | QPSK       | 1       | 12        | 21.20               | 21.21                  | 21.05                |                     |
| 5               | QPSK       | 1       | 24        | 21.16               | 21.17                  | 21.07                |                     |
| 5               | QPSK       | 12      | 0         | 21.24               | 21.24                  | 21.22                |                     |
| 5               | QPSK       | 12      | 7         | 21.37               | 21.22                  | 21.17                |                     |
| 5               | QPSK       | 12      | 13        | 21.31               | 21.27                  | 21.23                | 22.4                |
| 5               | QPSK       | 25      | 0         | 21.27               | 21.27                  | 21.24                |                     |
| 5               | 16QAM      | 1       | 0         | 21.31               | 21.27                  | 21.13                |                     |
| 5               | 16QAM      | 1       | 12        | 21.24               | 21.24                  | 21.20                |                     |
| 5               | 16QAM      | 1       | 24        | 21.32               | 21.22                  | 21.11                |                     |
| 5               | 16QAM      | 12      | 0         | 21.32               | 21.32                  | 21.17                | 22.4                |
| 5               | 16QAM      | 12      | 7         | 21.24               | 21.32                  | 21.30                |                     |
| 5               | 16QAM      | 12      | 13        | 21.34               | 21.33                  | 21.26                |                     |
| 5               | 16QAM      | 25      | 0         | 21.32               | 21.23                  | 21.20                |                     |
| 5               | 64QAM      | 1       | 0         | 20.99               | 20.94                  | 20.88                |                     |
| 5               | 64QAM      | 1       | 12        | 20.96               | 21.06                  | 20.92                | 22.4                |
| 5               | 64QAM      | 1       | 24        | 21.02               | 21.07                  | 20.81                |                     |
| 5               | 64QAM      | 12      | 0         | 21.33               | 21.34                  | 21.25                |                     |
| 5               | 64QAM      | 12      | 7         | 21.38               | 21.34                  | 21.22                |                     |
| 5               | 64QAM      | 12      | 13        | 21.38               | 21.32                  | 21.19                |                     |
| 5               | 64QAM      | 25      | 0         | 21.40               | 21.25                  | 21.21                |                     |



| Band 41         |            |         |           |                     |                            |                        |                             |                      |                     |  |
|-----------------|------------|---------|-----------|---------------------|----------------------------|------------------------|-----------------------------|----------------------|---------------------|--|
| Ann 0           |            |         |           |                     |                            |                        |                             |                      |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Low Middle Ch / Freq | Power Middle Ch / Freq | Power High Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39750               | 40185                      | 40620                  | 41055                       | 41490                |                     |  |
| Frequency (MHz) |            |         |           | 2506                | 2549.5                     | 2593                   | 2636.5                      | 2680                 |                     |  |
| 20              | QPSK       | 1       | 0         | 20.99               | 20.95                      | 21.07                  | 20.71                       | 20.50                | 22.4                |  |
| 20              | QPSK       | 1       | 49        | 20.95               | 20.98                      | 20.99                  | 20.96                       | 20.82                |                     |  |
| 20              | QPSK       | 1       | 99        | 20.93               | 21.00                      | 21.06                  | 20.52                       | 20.69                |                     |  |
| 20              | QPSK       | 50      | 0         | 21.05               | 21.08                      | 21.09                  | 20.94                       | 20.74                |                     |  |
| 20              | QPSK       | 50      | 24        | 21.12               | 21.16                      | 21.15                  | 21.06                       | 20.88                | 22.4                |  |
| 20              | QPSK       | 50      | 50        | 21.09               | 21.14                      | 21.15                  | 20.90                       | 20.87                |                     |  |
| 20              | QPSK       | 100     | 0         | 21.12               | 21.15                      | 21.14                  | 20.96                       | 20.80                |                     |  |
| 20              | 16QAM      | 1       | 0         | 21.13               | 21.06                      | 21.21                  | 20.74                       | 20.49                |                     |  |
| 20              | 16QAM      | 1       | 49        | 21.05               | 21.07                      | 21.10                  | 21.00                       | 20.89                | 22.4                |  |
| 20              | 16QAM      | 1       | 99        | 21.13               | 21.12                      | 21.23                  | 20.95                       | 20.79                |                     |  |
| 20              | 16QAM      | 50      | 0         | 21.10               | 21.08                      | 21.11                  | 20.97                       | 20.78                |                     |  |
| 20              | 16QAM      | 50      | 24        | 21.16               | 21.18                      | 21.21                  | 21.08                       | 20.92                |                     |  |
| 20              | 16QAM      | 50      | 50        | 21.15               | 21.18                      | 21.17                  | 20.93                       | 20.90                | 22.4                |  |
| 20              | 16QAM      | 100     | 0         | 21.16               | 21.18                      | 21.16                  | 20.99                       | 20.83                |                     |  |
| 20              | 64QAM      | 1       | 0         | 20.82               | 20.73                      | 20.82                  | 20.50                       | 20.50                |                     |  |
| 20              | 64QAM      | 1       | 49        | 20.79               | 20.79                      | 20.84                  | 20.85                       | 20.65                |                     |  |
| 20              | 64QAM      | 1       | 99        | 20.84               | 20.84                      | 20.91                  | 20.50                       | 20.54                | 22.4                |  |
| 20              | 64QAM      | 50      | 0         | 20.80               | 20.76                      | 20.79                  | 20.89                       | 20.70                |                     |  |
| 20              | 64QAM      | 50      | 24        | 20.87               | 20.88                      | 20.90                  | 21.03                       | 20.83                |                     |  |
| 20              | 64QAM      | 50      | 50        | 20.83               | 20.86                      | 20.88                  | 20.84                       | 20.79                |                     |  |
| 20              | 64QAM      | 100     | 0         | 20.84               | 20.84                      | 20.88                  | 20.92                       | 20.76                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39725               | 40173                      | 40620                  | 41068                       | 41515                |                     |  |
| Frequency (MHz) |            |         |           | 2503.5              | 2546.3                     | 2593                   | 2637.8                      | 2682.5               |                     |  |
| 15              | QPSK       | 1       | 0         | 20.97               | 20.94                      | 21.00                  | 20.84                       | 20.57                | 22.4                |  |
| 15              | QPSK       | 1       | 37        | 20.94               | 20.94                      | 20.97                  | 20.99                       | 20.77                |                     |  |
| 15              | QPSK       | 1       | 74        | 20.90               | 21.05                      | 21.08                  | 20.73                       | 20.75                |                     |  |
| 15              | QPSK       | 36      | 0         | 21.12               | 21.04                      | 21.08                  | 20.94                       | 20.79                |                     |  |
| 15              | QPSK       | 36      | 20        | 21.10               | 21.14                      | 21.13                  | 20.97                       | 20.92                | 22.4                |  |
| 15              | QPSK       | 36      | 39        | 21.07               | 21.12                      | 21.14                  | 20.95                       | 20.88                |                     |  |
| 15              | QPSK       | 75      | 0         | 21.12               | 21.13                      | 21.15                  | 20.83                       | 20.83                |                     |  |
| 15              | 16QAM      | 1       | 0         | 21.17               | 21.13                      | 21.18                  | 20.92                       | 20.87                |                     |  |
| 15              | 16QAM      | 1       | 37        | 21.01               | 21.02                      | 21.03                  | 20.96                       | 20.90                | 22.4                |  |
| 15              | 16QAM      | 1       | 74        | 21.10               | 21.20                      | 21.20                  | 20.79                       | 20.89                |                     |  |
| 15              | 16QAM      | 36      | 0         | 21.11               | 21.02                      | 21.08                  | 20.91                       | 20.74                |                     |  |
| 15              | 16QAM      | 36      | 20        | 21.11               | 21.11                      | 21.12                  | 20.94                       | 20.84                |                     |  |
| 15              | 16QAM      | 36      | 39        | 21.07               | 21.11                      | 21.11                  | 20.93                       | 20.86                | 22.4                |  |
| 15              | 16QAM      | 75      | 0         | 21.16               | 21.17                      | 21.19                  | 20.94                       | 20.88                |                     |  |
| 15              | 64QAM      | 1       | 0         | 20.81               | 20.73                      | 20.76                  | 20.81                       | 20.50                |                     |  |
| 15              | 64QAM      | 1       | 37        | 20.80               | 20.81                      | 20.83                  | 20.79                       | 20.61                |                     |  |
| 15              | 64QAM      | 1       | 74        | 20.82               | 20.91                      | 20.95                  | 20.51                       | 20.83                | 22.4                |  |
| 15              | 64QAM      | 36      | 0         | 20.80               | 20.77                      | 20.77                  | 20.87                       | 20.71                |                     |  |
| 15              | 64QAM      | 36      | 20        | 20.81               | 20.84                      | 20.85                  | 20.91                       | 20.82                |                     |  |
| 15              | 64QAM      | 36      | 39        | 20.78               | 20.84                      | 20.84                  | 20.86                       | 20.82                |                     |  |
| 15              | 64QAM      | 75      | 0         | 20.84               | 20.84                      | 20.87                  | 20.85                       | 20.78                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39700               | 40160                      | 40620                  | 41080                       | 41540                |                     |  |
| Frequency (MHz) |            |         |           | 2501                | 2547                       | 2593                   | 2639                        | 2685                 |                     |  |
| 10              | QPSK       | 1       | 0         | 20.88               | 20.89                      | 20.96                  | 20.77                       | 20.55                | 22.4                |  |
| 10              | QPSK       | 1       | 25        | 20.90               | 20.84                      | 20.89                  | 20.93                       | 20.75                |                     |  |
| 10              | QPSK       | 1       | 49        | 20.85               | 20.97                      | 21.00                  | 20.65                       | 20.67                |                     |  |
| 10              | QPSK       | 25      | 0         | 21.02               | 20.96                      | 21.07                  | 20.91                       | 20.70                |                     |  |
| 10              | QPSK       | 25      | 12        | 21.08               | 21.08                      | 21.05                  | 20.90                       | 20.84                | 22.4                |  |
| 10              | QPSK       | 25      | 25        | 21.03               | 21.03                      | 21.09                  | 20.95                       | 20.80                |                     |  |
| 10              | QPSK       | 50      | 0         | 21.02               | 21.10                      | 21.15                  | 20.85                       | 20.75                |                     |  |
| 10              | 16QAM      | 1       | 0         | 21.11               | 21.13                      | 21.14                  | 20.82                       | 20.57                |                     |  |
| 10              | 16QAM      | 1       | 25        | 21.00               | 20.96                      | 20.94                  | 20.93                       | 20.87                | 22.4                |  |
| 10              | 16QAM      | 1       | 49        | 21.00               | 21.13                      | 21.18                  | 20.79                       | 20.85                |                     |  |
| 10              | 16QAM      | 25      | 0         | 21.05               | 20.99                      | 21.07                  | 20.81                       | 20.72                |                     |  |
| 10              | 16QAM      | 25      | 12        | 21.02               | 21.08                      | 21.05                  | 20.91                       | 20.82                |                     |  |
| 10              | 16QAM      | 25      | 25        | 21.05               | 21.05                      | 21.10                  | 20.90                       | 20.77                | 22.4                |  |
| 10              | 16QAM      | 50      | 0         | 21.06               | 21.14                      | 21.13                  | 20.87                       | 20.77                |                     |  |
| 10              | 64QAM      | 1       | 0         | 20.78               | 20.73                      | 20.72                  | 20.59                       | 20.48                |                     |  |
| 10              | 64QAM      | 1       | 25        | 20.80               | 20.74                      | 20.80                  | 20.69                       | 20.56                |                     |  |
| 10              | 64QAM      | 1       | 49        | 20.75               | 20.86                      | 20.85                  | 20.43                       | 20.55                | 22.4                |  |
| 10              | 64QAM      | 25      | 0         | 20.72               | 20.76                      | 20.88                  | 20.78                       | 20.71                |                     |  |
| 10              | 64QAM      | 25      | 12        | 20.78               | 20.80                      | 20.81                  | 20.82                       | 20.77                |                     |  |
| 10              | 64QAM      | 25      | 25        | 20.73               | 20.76                      | 20.76                  | 20.84                       | 20.79                |                     |  |
| 10              | 64QAM      | 50      | 0         | 20.74               | 20.76                      | 20.81                  | 20.83                       | 20.74                | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 39675               | 40148                      | 40620                  | 41093                       | 41565                |                     |  |
| Frequency (MHz) |            |         |           | 2498.5              | 2545.8                     | 2593                   | 2640.30                     | 2687.5               |                     |  |
| 5               | QPSK       | 1       | 0         | 20.97               | 20.94                      | 21.05                  | 20.92                       | 20.42                | 22.4                |  |
| 5               | QPSK       | 1       | 12        | 20.86               | 20.96                      | 20.92                  | 20.94                       | 20.82                |                     |  |
| 5               | QPSK       | 1       | 24        | 20.83               | 20.94                      | 20.98                  | 20.43                       | 20.66                |                     |  |
| 5               | QPSK       | 12      | 0         | 21.05               | 21.02                      | 21.04                  | 20.84                       | 20.72                |                     |  |
| 5               | QPSK       | 12      | 7         | 21.08               | 21.07                      | 21.09                  | 21.06                       | 20.81                | 22.4                |  |
| 5               | QPSK       | 12      | 13        | 21.03               | 21.05                      | 21.07                  | 20.89                       | 20.87                |                     |  |
| 5               | QPSK       | 25      | 0         | 21.03               | 21.15                      | 21.13                  | 20.87                       | 20.79                |                     |  |
| 5               | 16QAM      | 1       | 0         | 21.07               | 20.98                      | 21.17                  | 20.84                       | 20.45                |                     |  |
| 5               | 16QAM      | 1       | 12        | 20.99               | 21.01                      | 21.01                  | 20.97                       | 20.82                | 22.4                |  |
| 5               | 16QAM      | 1       | 24        | 21.05               | 21.03                      | 21.15                  | 20.55                       | 20.70                |                     |  |
| 5               | 16QAM      | 12      | 0         | 21.04               | 21.00                      | 21.02                  | 20.91                       | 20.71                |                     |  |
| 5               | 16QAM      | 12      | 7         | 21.06               | 21.18                      | 21.20                  | 21.02                       | 20.84                | 22.4                |  |
| 5               | 16QAM      | 12      | 13        | 21.14               | 21.12                      | 21.12                  | 20.89                       | 20.81                |                     |  |
| 5               | 16QAM      | 25      | 0         | 21.14               | 21.15                      | 21.15                  | 20.92                       | 20.81                |                     |  |
| 5               | 64QAM      | 1       | 0         | 20.77               | 20.67                      | 20.73                  | 20.45                       | 20.46                | 22.4                |  |
| 5               | 64QAM      | 1       | 12        | 20.79               | 20.70                      | 20.80                  | 20.75                       | 20.61                |                     |  |
| 5               | 64QAM      | 1       | 24        | 20.82               | 20.81                      | 20.82                  | 20.44                       | 20.50                |                     |  |
| 5               | 64QAM      | 12      | 0         | 20.73               | 20.71                      | 20.77                  | 20.79                       | 20.69                |                     |  |
| 5               | 64QAM      | 12      | 7         | 20.82               | 20.82                      | 20.83                  | 20.99                       | 20.80                | 22.4                |  |
| 5               | 64QAM      | 12      | 13        | 20.74               | 20.77                      | 20.86                  | 20.83                       | 20.74                |                     |  |
| 5               | 64QAM      | 25      | 0         | 20.79               | 20.76                      | 20.84                  | 20.82                       | 20.69                |                     |  |



| Band 41 HPUE    |            |         |           |                           |                                  |                              |                                   |                            |                           |  |
|-----------------|------------|---------|-----------|---------------------------|----------------------------------|------------------------------|-----------------------------------|----------------------------|---------------------------|--|
| Ant 9           |            |         |           |                           |                                  |                              |                                   |                            |                           |  |
| 5W (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch / Freq | Power<br>Low-Middle<br>Ch / Freq | Power<br>Middle<br>Ch / Freq | Power<br>High-Middle<br>Ch / Freq | Power<br>High<br>Ch / Freq | Tune-up<br>limit<br>(dBm) |  |
| Channel         |            |         |           | 39750                     | 40185                            | 40620                        | 41055                             | 41490                      |                           |  |
| Frequency (MHz) |            |         |           | 2506                      | 2549.5                           | 2593                         | 2636.5                            | 2680                       |                           |  |
| 20              | QPSK       | 1       | 0         | 22.56                     | 22.49                            | 22.63                        | 22.33                             | 22.30                      | 24.2                      |  |
| 20              | QPSK       | 1       | 49        | 22.51                     | 22.54                            | 22.54                        | 22.57                             | 22.39                      |                           |  |
| 20              | QPSK       | 1       | 99        | 22.53                     | 22.58                            | 22.64                        | 22.30                             | 22.31                      |                           |  |
| 20              | QPSK       | 50      | 0         | 22.72                     | 22.71                            | 22.77                        | 22.63                             | 22.46                      | 24.2                      |  |
| 20              | QPSK       | 50      | 24        | 22.82                     | 22.83                            | 22.87                        | 22.78                             | 22.60                      |                           |  |
| 20              | QPSK       | 50      | 50        | 22.76                     | 22.82                            | 22.83                        | 22.61                             | 22.58                      |                           |  |
| 20              | QPSK       | 100     | 0         | 22.80                     | 22.81                            | 22.83                        | 22.66                             | 22.50                      | 24.2                      |  |
| 20              | 16QAM      | 1       | 0         | 22.82                     | 22.87                            | 22.96                        | 22.70                             | 22.36                      |                           |  |
| 20              | 16QAM      | 1       | 49        | 22.86                     | 22.91                            | 22.96                        | 22.57                             | 22.77                      |                           |  |
| 20              | 16QAM      | 1       | 99        | 22.89                     | 22.91                            | 23.01                        | 22.47                             | 22.66                      | 24.2                      |  |
| 20              | 16QAM      | 50      | 0         | 22.76                     | 22.72                            | 22.78                        | 22.68                             | 22.49                      |                           |  |
| 20              | 16QAM      | 50      | 24        | 22.82                     | 22.86                            | 22.87                        | 22.82                             | 22.63                      |                           |  |
| 20              | 16QAM      | 50      | 50        | 22.81                     | 22.84                            | 22.87                        | 22.64                             | 22.62                      | 24.2                      |  |
| 20              | 16QAM      | 100     | 0         | 22.82                     | 22.85                            | 22.87                        | 22.72                             | 22.54                      |                           |  |
| 20              | 64QAM      | 1       | 0         | 22.73                     | 22.67                            | 22.74                        | 22.47                             | 22.30                      |                           |  |
| 20              | 64QAM      | 1       | 49        | 22.72                     | 22.76                            | 22.73                        | 22.83                             | 22.63                      | 24.2                      |  |
| 20              | 64QAM      | 1       | 99        | 22.77                     | 22.77                            | 22.85                        | 22.30                             | 22.51                      |                           |  |
| 20              | 64QAM      | 50      | 0         | 22.57                     | 22.57                            | 22.61                        | 22.68                             | 22.52                      |                           |  |
| 20              | 64QAM      | 50      | 24        | 22.65                     | 22.70                            | 22.70                        | 22.81                             | 22.61                      | 24.2                      |  |
| 20              | 64QAM      | 50      | 50        | 22.80                     | 22.66                            | 22.69                        | 22.64                             | 22.54                      |                           |  |
| 20              | 64QAM      | 100     | 0         | 22.84                     | 22.65                            | 22.69                        | 22.73                             | 22.55                      |                           |  |
| Channel         |            |         |           | 39725                     | 40173                            | 40620                        | 41068                             | 41515                      | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 2503.5                    | 2546.3                           | 2593                         | 2637.8                            | 2682.5                     |                           |  |
| 15              | QPSK       | 1       | 0         | 22.64                     | 22.62                            | 22.64                        | 22.49                             | 22.25                      | 24.2                      |  |
| 15              | QPSK       | 1       | 37        | 22.56                     | 22.58                            | 22.67                        | 22.61                             | 22.43                      |                           |  |
| 15              | QPSK       | 1       | 74        | 22.57                     | 22.73                            | 22.75                        | 22.37                             | 22.43                      |                           |  |
| 15              | QPSK       | 36      | 0         | 22.80                     | 22.74                            | 22.78                        | 22.63                             | 22.49                      | 24.2                      |  |
| 15              | QPSK       | 36      | 20        | 22.83                     | 22.78                            | 22.86                        | 22.68                             | 22.62                      |                           |  |
| 15              | QPSK       | 36      | 39        | 22.76                     | 22.81                            | 22.81                        | 22.68                             | 22.59                      |                           |  |
| 15              | QPSK       | 75      | 0         | 22.82                     | 22.82                            | 22.86                        | 22.63                             | 22.54                      | 24.2                      |  |
| 15              | 16QAM      | 1       | 0         | 22.86                     | 22.86                            | 22.94                        | 22.84                             | 22.53                      |                           |  |
| 15              | 16QAM      | 1       | 37        | 22.85                     | 22.87                            | 22.86                        | 22.93                             | 22.72                      |                           |  |
| 15              | 16QAM      | 1       | 74        | 22.85                     | 23.00                            | 23.00                        | 22.68                             | 22.76                      | 24.2                      |  |
| 15              | 16QAM      | 36      | 0         | 22.78                     | 22.73                            | 22.70                        | 22.65                             | 22.48                      |                           |  |
| 15              | 16QAM      | 36      | 20        | 22.77                     | 22.77                            | 22.80                        | 22.68                             | 22.59                      |                           |  |
| 15              | 16QAM      | 36      | 39        | 22.73                     | 22.77                            | 22.80                        | 22.68                             | 22.61                      | 24.2                      |  |
| 15              | 16QAM      | 75      | 0         | 22.83                     | 22.82                            | 22.86                        | 22.64                             | 22.59                      |                           |  |
| 15              | 64QAM      | 1       | 0         | 22.70                     | 22.72                            | 22.71                        | 22.64                             | 22.33                      |                           |  |
| 15              | 64QAM      | 1       | 37        | 22.75                     | 22.73                            | 22.76                        | 22.80                             | 22.59                      | 24.2                      |  |
| 15              | 64QAM      | 1       | 74        | 22.73                     | 22.85                            | 22.89                        | 22.50                             | 22.59                      |                           |  |
| 15              | 64QAM      | 36      | 0         | 22.81                     | 22.58                            | 22.59                        | 22.71                             | 22.65                      |                           |  |
| 15              | 64QAM      | 36      | 20        | 22.63                     | 22.63                            | 22.64                        | 22.73                             | 22.65                      | 24.2                      |  |
| 15              | 64QAM      | 36      | 39        | 22.56                     | 22.63                            | 22.65                        | 22.70                             | 22.62                      |                           |  |
| 15              | 64QAM      | 75      | 0         | 22.84                     | 22.64                            | 22.66                        | 22.66                             | 22.57                      |                           |  |
| Channel         |            |         |           | 39700                     | 40160                            | 40620                        | 41080                             | 41540                      | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 2501                      | 2547                             | 2593                         | 2639                              | 2685                       |                           |  |
| 10              | QPSK       | 1       | 0         | 22.56                     | 22.40                            | 22.54                        | 22.28                             | 22.26                      | 24.2                      |  |
| 10              | QPSK       | 1       | 25        | 22.47                     | 22.51                            | 22.52                        | 22.48                             | 22.29                      |                           |  |
| 10              | QPSK       | 1       | 49        | 22.53                     | 22.49                            | 22.63                        | 22.29                             | 22.22                      |                           |  |
| 10              | QPSK       | 25      | 0         | 22.69                     | 22.71                            | 22.77                        | 22.63                             | 22.42                      | 24.2                      |  |
| 10              | QPSK       | 25      | 12        | 22.81                     | 22.75                            | 22.87                        | 22.70                             | 22.57                      |                           |  |
| 10              | QPSK       | 25      | 25        | 22.71                     | 22.81                            | 22.76                        | 22.61                             | 22.53                      |                           |  |
| 10              | QPSK       | 50      | 0         | 22.79                     | 22.76                            | 22.83                        | 22.65                             | 22.48                      | 24.2                      |  |
| 10              | 16QAM      | 1       | 0         | 22.83                     | 22.84                            | 22.98                        | 22.69                             | 22.32                      |                           |  |
| 10              | 16QAM      | 1       | 25        | 22.86                     | 22.85                            | 22.89                        | 22.95                             | 22.71                      |                           |  |
| 10              | 16QAM      | 1       | 49        | 22.89                     | 22.82                            | 22.96                        | 22.38                             | 22.59                      | 24.2                      |  |
| 10              | 16QAM      | 25      | 0         | 22.70                     | 22.70                            | 22.78                        | 22.60                             | 22.40                      |                           |  |
| 10              | 16QAM      | 25      | 12        | 22.73                     | 22.80                            | 22.82                        | 22.73                             | 22.60                      |                           |  |
| 10              | 16QAM      | 25      | 25        | 22.81                     | 22.83                            | 22.80                        | 22.58                             | 22.57                      | 24.2                      |  |
| 10              | 16QAM      | 50      | 0         | 22.73                     | 22.79                            | 22.85                        | 22.71                             | 22.53                      |                           |  |
| 10              | 64QAM      | 1       | 0         | 22.68                     | 22.58                            | 22.70                        | 22.44                             | 22.25                      |                           |  |
| 10              | 64QAM      | 1       | 25        | 22.62                     | 22.74                            | 22.71                        | 22.74                             | 22.55                      | 24.2                      |  |
| 10              | 64QAM      | 1       | 49        | 22.71                     | 22.77                            | 22.76                        | 22.28                             | 22.45                      |                           |  |
| 10              | 64QAM      | 25      | 0         | 22.57                     | 22.54                            | 22.60                        | 22.59                             | 22.46                      |                           |  |
| 10              | 64QAM      | 25      | 12        | 22.62                     | 22.63                            | 22.61                        | 22.79                             | 22.59                      | 24.2                      |  |
| 10              | 64QAM      | 25      | 25        | 22.55                     | 22.62                            | 22.67                        | 22.58                             | 22.54                      |                           |  |
| 10              | 64QAM      | 50      | 0         | 22.84                     | 22.63                            | 22.67                        | 22.73                             | 22.50                      |                           |  |
| Channel         |            |         |           | 39675                     | 40148                            | 40620                        | 41093                             | 41565                      | Tune-up<br>limit<br>(dBm) |  |
| Frequency (MHz) |            |         |           | 2498.5                    | 2545.8                           | 2593                         | 2640.30                           | 2687.5                     |                           |  |
| 5               | QPSK       | 1       | 0         | 22.56                     | 22.44                            | 22.57                        | 22.33                             | 22.26                      | 24.2                      |  |
| 5               | QPSK       | 1       | 12        | 22.47                     | 22.54                            | 22.54                        | 22.56                             | 22.30                      |                           |  |
| 5               | QPSK       | 1       | 24        | 22.48                     | 22.55                            | 22.63                        | 22.21                             | 22.25                      |                           |  |
| 5               | QPSK       | 12      | 0         | 22.66                     | 22.63                            | 22.71                        | 22.56                             | 22.44                      | 24.2                      |  |
| 5               | QPSK       | 12      | 7         | 22.82                     | 22.77                            | 22.87                        | 22.72                             | 22.59                      |                           |  |
| 5               | QPSK       | 12      | 13        | 22.72                     | 22.81                            | 22.74                        | 22.59                             | 22.51                      |                           |  |
| 5               | QPSK       | 25      | 0         | 22.72                     | 22.73                            | 22.79                        | 22.66                             | 22.49                      | 24.2                      |  |
| 5               | 16QAM      | 1       | 0         | 22.86                     | 22.85                            | 22.96                        | 22.69                             | 22.35                      |                           |  |
| 5               | 16QAM      | 1       | 12        | 22.80                     | 22.84                            | 22.89                        | 22.95                             | 22.70                      |                           |  |
| 5               | 16QAM      | 1       | 24        | 22.84                     | 22.86                            | 22.98                        | 22.39                             | 22.63                      | 24.2                      |  |
| 5               | 16QAM      | 12      | 0         | 22.75                     | 22.71                            | 22.70                        | 22.59                             | 22.48                      |                           |  |
| 5               | 16QAM      | 12      | 7         | 22.79                     | 22.84                            | 22.84                        | 22.80                             | 22.61                      |                           |  |
| 5               | 16QAM      | 12      | 13        | 22.79                     | 22.79                            | 22.81                        | 22.56                             | 22.58                      | 24.2                      |  |
| 5               | 16QAM      | 25      | 0         | 22.72                     | 22.81                            | 22.84                        | 22.64                             | 22.53                      |                           |  |
| 5               | 64QAM      | 1       | 0         | 22.69                     | 22.66                            | 22.73                        | 22.47                             | 22.20                      |                           |  |
| 5               | 64QAM      | 1       | 12        | 22.68                     | 22.73                            | 22.73                        | 22.61                             | 22.60                      | 24.2                      |  |
| 5               | 64QAM      | 1       | 24        | 22.77                     | 22.76                            | 22.85                        | 22.20                             | 22.41                      |                           |  |
| 5               | 64QAM      | 12      | 0         | 22.55                     | 22.55                            | 22.51                        | 22.67                             | 22.45                      |                           |  |
| 5               | 64QAM      | 12      | 7         | 22.69                     | 22.70                            | 22.69                        | 22.80                             | 22.53                      | 24.2                      |  |
| 5               | 64QAM      | 12      | 13        | 22.63                     | 22.62                            | 22.64                        | 22.62                             | 22.61                      |                           |  |
| 5               | 64QAM      | 25      | 0         | 22.84                     | 22.58                            | 22.68                        | 22.71                             | 22.48                      |                           |  |



| Band 48         |            |         |           |                       |                              |                               |                        |                     |  |
|-----------------|------------|---------|-----------|-----------------------|------------------------------|-------------------------------|------------------------|---------------------|--|
| Ant 2           |            |         |           |                       |                              |                               |                        |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Low Middle Ch. / Freq. | Power High Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 55340                 | 55830                        | 56160                         | 56640                  |                     |  |
| Frequency (MHz) |            |         |           | 3560                  | 3609                         | 3641                          | 3690                   |                     |  |
| 20              | QPSK       | 1       | 0         | 20.38                 | 20.29                        | 20.20                         | 20.20                  | 21.7                |  |
| 20              | QPSK       | 1       | 49        | 20.18                 | 20.07                        | 19.96                         | 19.96                  |                     |  |
| 20              | QPSK       | 1       | 99        | 20.14                 | 20.03                        | 19.90                         | 19.89                  |                     |  |
| 20              | QPSK       | 50      | 0         | 20.39                 | 20.31                        | 20.19                         | 20.17                  |                     |  |
| 20              | QPSK       | 50      | 24        | 20.33                 | 20.15                        | 20.11                         | 20.11                  | 21.2                |  |
| 20              | QPSK       | 50      | 50        | 20.21                 | 20.09                        | 19.97                         | 19.96                  |                     |  |
| 20              | QPSK       | 100     | 0         | 20.32                 | 20.18                        | 20.11                         | 20.09                  |                     |  |
| 20              | 16QAM      | 1       | 0         | 20.51                 | 20.44                        | 20.31                         | 20.33                  |                     |  |
| 20              | 16QAM      | 1       | 49        | 20.28                 | 20.16                        | 20.07                         | 20.06                  | 21.2                |  |
| 20              | 16QAM      | 1       | 99        | 20.29                 | 20.13                        | 20.03                         | 20.01                  |                     |  |
| 20              | 16QAM      | 50      | 0         | 19.86                 | 19.72                        | 19.62                         | 19.61                  |                     |  |
| 20              | 16QAM      | 50      | 24        | 19.81                 | 19.59                        | 19.54                         | 19.53                  |                     |  |
| 20              | 16QAM      | 50      | 50        | 19.66                 | 19.51                        | 19.40                         | 19.39                  | 20.2                |  |
| 20              | 16QAM      | 100     | 0         | 19.80                 | 19.56                        | 19.51                         | 19.52                  |                     |  |
| 20              | 64QAM      | 1       | 0         | 20.19                 | 20.18                        | 20.09                         | 20.06                  |                     |  |
| 20              | 64QAM      | 1       | 49        | 20.09                 | 19.98                        | 19.87                         | 19.82                  |                     |  |
| 20              | 64QAM      | 1       | 99        | 20.12                 | 19.96                        | 19.79                         | 19.80                  | 20.2                |  |
| 20              | 64QAM      | 50      | 0         | 19.79                 | 19.65                        | 19.56                         | 19.53                  |                     |  |
| 20              | 64QAM      | 50      | 24        | 19.74                 | 19.52                        | 19.47                         | 19.48                  |                     |  |
| 20              | 64QAM      | 50      | 50        | 19.62                 | 19.47                        | 19.33                         | 19.30                  |                     |  |
| 20              | 64QAM      | 100     | 0         | 19.84                 | 19.59                        | 19.56                         | 19.57                  |                     |  |
| Channel         |            |         |           | 55315                 | 55820                        | 56160                         | 56665                  |                     |  |
| Frequency (MHz) |            |         |           | 3557.5                | 3608                         | 3642                          | 3692.5                 |                     |  |
| 15              | QPSK       | 1       | 0         | 20.25                 | 20.19                        | 20.08                         | 19.85                  | 21.7                |  |
| 15              | QPSK       | 1       | 37        | 20.14                 | 20.04                        | 19.89                         | 19.71                  |                     |  |
| 15              | QPSK       | 1       | 74        | 20.11                 | 20.01                        | 19.88                         | 19.70                  |                     |  |
| 15              | QPSK       | 36      | 0         | 20.34                 | 20.28                        | 20.14                         | 19.91                  |                     |  |
| 15              | QPSK       | 36      | 20        | 20.29                 | 20.20                        | 20.06                         | 19.83                  | 21.2                |  |
| 15              | QPSK       | 36      | 39        | 20.18                 | 20.09                        | 19.95                         | 19.76                  |                     |  |
| 15              | QPSK       | 75      | 0         | 20.23                 | 20.23                        | 20.08                         | 19.86                  |                     |  |
| 15              | 16QAM      | 1       | 0         | 20.42                 | 20.36                        | 20.22                         | 20.02                  |                     |  |
| 15              | 16QAM      | 1       | 37        | 20.23                 | 20.11                        | 19.92                         | 19.76                  | 21.2                |  |
| 15              | 16QAM      | 1       | 74        | 20.29                 | 20.21                        | 20.06                         | 19.79                  |                     |  |
| 15              | 16QAM      | 36      | 0         | 19.75                 | 19.64                        | 19.51                         | 19.27                  |                     |  |
| 15              | 16QAM      | 36      | 20        | 19.72                 | 19.55                        | 19.43                         | 19.21                  |                     |  |
| 15              | 16QAM      | 36      | 39        | 19.59                 | 19.46                        | 19.33                         | 19.20                  |                     |  |
| 15              | 16QAM      | 75      | 0         | 19.69                 | 19.64                        | 19.50                         | 19.25                  |                     |  |
| 15              | 64QAM      | 1       | 0         | 20.22                 | 20.15                        | 20.04                         | 19.78                  | 20.2                |  |
| 15              | 64QAM      | 1       | 37        | 20.02                 | 19.96                        | 19.80                         | 19.56                  |                     |  |
| 15              | 64QAM      | 1       | 74        | 20.11                 | 19.97                        | 19.81                         | 19.59                  |                     |  |
| 15              | 64QAM      | 36      | 0         | 19.80                 | 19.67                        | 19.53                         | 19.32                  |                     |  |
| 15              | 64QAM      | 36      | 20        | 19.75                 | 19.61                        | 19.48                         | 19.24                  | 19.2                |  |
| 15              | 64QAM      | 36      | 39        | 19.63                 | 19.48                        | 19.36                         | 19.17                  |                     |  |
| 15              | 64QAM      | 75      | 0         | 19.70                 | 19.62                        | 19.49                         | 19.25                  |                     |  |
| Channel         |            |         |           | 55290                 | 55815                        | 56165                         | 56690                  |                     |  |
| Frequency (MHz) |            |         |           | 3555                  | 3607.5                       | 3642.5                        | 3693                   |                     |  |
| 10              | QPSK       | 1       | 0         | 20.25                 | 20.15                        | 20.04                         | 19.83                  | 21.7                |  |
| 10              | QPSK       | 1       | 25        | 20.12                 | 19.97                        | 19.79                         | 19.72                  |                     |  |
| 10              | QPSK       | 1       | 49        | 20.01                 | 20.00                        | 19.87                         | 19.70                  |                     |  |
| 10              | QPSK       | 25      | 0         | 20.26                 | 20.19                        | 20.10                         | 19.81                  |                     |  |
| 10              | QPSK       | 25      | 12        | 20.22                 | 20.15                        | 20.03                         | 19.81                  | 21.2                |  |
| 10              | QPSK       | 25      | 25        | 20.16                 | 20.00                        | 19.90                         | 19.70                  |                     |  |
| 10              | QPSK       | 50      | 0         | 20.16                 | 20.20                        | 20.08                         | 19.83                  |                     |  |
| 10              | 16QAM      | 1       | 0         | 20.40                 | 20.29                        | 20.20                         | 19.94                  |                     |  |
| 10              | 16QAM      | 1       | 25        | 20.22                 | 20.09                        | 19.84                         | 19.76                  | 21.2                |  |
| 10              | 16QAM      | 1       | 49        | 20.24                 | 20.19                        | 20.00                         | 19.77                  |                     |  |
| 10              | 16QAM      | 25      | 0         | 19.71                 | 19.59                        | 19.42                         | 19.25                  |                     |  |
| 10              | 16QAM      | 25      | 12        | 19.69                 | 19.47                        | 19.42                         | 19.22                  |                     |  |
| 10              | 16QAM      | 25      | 25        | 19.58                 | 19.39                        | 19.24                         | 19.21                  |                     |  |
| 10              | 16QAM      | 50      | 0         | 19.69                 | 19.63                        | 19.50                         | 19.22                  |                     |  |
| 10              | 64QAM      | 1       | 0         | 20.12                 | 20.09                        | 19.97                         | 19.70                  | 20.2                |  |
| 10              | 64QAM      | 1       | 25        | 19.93                 | 19.88                        | 19.77                         | 19.47                  |                     |  |
| 10              | 64QAM      | 1       | 49        | 20.07                 | 19.97                        | 19.72                         | 19.57                  |                     |  |
| 10              | 64QAM      | 25      | 0         | 19.73                 | 19.57                        | 19.43                         | 19.28                  |                     |  |
| 10              | 64QAM      | 25      | 12        | 19.72                 | 19.59                        | 19.48                         | 19.17                  | 19.2                |  |
| 10              | 64QAM      | 25      | 25        | 19.54                 | 19.44                        | 19.33                         | 19.08                  |                     |  |
| 10              | 64QAM      | 50      | 0         | 19.67                 | 19.56                        | 19.39                         | 19.22                  |                     |  |
| Channel         |            |         |           | 55265                 | 55810                        | 56170                         | 56715                  |                     |  |
| Frequency (MHz) |            |         |           | 3552.5                | 3607                         | 3643                          | 3693.5                 |                     |  |
| 5               | QPSK       | 1       | 0         | 20.28                 | 20.15                        | 20.07                         | 20.21                  | 21.7                |  |
| 5               | QPSK       | 1       | 12        | 20.25                 | 20.11                        | 20.04                         | 20.16                  |                     |  |
| 5               | QPSK       | 1       | 24        | 20.23                 | 20.03                        | 19.98                         | 20.12                  |                     |  |
| 5               | QPSK       | 12      | 0         | 20.37                 | 20.23                        | 20.15                         | 20.30                  |                     |  |
| 5               | QPSK       | 12      | 7         | 20.40                 | 20.27                        | 20.11                         | 20.28                  | 21.2                |  |
| 5               | QPSK       | 12      | 13        | 20.32                 | 20.24                        | 20.06                         | 20.21                  |                     |  |
| 5               | QPSK       | 25      | 0         | 20.34                 | 20.27                        | 20.12                         | 20.23                  |                     |  |
| 5               | 16QAM      | 1       | 0         | 20.36                 | 20.26                        | 20.26                         | 20.28                  |                     |  |
| 5               | 16QAM      | 1       | 12        | 20.44                 | 20.32                        | 20.25                         | 20.33                  | 21.2                |  |
| 5               | 16QAM      | 1       | 24        | 20.38                 | 20.29                        | 20.17                         | 20.24                  |                     |  |
| 5               | 16QAM      | 12      | 0         | 19.73                 | 19.63                        | 19.61                         | 19.66                  |                     |  |
| 5               | 16QAM      | 12      | 7         | 19.77                 | 19.65                        | 19.56                         | 19.65                  |                     |  |
| 5               | 16QAM      | 12      | 13        | 19.73                 | 19.64                        | 19.47                         | 19.57                  |                     |  |
| 5               | 16QAM      | 25      | 0         | 19.78                 | 19.69                        | 19.57                         | 19.64                  |                     |  |
| 5               | 64QAM      | 1       | 0         | 20.15                 | 20.06                        | 19.99                         | 20.10                  | 20.2                |  |
| 5               | 64QAM      | 1       | 12        | 20.16                 | 20.02                        | 20.01                         | 20.07                  |                     |  |
| 5               | 64QAM      | 1       | 24        | 20.14                 | 20.01                        | 19.91                         | 19.97                  |                     |  |
| 5               | 64QAM      | 12      | 0         | 19.73                 | 19.64                        | 19.56                         | 19.67                  |                     |  |
| 5               | 64QAM      | 12      | 7         | 19.77                 | 19.65                        | 19.51                         | 19.62                  | 19.2                |  |
| 5               | 64QAM      | 12      | 13        | 19.71                 | 19.59                        | 19.51                         | 19.59                  |                     |  |
| 5               | 64QAM      | 25      | 0         | 19.73                 | 19.64                        | 19.53                         | 19.59                  |                     |  |
|                 |            |         |           |                       |                              |                               |                        |                     |  |





| n2              |            |         |           |                             |                          |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------|------------------------------|---------------------------|
| Art 2           |            |         |           |                             |                          |                              |                           |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Mid Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>(dBm)<br>limit |
| Channel         |            |         |           | 372000                      | 376000                   | 380000                       | limit                     |
| Frequency (MHz) |            |         |           | 1660                        | 1670                     | 1680                         | limit                     |
| 20              | Pl2 BPSK   | 1       | 1         | 24.65                       | 24.74                    | 24.70                        | 25.7                      |
| 20              | Pl2 BPSK   | 1       | 53        | 24.65                       | 24.69                    | 24.68                        |                           |
| 20              | Pl2 BPSK   | 1       | 104       | 24.65                       | 24.65                    | 24.66                        |                           |
| 20              | Pl2 BPSK   | 50      | 0         | 24.15                       | 24.34                    | 24.19                        |                           |
| 20              | Pl2 BPSK   | 50      | 28        | 24.70                       | 24.79                    | 24.73                        | 25.7                      |
| 20              | Pl2 BPSK   | 50      | 56        | 24.28                       | 24.28                    | 24.31                        |                           |
| 20              | Pl2 BPSK   | 100     | 0         | 24.28                       | 24.32                    | 24.27                        |                           |
| 20              | QPSK       | 1       | 1         | 24.00                       | 24.09                    | 24.04                        |                           |
| 20              | QPSK       | 1       | 53        | 23.95                       | 24.00                    | 24.05                        | 25.2                      |
| 20              | QPSK       | 1       | 104       | 24.00                       | 24.03                    | 23.97                        |                           |
| 20              | QPSK       | 50      | 0         | 23.03                       | 23.24                    | 23.08                        |                           |
| 20              | QPSK       | 50      | 28        | 23.55                       | 23.62                    | 23.63                        |                           |
| 20              | QPSK       | 50      | 56        | 23.10                       | 23.08                    | 23.16                        | 24.7                      |
| 20              | QPSK       | 100     | 0         | 23.10                       | 23.17                    | 23.07                        |                           |
| 20              | 16QAM      | 1       | 1         | 23.00                       | 23.08                    | 23.01                        |                           |
| 20              | 16QAM      | 1       | 53        | 22.98                       | 23.04                    | 23.02                        |                           |
| 20              | 16QAM      | 1       | 104       | 23.02                       | 22.97                    | 23.01                        | 24.2                      |
| 20              | 16QAM      | 50      | 0         | 22.15                       | 22.35                    | 22.24                        |                           |
| 20              | 16QAM      | 50      | 28        | 22.78                       | 22.86                    | 22.79                        |                           |
| 20              | 16QAM      | 50      | 56        | 22.36                       | 22.27                    | 22.38                        |                           |
| 20              | 16QAM      | 100     | 0         | 22.35                       | 22.33                    | 22.34                        | 23.2                      |
| 20              | 64QAM      | 1       | 1         | 21.96                       | 22.13                    | 22.00                        |                           |
| 20              | 64QAM      | 1       | 53        | 21.98                       | 22.07                    | 22.03                        |                           |
| 20              | 64QAM      | 1       | 104       | 21.95                       | 21.98                    | 22.01                        |                           |
| 20              | 64QAM      | 50      | 0         | 21.52                       | 21.68                    | 21.54                        | 23.2                      |
| 20              | 64QAM      | 50      | 28        | 22.08                       | 22.13                    | 22.08                        |                           |
| 20              | 64QAM      | 50      | 56        | 21.57                       | 21.65                    | 21.62                        |                           |
| 20              | 64QAM      | 100     | 0         | 21.68                       | 21.66                    | 21.58                        |                           |
| 20              | 256QAM     | 1       | 1         | 19.48                       | 19.61                    | 19.56                        | 21.2                      |
| 20              | 256QAM     | 1       | 53        | 19.47                       | 19.52                    | 19.49                        |                           |
| 20              | 256QAM     | 1       | 104       | 19.53                       | 19.52                    | 19.48                        |                           |
| 20              | 256QAM     | 50      | 0         | 19.51                       | 19.69                    | 19.55                        |                           |
| 20              | 256QAM     | 50      | 28        | 20.10                       | 20.18                    | 20.13                        | 21.2                      |
| 20              | 256QAM     | 50      | 56        | 19.57                       | 19.58                    | 19.68                        |                           |
| 20              | 256QAM     | 100     | 0         | 19.62                       | 19.66                    | 19.67                        |                           |
| 15              | Pl2 BPSK   | 1       | 1         | 24.32                       | 24.36                    | 24.34                        | 25.7                      |
| Channel         |            |         |           | 371000                      | 376000                   | 381000                       | limit                     |
| Frequency (MHz) |            |         |           | 1855                        | 1880                     | 1905                         | limit                     |
| 10              | Pl2 BPSK   | 1       | 1         | 24.25                       | 24.43                    | 24.39                        | 25.7                      |
| Channel         |            |         |           | 370500                      | 376000                   | 381000                       | limit                     |
| Frequency (MHz) |            |         |           | 1852.5                      | 1880                     | 1907.5                       | limit                     |
| 5               | Pl2 BPSK   | 1       | 1         | 24.27                       | 24.38                    | 24.34                        | 25.7                      |



| n5              |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ant 0           |            |         |           |                             |                                |                              |                           |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 166800                      | 167800                         | 167800                       | Turn-on<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 834                         | 834.5                          | 834                          |                           |
| 20              | PI2 BPSK   | 1       | 1         | 23.71                       | 23.72                          | 23.63                        | 25.0                      |
| 20              | PI2 BPSK   | 1       | 53        | 23.64                       | 23.67                          | 23.62                        |                           |
| 20              | PI2 BPSK   | 1       | 104       | 23.52                       | 23.50                          | 23.40                        |                           |
| 20              | PI2 BPSK   | 50      | 0         | 23.52                       | 23.60                          | 23.48                        | 25.0                      |
| 20              | PI2 BPSK   | 50      | 28        | 23.85                       | 23.70                          | 23.63                        |                           |
| 20              | PI2 BPSK   | 50      | 56        | 23.51                       | 23.47                          | 23.34                        |                           |
| 20              | PI2 BPSK   | 100     | 0         | 23.55                       | 23.62                          | 23.61                        | 24.5                      |
| 20              | QPSK       | 1       | 1         | 23.08                       | 23.09                          | 23.03                        | 24.5                      |
| 20              | QPSK       | 1       | 53        | 23.05                       | 23.01                          | 23.02                        |                           |
| 20              | QPSK       | 1       | 104       | 22.89                       | 22.89                          | 22.70                        |                           |
| 20              | QPSK       | 50      | 0         | 22.36                       | 22.42                          | 22.29                        | 24.5                      |
| 20              | QPSK       | 50      | 28        | 22.50                       | 22.52                          | 22.43                        |                           |
| 20              | QPSK       | 50      | 56        | 22.40                       | 22.31                          | 22.22                        |                           |
| 20              | QPSK       | 100     | 0         | 22.43                       | 22.50                          | 22.49                        | 24.0                      |
| 20              | 16QAM      | 1       | 1         | 22.59                       | 22.89                          | 22.54                        | 23.5                      |
| 20              | 16QAM      | 1       | 53        | 22.67                       | 22.73                          | 22.67                        |                           |
| 20              | 16QAM      | 1       | 104       | 22.57                       | 22.53                          | 22.39                        |                           |
| 20              | 16QAM      | 50      | 0         | 21.65                       | 21.77                          | 21.58                        | 23.5                      |
| 20              | 16QAM      | 50      | 28        | 21.74                       | 21.81                          | 21.74                        |                           |
| 20              | 16QAM      | 50      | 56        | 21.57                       | 21.99                          | 21.50                        |                           |
| 20              | 16QAM      | 100     | 0         | 21.59                       | 21.72                          | 21.59                        | 22.5                      |
| 20              | 64QAM      | 1       | 1         | 21.03                       | 21.14                          | 20.99                        | 22.5                      |
| 20              | 64QAM      | 1       | 53        | 21.05                       | 21.16                          | 21.09                        |                           |
| 20              | 64QAM      | 1       | 104       | 21.06                       | 21.22                          | 21.04                        |                           |
| 20              | 64QAM      | 50      | 0         | 21.01                       | 21.22                          | 21.04                        | 22.5                      |
| 20              | 64QAM      | 50      | 28        | 21.00                       | 21.20                          | 20.99                        |                           |
| 20              | 64QAM      | 50      | 56        | 21.05                       | 21.13                          | 20.99                        |                           |
| 20              | 64QAM      | 100     | 0         | 21.00                       | 21.22                          | 20.99                        | 22.5                      |
| 20              | 256QAM     | 1       | 1         | 19.05                       | 19.26                          | 19.01                        | 20.5                      |
| 20              | 256QAM     | 1       | 53        | 19.06                       | 19.21                          | 19.00                        |                           |
| 20              | 256QAM     | 1       | 104       | 19.00                       | 19.26                          | 19.05                        |                           |
| 20              | 256QAM     | 50      | 0         | 19.08                       | 19.23                          | 19.02                        | 20.5                      |
| 20              | 256QAM     | 50      | 28        | 19.08                       | 19.13                          | 19.07                        |                           |
| 20              | 256QAM     | 50      | 56        | 19.02                       | 19.25                          | 19.06                        |                           |
| 20              | 256QAM     | 100     | 0         | 19.10                       | 19.27                          | 18.99                        | 20.5                      |
| Channel         |            |         |           | 166300                      | 167800                         | 168300                       | Turn-on<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 831.5                       | 834.5                          | 841.5                        |                           |
| 15              | PI2 BPSK   | 1       | 1         | 23.69                       | 23.68                          | 23.57                        | 25.0                      |
| Channel         |            |         |           | 165800                      | 167300                         | 168800                       | Turn-on<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 829                         | 836.5                          | 844                          |                           |
| 10              | PI2 BPSK   | 1       | 1         | 23.67                       | 23.67                          | 23.60                        | 25.0                      |
| Channel         |            |         |           | 165300                      | 167300                         | 169300                       | Turn-on<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 826.5                       | 836.5                          | 846.5                        |                           |
| 5               | PI2 BPSK   | 1       | 1         | 23.65                       | 23.72                          | 23.59                        | 25.0                      |



| n25             |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| Ant 2           |            |         |           |                     |                        |                      |                     |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power Low Ch / Freq | Power Middle Ch / Freq | Power High Ch / Freq | Tune-up limit (dBm) |
| Channel         |            |         |           | 372000              | 376000                 | 381000               | Turn-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1700                | 1740                   | 1805                 |                     |
| 20              | Pi2 BPSK   | 1       | 1         | 24.61               | 24.59                  | 24.65                | 25.7                |
| 20              | Pi2 BPSK   | 1       | 53        | 24.63               | 24.67                  | 24.62                |                     |
| 20              | Pi2 BPSK   | 1       | 104       | 24.33               | 24.58                  | 23.60                |                     |
| 20              | Pi2 BPSK   | 50      | 0         | 24.21               | 24.00                  | 23.40                |                     |
| 20              | Pi2 BPSK   | 50      | 28        | 24.84               | 24.77                  | 24.41                | 25.7                |
| 20              | Pi2 BPSK   | 50      | 56        | 23.68               | 24.22                  | 23.75                |                     |
| 20              | Pi2 BPSK   | 100     | 0         | 24.20               | 24.21                  | 23.55                |                     |
| 20              | QPSK       | 1       | 1         | 23.98               | 23.89                  | 23.40                |                     |
| 20              | QPSK       | 1       | 53        | 23.94               | 24.05                  | 23.96                | 24.7                |
| 20              | QPSK       | 1       | 104       | 23.70               | 23.90                  | 22.93                |                     |
| 20              | QPSK       | 50      | 0         | 23.08               | 22.85                  | 22.73                |                     |
| 20              | QPSK       | 50      | 28        | 23.48               | 23.64                  | 23.26                |                     |
| 20              | QPSK       | 50      | 56        | 22.72               | 23.06                  | 22.71                | 24.7                |
| 20              | QPSK       | 100     | 0         | 23.07               | 23.06                  | 22.23                |                     |
| 20              | 16QAM      | 1       | 1         | 22.84               | 22.89                  | 22.21                |                     |
| 20              | 16QAM      | 1       | 53        | 22.71               | 22.75                  | 22.70                |                     |
| 20              | 16QAM      | 1       | 104       | 22.41               | 22.68                  | 22.31                | 23.7                |
| 20              | 16QAM      | 50      | 0         | 22.34               | 22.19                  | 22.24                |                     |
| 20              | 16QAM      | 50      | 28        | 22.84               | 22.97                  | 22.52                |                     |
| 20              | 16QAM      | 50      | 56        | 22.21               | 22.39                  | 22.23                |                     |
| 20              | 16QAM      | 100     | 0         | 22.31               | 22.39                  | 21.72                | 23.2                |
| 20              | 64QAM      | 1       | 1         | 21.97               | 21.99                  | 21.38                |                     |
| 20              | 64QAM      | 1       | 53        | 22.02               | 22.03                  | 21.92                |                     |
| 20              | 64QAM      | 1       | 104       | 21.68               | 21.88                  | 21.22                |                     |
| 20              | 64QAM      | 50      | 0         | 21.98               | 21.75                  | 21.21                | 23.2                |
| 20              | 64QAM      | 50      | 28        | 22.39               | 22.55                  | 22.19                |                     |
| 20              | 64QAM      | 50      | 56        | 21.44               | 21.97                  | 21.47                |                     |
| 20              | 64QAM      | 100     | 0         | 21.98               | 21.93                  | 21.35                |                     |
| 20              | 256QAM     | 1       | 1         | 19.54               | 19.57                  | 19.24                | 21.2                |
| 20              | 256QAM     | 1       | 53        | 19.56               | 19.58                  | 19.52                |                     |
| 20              | 256QAM     | 1       | 104       | 19.31               | 19.58                  | 19.25                |                     |
| 20              | 256QAM     | 50      | 0         | 19.60               | 19.36                  | 19.24                |                     |
| 20              | 256QAM     | 50      | 28        | 20.00               | 20.12                  | 19.79                | 21.2                |
| 20              | 256QAM     | 50      | 56        | 19.00               | 19.59                  | 19.22                |                     |
| 20              | 256QAM     | 100     | 0         | 19.50               | 19.61                  | 19.21                |                     |
| Channel         |            |         |           | 371500              | 376000                 | 381500               | Turn-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1827.5              | 1760                   | 1907.5               |                     |
| 15              | Pi2 BPSK   | 1       | 1         | 24.53               | 24.59                  | 23.98                | 25.7                |
| Channel         |            |         |           | 371000              | 375000                 | 382000               | Turn-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1855                | 1880                   | 1910                 |                     |
| 10              | Pi2 BPSK   | 1       | 1         | 24.52               | 24.52                  | 23.99                | 25.7                |
| Channel         |            |         |           | 376200              | 378000                 | 382500               | Turn-up limit (dBm) |
| Frequency (MHz) |            |         |           | 1922.5              | 1880                   | 1912.5               |                     |
| 5               | Pi2 BPSK   | 1       | 1         | 24.54               | 24.49                  | 23.95                | 25.7                |



| n66             |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ant 2           |            |         |           |                             |                                |                              |                           |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 344000                      | 349000                         | 354000                       | turn-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1720                        | 1745                           | 1775                         |                           |
| 20              | PI2 BPSK   | 1       | 1         | 24.43                       | 23.71                          | 24.32                        | 25.7                      |
| 20              | PI2 BPSK   | 1       | 53        | 24.34                       | 24.21                          | 24.23                        |                           |
| 20              | PI2 BPSK   | 1       | 104       | 24.45                       | 24.33                          | 24.33                        |                           |
| 20              | PI2 BPSK   | 50      | 0         | 24.16                       | 23.72                          | 23.82                        | 25.7                      |
| 20              | PI2 BPSK   | 50      | 28        | 24.45                       | 24.42                          | 24.33                        |                           |
| 20              | PI2 BPSK   | 50      | 56        | 23.81                       | 24.05                          | 23.94                        |                           |
| 20              | PI2 BPSK   | 100     | 0         | 23.92                       | 23.76                          | 23.90                        | 25.2                      |
| 20              | QPSK       | 1       | 1         | 24.29                       | 23.54                          | 24.15                        | 24.7                      |
| 20              | QPSK       | 1       | 53        | 24.17                       | 24.01                          | 24.04                        |                           |
| 20              | QPSK       | 1       | 104       | 24.34                       | 24.22                          | 24.14                        |                           |
| 20              | QPSK       | 50      | 0         | 23.48                       | 22.80                          | 23.21                        | 24.7                      |
| 20              | QPSK       | 50      | 28        | 23.76                       | 23.77                          | 23.72                        |                           |
| 20              | QPSK       | 50      | 56        | 23.19                       | 23.41                          | 23.26                        |                           |
| 20              | QPSK       | 100     | 0         | 23.32                       | 23.06                          | 23.20                        | 24.2                      |
| 20              | 16QAM      | 1       | 1         | 22.82                       | 22.06                          | 22.62                        | 23.7                      |
| 20              | 16QAM      | 1       | 53        | 22.89                       | 22.61                          | 22.62                        |                           |
| 20              | 16QAM      | 1       | 104       | 22.77                       | 22.73                          | 22.67                        |                           |
| 20              | 16QAM      | 50      | 0         | 22.55                       | 21.77                          | 22.16                        | 23.7                      |
| 20              | 16QAM      | 50      | 28        | 22.84                       | 22.79                          | 22.64                        |                           |
| 20              | 16QAM      | 50      | 56        | 22.11                       | 22.36                          | 22.25                        |                           |
| 20              | 16QAM      | 100     | 0         | 22.31                       | 22.16                          | 22.25                        | 23.2                      |
| 20              | 64QAM      | 1       | 1         | 22.36                       | 21.64                          | 22.31                        | 23.2                      |
| 20              | 64QAM      | 1       | 53        | 22.29                       | 22.19                          | 22.22                        |                           |
| 20              | 64QAM      | 1       | 104       | 22.45                       | 22.31                          | 22.30                        |                           |
| 20              | 64QAM      | 50      | 0         | 22.07                       | 21.32                          | 21.62                        | 23.2                      |
| 20              | 64QAM      | 50      | 28        | 22.36                       | 22.41                          | 22.32                        |                           |
| 20              | 64QAM      | 50      | 56        | 21.76                       | 22.03                          | 21.87                        |                           |
| 20              | 64QAM      | 100     | 0         | 21.89                       | 21.67                          | 21.85                        | 23.2                      |
| 20              | 256QAM     | 1       | 1         | 19.78                       | 19.23                          | 19.67                        | 21.2                      |
| 20              | 256QAM     | 1       | 53        | 19.73                       | 19.59                          | 19.58                        |                           |
| 20              | 256QAM     | 1       | 104       | 19.76                       | 19.67                          | 19.63                        |                           |
| 20              | 256QAM     | 50      | 0         | 20.05                       | 19.21                          | 19.63                        | 21.2                      |
| 20              | 256QAM     | 50      | 28        | 20.27                       | 20.30                          | 20.14                        |                           |
| 20              | 256QAM     | 50      | 56        | 19.94                       | 19.85                          | 19.74                        |                           |
| 20              | 256QAM     | 100     | 0         | 19.74                       | 19.61                          | 19.79                        | 21.2                      |
| Channel         |            |         |           | 343000                      | 349000                         | 354000                       | turn-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1717.5                      | 1745                           | 1772.5                       |                           |
| 15              | PI2 BPSK   | 1       | 1         | 24.34                       | 23.73                          | 24.28                        | 25.7                      |
| Channel         |            |         |           | 343000                      | 349000                         | 355000                       | turn-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1715                        | 1745                           | 1775                         |                           |
| 10              | PI2 BPSK   | 1       | 1         | 24.37                       | 23.71                          | 24.28                        | 25.7                      |
| Channel         |            |         |           | 342500                      | 349000                         | 355000                       | turn-up<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 1712.5                      | 1745                           | 1777.5                       |                           |
| 5               | PI2 BPSK   | 1       | 1         | 24.43                       | 23.74                          | 24.28                        | 25.7                      |



| n71             |            |         |           |                             |                                |                              |                           |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|---------------------------|
| Ant 0           |            |         |           |                             |                                |                              |                           |
| BW (MHz)        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 134600                      | 136100                         | 137600                       | Turn-on<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 570.5                       | 590.5                          | 610.5                        |                           |
| 20              | PI2 BPSK   | 1       | 1         | 24.22                       | 24.30                          | 24.88                        | 25.7                      |
| 20              | PI2 BPSK   | 1       | 53        | 24.81                       | 24.84                          | 24.89                        |                           |
| 20              | PI2 BPSK   | 1       | 104       | 24.80                       | 24.83                          | 24.89                        |                           |
| 20              | PI2 BPSK   | 50      | 0         | 23.86                       | 24.29                          | 24.15                        |                           |
| 20              | PI2 BPSK   | 50      | 28        | 24.75                       | 24.85                          | 24.81                        | 25.7                      |
| 20              | PI2 BPSK   | 50      | 56        | 24.58                       | 24.49                          | 24.37                        |                           |
| 20              | PI2 BPSK   | 100     | 0         | 24.14                       | 24.21                          | 24.28                        | 25.2                      |
| 20              | QPSK       | 1       | 1         | 23.56                       | 23.60                          | 24.18                        |                           |
| 20              | QPSK       | 1       | 53        | 24.19                       | 24.24                          | 24.24                        | 25.2                      |
| 20              | QPSK       | 1       | 104       | 24.13                       | 24.13                          | 23.97                        |                           |
| 20              | QPSK       | 50      | 0         | 22.88                       | 23.36                          | 23.22                        |                           |
| 20              | QPSK       | 50      | 28        | 23.77                       | 23.96                          | 23.81                        | 25.2                      |
| 20              | QPSK       | 50      | 56        | 23.99                       | 23.97                          | 23.97                        |                           |
| 20              | QPSK       | 100     | 0         | 23.17                       | 23.24                          | 23.33                        | 24.7                      |
| 20              | 16QAM      | 1       | 1         | 22.27                       | 22.32                          | 22.92                        |                           |
| 20              | 16QAM      | 1       | 53        | 22.88                       | 22.93                          | 22.94                        | 24.2                      |
| 20              | 16QAM      | 1       | 104       | 22.80                       | 22.88                          | 22.88                        |                           |
| 20              | 16QAM      | 50      | 0         | 22.21                       | 22.39                          | 22.24                        |                           |
| 20              | 16QAM      | 50      | 28        | 22.79                       | 23.01                          | 22.92                        | 24.2                      |
| 20              | 16QAM      | 50      | 56        | 22.82                       | 22.53                          | 22.41                        |                           |
| 20              | 16QAM      | 100     | 0         | 22.17                       | 22.28                          | 22.35                        | 23.7                      |
| 20              | 64QAM      | 1       | 1         | 22.06                       | 22.12                          | 22.78                        |                           |
| 20              | 64QAM      | 1       | 53        | 22.88                       | 22.85                          | 22.73                        | 23.2                      |
| 20              | 64QAM      | 1       | 104       | 22.89                       | 22.85                          | 22.40                        |                           |
| 20              | 64QAM      | 50      | 0         | 21.73                       | 22.19                          | 21.86                        |                           |
| 20              | 64QAM      | 50      | 28        | 22.56                       | 22.83                          | 22.80                        | 23.2                      |
| 20              | 64QAM      | 50      | 56        | 22.47                       | 22.36                          | 22.27                        |                           |
| 20              | 64QAM      | 100     | 0         | 22.03                       | 22.04                          | 22.15                        | 23.2                      |
| 20              | 256QAM     | 1       | 1         | 19.46                       | 19.51                          | 20.18                        |                           |
| 20              | 256QAM     | 1       | 53        | 20.08                       | 20.06                          | 20.16                        | 21.2                      |
| 20              | 256QAM     | 1       | 104       | 20.08                       | 20.12                          | 19.83                        |                           |
| 20              | 256QAM     | 50      | 0         | 19.95                       | 20.36                          | 20.17                        |                           |
| 20              | 256QAM     | 50      | 28        | 20.79                       | 21.02                          | 20.91                        | 21.2                      |
| 20              | 256QAM     | 50      | 56        | 20.85                       | 20.49                          | 20.39                        |                           |
| 20              | 256QAM     | 100     | 0         | 20.17                       | 20.28                          | 20.30                        | 21.2                      |
| Channel         |            |         |           | 134100                      | 136100                         | 138100                       | Turn-on<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 570.5                       | 590.5                          | 610.5                        |                           |
| 15              | PI2 BPSK   | 1       | 1         | 24.20                       | 24.21                          | 24.88                        | 25.7                      |
| Channel         |            |         |           | 135000                      | 136100                         | 138000                       | Turn-on<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 668                         | 680.5                          | 693                          |                           |
| 10              | PI2 BPSK   | 1       | 1         | 24.13                       | 24.23                          | 24.85                        | 25.7                      |
| Channel         |            |         |           | 133100                      | 135000                         | 139100                       | Turn-on<br>limit<br>(dBm) |
| Frequency (MHz) |            |         |           | 685.5                       | 690.5                          | 695.5                        |                           |
| 5               | PI2 BPSK   | 1       | 1         | 24.20                       | 24.29                          | 24.80                        | 25.7                      |

| n12             |            |         |           |                     |                        |                      |                     |
|-----------------|------------|---------|-----------|---------------------|------------------------|----------------------|---------------------|
| Act 0           |            |         |           |                     |                        |                      |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. Freq. | Power Middle Ch. Freq. | Power High Ch. Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 141300              | 141500                 | 141700               |                     |
| Frequency (MHz) |            |         |           | 705.5               | 707.5                  | 709.5                |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 23.74               | 23.76                  | 23.73                | 24.7                |
| 15              | PI/2 BPSK  | 1       | 40        | 23.58               | 23.65                  | 23.63                |                     |
| 15              | PI/2 BPSK  | 1       | 77        | 23.57               | 23.49                  | 23.49                |                     |
| 15              | PI/2 BPSK  | 36      | 0         | 23.31               | 23.31                  | 23.28                | 24.7                |
| 15              | PI/2 BPSK  | 36      | 22        | 23.61               | 23.62                  | 23.60                |                     |
| 15              | PI/2 BPSK  | 36      | 43        | 23.28               | 23.24                  | 23.23                |                     |
| 15              | PI/2 BPSK  | 75      | 0         | 23.33               | 23.38                  | 23.31                | 24.2                |
| 15              | QPSK       | 1       | 1         | 23.28               | 23.31                  | 23.32                | 24.2                |
| 15              | QPSK       | 1       | 40        | 23.14               | 23.19                  | 23.13                |                     |
| 15              | QPSK       | 1       | 77        | 23.14               | 22.98                  | 23.06                |                     |
| 15              | QPSK       | 36      | 0         | 22.30               | 22.31                  | 22.31                | 24.2                |
| 15              | QPSK       | 36      | 22        | 22.12               | 22.18                  | 22.14                |                     |
| 15              | QPSK       | 36      | 43        | 22.10               | 22.07                  | 22.09                |                     |
| 15              | QPSK       | 75      | 0         | 22.31               | 22.32                  | 22.24                | 23.7                |
| 15              | 16QAM      | 1       | 1         | 22.29               | 22.32                  | 22.33                | 23.2                |
| 15              | 16QAM      | 1       | 40        | 22.15               | 22.23                  | 22.21                |                     |
| 15              | 16QAM      | 1       | 77        | 22.13               | 22.06                  | 22.09                |                     |
| 15              | 16QAM      | 36      | 0         | 21.31               | 21.38                  | 21.38                | 23.2                |
| 15              | 16QAM      | 36      | 22        | 21.24               | 21.25                  | 21.31                |                     |
| 15              | 16QAM      | 36      | 43        | 21.19               | 21.10                  | 21.09                |                     |
| 15              | 16QAM      | 75      | 0         | 21.22               | 21.08                  | 21.12                | 22.2                |
| 15              | 64QAM      | 1       | 1         | 21.08               | 21.10                  | 21.08                | 22.2                |
| 15              | 64QAM      | 1       | 40        | 20.95               | 20.94                  | 20.95                |                     |
| 15              | 64QAM      | 1       | 77        | 20.86               | 20.80                  | 20.85                |                     |
| 15              | 64QAM      | 36      | 0         | 20.50               | 20.54                  | 20.62                | 22.2                |
| 15              | 64QAM      | 36      | 22        | 20.36               | 20.46                  | 20.45                |                     |
| 15              | 64QAM      | 36      | 43        | 20.34               | 20.29                  | 20.31                |                     |
| 15              | 64QAM      | 75      | 0         | 20.49               | 20.52                  | 20.61                | 22.2                |
| 15              | 256QAM     | 1       | 1         | 18.80               | 18.84                  | 18.87                | 20.2                |
| 15              | 256QAM     | 1       | 40        | 18.75               | 18.78                  | 18.90                |                     |
| 15              | 256QAM     | 1       | 77        | 18.78               | 18.80                  | 18.82                |                     |
| 15              | 256QAM     | 36      | 0         | 18.77               | 18.83                  | 18.86                | 20.2                |
| 15              | 256QAM     | 36      | 22        | 18.78               | 18.78                  | 18.91                |                     |
| 15              | 256QAM     | 36      | 43        | 18.74               | 18.78                  | 18.91                |                     |
| 15              | 256QAM     | 75      | 0         | 18.72               | 18.78                  | 18.84                | 20.2                |
| Channel         |            |         |           | 140800              | 141500                 | 142200               |                     |
| Frequency (MHz) |            |         |           | 704                 | 707.5                  | 711                  |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 23.73               | 23.76                  | 23.71                | 24.7                |
| Channel         |            |         |           | 140300              | 141500                 | 142700               |                     |
| Frequency (MHz) |            |         |           | 701.5               | 707.5                  | 713.5                |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 23.65               | 23.75                  | 23.63                | 24.7                |

| n2              |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Act 0           |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 |                     |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |
| 20              | PI/2 BPSK  | 1       | 1         | 24.57                 | 24.47                    | 24.40                  | 25.7                |
| 20              | PI/2 BPSK  | 1       | 53        | 24.51                 | 24.46                    | 24.36                  |                     |
| 20              | PI/2 BPSK  | 1       | 104       | 24.42                 | 24.42                    | 24.28                  |                     |
| 20              | PI/2 BPSK  | 50      | 0         | 24.05                 | 24.07                    | 23.95                  |                     |
| 20              | PI/2 BPSK  | 50      | 28        | 24.54                 | 24.53                    | 24.43                  | 25.7                |
| 20              | PI/2 BPSK  | 50      | 56        | 24.04                 | 24.02                    | 23.98                  |                     |
| 20              | PI/2 BPSK  | 100     | 0         | 24.11                 | 24.00                    | 23.97                  |                     |
| 20              | PI/2 BPSK  | 100     | 56        | 24.11                 | 24.00                    | 23.97                  |                     |
| 20              | QPSK       | 1       | 1         | 23.70                 | 23.60                    | 23.58                  | 24.7                |
| 20              | QPSK       | 1       | 53        | 23.66                 | 23.62                    | 23.49                  |                     |
| 20              | QPSK       | 1       | 104       | 23.59                 | 23.52                    | 23.46                  |                     |
| 20              | QPSK       | 50      | 0         | 22.76                 | 22.78                    | 22.70                  |                     |
| 20              | QPSK       | 50      | 28        | 23.27                 | 23.28                    | 23.18                  | 24.7                |
| 20              | QPSK       | 50      | 56        | 22.84                 | 22.78                    | 22.75                  |                     |
| 20              | QPSK       | 100     | 0         | 22.83                 | 22.71                    | 22.76                  |                     |
| 20              | QPSK       | 100     | 56        | 22.83                 | 22.71                    | 22.76                  |                     |
| 20              | 16QAM      | 1       | 1         | 22.92                 | 22.81                    | 22.72                  | 23.7                |
| 20              | 16QAM      | 1       | 53        | 22.81                 | 22.78                    | 22.72                  |                     |
| 20              | 16QAM      | 1       | 104       | 22.81                 | 22.80                    | 22.68                  |                     |
| 20              | 16QAM      | 50      | 0         | 21.95                 | 21.89                    | 21.82                  |                     |
| 20              | 16QAM      | 50      | 28        | 22.36                 | 22.36                    | 22.23                  | 23.7                |
| 20              | 16QAM      | 50      | 56        | 21.93                 | 21.86                    | 21.87                  |                     |
| 20              | 16QAM      | 100     | 0         | 21.96                 | 21.85                    | 21.80                  |                     |
| 20              | 16QAM      | 100     | 56        | 21.96                 | 21.85                    | 21.80                  |                     |
| 20              | 64QAM      | 1       | 1         | 21.80                 | 21.75                    | 21.62                  | 23.2                |
| 20              | 64QAM      | 1       | 53        | 21.79                 | 21.67                    | 21.57                  |                     |
| 20              | 64QAM      | 1       | 104       | 21.72                 | 21.63                    | 21.57                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.39                 | 21.39                    | 21.30                  |                     |
| 20              | 64QAM      | 50      | 28        | 21.88                 | 21.84                    | 21.75                  | 23.2                |
| 20              | 64QAM      | 50      | 56        | 21.44                 | 21.36                    | 21.37                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.44                 | 21.35                    | 21.30                  |                     |
| 20              | 64QAM      | 100     | 56        | 21.44                 | 21.35                    | 21.30                  |                     |
| 20              | 256QAM     | 1       | 1         | 19.44                 | 19.35                    | 19.20                  | 21.2                |
| 20              | 256QAM     | 1       | 53        | 19.35                 | 19.28                    | 19.26                  |                     |
| 20              | 256QAM     | 1       | 104       | 19.24                 | 19.32                    | 19.23                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.38                 | 19.39                    | 19.31                  |                     |
| 20              | 256QAM     | 50      | 28        | 19.84                 | 19.87                    | 19.79                  | 21.2                |
| 20              | 256QAM     | 50      | 56        | 19.35                 | 19.38                    | 19.36                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.42                 | 19.35                    | 19.35                  |                     |
| 20              | 256QAM     | 100     | 56        | 19.42                 | 19.35                    | 19.35                  |                     |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 |                     |
| Frequency (MHz) |            |         |           | 1851.5                | 1880                     | 1907.5                 |                     |
| 15              | PI/2 BPSK  | 1       | 1         | 24.57                 | 24.37                    | 24.39                  | 25.7                |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 |                     |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |
| 10              | PI/2 BPSK  | 1       | 1         | 24.49                 | 24.39                    | 24.31                  | 25.7                |
| Channel         |            |         |           | 370500                | 376000                   | 381500                 |                     |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |
| 5               | PI/2 BPSK  | 1       | 1         | 24.49                 | 24.37                    | 24.37                  | limit               |

| n5              |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant. 1          |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 166800                | 167300                   | 167800                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                     |
| 20              | PV2 BPSK   | 1       | 1         | 23.37                 | 23.27                    | 23.23                  | 25.0                |
| 20              | PV2 BPSK   | 1       | 53        | 23.35                 | 23.36                    | 23.37                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 23.28                 | 23.22                    | 23.19                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 23.30                 | 23.32                    | 23.36                  | 25.0                |
| 20              | PV2 BPSK   | 50      | 28        | 23.29                 | 23.34                    | 23.31                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 23.28                 | 23.26                    | 23.22                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 23.32                 | 23.33                    | 22.90                  | 24.5                |
| 20              | QPSK       | 1       | 1         | 23.30                 | 23.30                    | 23.21                  | 24.5                |
| 20              | QPSK       | 1       | 53        | 23.25                 | 23.32                    | 23.26                  |                     |
| 20              | QPSK       | 1       | 104       | 23.18                 | 23.20                    | 23.22                  |                     |
| 20              | QPSK       | 50      | 0         | 22.89                 | 22.87                    | 22.91                  | 24.5                |
| 20              | QPSK       | 50      | 28        | 23.22                 | 23.31                    | 23.30                  |                     |
| 20              | QPSK       | 50      | 56        | 22.74                 | 22.78                    | 22.75                  |                     |
| 20              | QPSK       | 100     | 0         | 22.87                 | 22.88                    | 22.90                  | 24.0                |
| 20              | 16QAM      | 1       | 1         | 22.86                 | 22.80                    | 22.71                  | 24.0                |
| 20              | 16QAM      | 1       | 53        | 22.77                 | 22.88                    | 22.85                  |                     |
| 20              | 16QAM      | 1       | 104       | 22.77                 | 22.70                    | 22.74                  |                     |
| 20              | 16QAM      | 50      | 0         | 22.39                 | 22.47                    | 22.41                  | 24.0                |
| 20              | 16QAM      | 50      | 28        | 22.74                 | 22.84                    | 22.82                  |                     |
| 20              | 16QAM      | 50      | 56        | 22.30                 | 22.36                    | 22.27                  |                     |
| 20              | 16QAM      | 100     | 0         | 21.88                 | 21.89                    | 21.85                  | 23.0                |
| 20              | 64QAM      | 1       | 1         | 21.41                 | 21.32                    | 21.32                  | 22.5                |
| 20              | 64QAM      | 1       | 53        | 21.44                 | 21.46                    | 21.46                  |                     |
| 20              | 64QAM      | 1       | 104       | 21.33                 | 21.24                    | 21.25                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.38                 | 21.34                    | 21.33                  | 22.5                |
| 20              | 64QAM      | 50      | 28        | 21.43                 | 21.47                    | 21.45                  |                     |
| 20              | 64QAM      | 50      | 56        | 21.34                 | 21.27                    | 21.26                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.37                 | 21.29                    | 21.24                  | 22.5                |
| 20              | 256QAM     | 1       | 1         | 19.65                 | 19.50                    | 19.51                  | 20.5                |
| 20              | 256QAM     | 1       | 53        | 19.59                 | 19.64                    | 19.58                  |                     |
| 20              | 256QAM     | 1       | 104       | 19.55                 | 19.46                    | 19.43                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.36                 | 19.17                    | 19.23                  | 20.5                |
| 20              | 256QAM     | 50      | 28        | 19.35                 | 19.38                    | 19.36                  |                     |
| 20              | 256QAM     | 50      | 56        | 19.19                 | 19.22                    | 19.15                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.35                 | 19.25                    | 19.21                  | 20.5                |
| Channel         |            |         |           | 166300                | 167300                   | 168300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 831.5                 | 836.5                    | 841.5                  |                     |
| 15              | PV2 BPSK   | 1       | 1         | 23.28                 | 23.17                    | 23.22                  | 25.0                |
| Channel         |            |         |           | 166800                | 167300                   | 168800                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                     |
| 10              | PV2 BPSK   | 1       | 1         | 23.34                 | 23.27                    | 23.21                  | 25.0                |
| Channel         |            |         |           | 165300                | 167300                   | 169300                 | Tune-up limit (dBm) |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  |                     |
| 5               | PV2 BPSK   | 1       | 1         | 23.31                 | 23.26                    | 23.18                  | 25.0                |



| n25             |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant 0           |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 370000                | 370000                   | 381000                 | limit               |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1905                   | limit               |
| 20              | PV2 BPSK   | 1       | 1         | 24.51                 | 24.48                    | 24.33                  | 25.7                |
| 20              | PV2 BPSK   | 1       | 53        | 24.50                 | 24.48                    | 24.32                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 24.41                 | 24.44                    | 23.75                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 24.08                 | 24.08                    | 23.72                  | 25.7                |
| 20              | PV2 BPSK   | 50      | 28        | 24.48                 | 24.47                    | 24.28                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 24.07                 | 24.05                    | 23.71                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 24.05                 | 24.03                    | 23.52                  | 25.2                |
| 20              | QPSK       | 1       | 1         | 23.69                 | 23.69                    | 23.53                  | 24.7                |
| 20              | QPSK       | 1       | 53        | 23.66                 | 23.69                    | 23.80                  |                     |
| 20              | QPSK       | 1       | 104       | 23.55                 | 23.54                    | 22.72                  |                     |
| 20              | QPSK       | 50      | 0         | 22.75                 | 22.76                    | 22.74                  | 24.7                |
| 20              | QPSK       | 50      | 28        | 22.79                 | 22.79                    | 22.67                  |                     |
| 20              | QPSK       | 50      | 56        | 22.73                 | 22.71                    | 22.71                  |                     |
| 20              | QPSK       | 100     | 0         | 22.44                 | 22.43                    | 22.23                  | 24.2                |
| 20              | 16QAM      | 1       | 1         | 22.69                 | 22.65                    | 22.45                  | 23.2                |
| 20              | 16QAM      | 1       | 53        | 22.61                 | 22.68                    | 22.47                  |                     |
| 20              | 16QAM      | 1       | 104       | 22.54                 | 22.61                    | 21.79                  |                     |
| 20              | 16QAM      | 50      | 0         | 21.92                 | 21.88                    | 21.32                  | 23.2                |
| 20              | 16QAM      | 50      | 28        | 22.37                 | 22.31                    | 22.11                  |                     |
| 20              | 16QAM      | 50      | 56        | 21.91                 | 21.89                    | 21.41                  |                     |
| 20              | 16QAM      | 100     | 0         | 21.93                 | 21.89                    | 21.37                  | 23.2                |
| 20              | 64QAM      | 1       | 1         | 21.71                 | 21.68                    | 21.46                  | 23.2                |
| 20              | 64QAM      | 1       | 53        | 21.62                 | 21.66                    | 21.48                  |                     |
| 20              | 64QAM      | 1       | 104       | 21.61                 | 21.56                    | 21.21                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.38                 | 21.43                    | 20.83                  | 23.2                |
| 20              | 64QAM      | 50      | 28        | 21.81                 | 21.81                    | 21.59                  |                     |
| 20              | 64QAM      | 50      | 56        | 21.41                 | 21.35                    | 21.22                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.43                 | 21.35                    | 20.88                  | 23.2                |
| 20              | 256QAM     | 1       | 1         | 19.41                 | 19.30                    | 19.22                  | 21.2                |
| 20              | 256QAM     | 1       | 53        | 19.40                 | 19.35                    | 19.21                  |                     |
| 20              | 256QAM     | 1       | 104       | 19.24                 | 19.25                    | 19.20                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.45                 | 19.42                    | 19.23                  | 21.2                |
| 20              | 256QAM     | 50      | 28        | 19.86                 | 19.87                    | 19.61                  |                     |
| 20              | 256QAM     | 50      | 56        | 19.41                 | 19.45                    | 19.21                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.36                 | 19.43                    | 19.22                  | 21.2                |
| Channel         |            |         |           | 371500                | 370000                   | 381500                 | limit               |
| Frequency (MHz) |            |         |           | 1871.5                | 1880                     | 1907.5                 | limit               |
| 15              | PV2 BPSK   | 1       | 1         | 24.47                 | 24.39                    | 24.24                  | 25.7                |
| Channel         |            |         |           | 371000                | 378000                   | 382000                 | limit               |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1910                   | limit               |
| 10              | PV2 BPSK   | 1       | 1         | 24.45                 | 24.45                    | 24.25                  | 25.7                |
| Channel         |            |         |           | 370500                | 370000                   | 370500                 | limit               |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1917.5                 | limit               |
| 5               | PV2 BPSK   | 1       | 1         | 24.50                 | 24.46                    | 24.25                  | 25.7                |

| n66             |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant 0           |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |
| 20              | PV2 BPSK   | 1       | 1         | 24.52                 | 23.76                    | 24.40                  | 25.7                |
| 20              | PV2 BPSK   | 1       | 53        | 24.38                 | 24.21                    | 24.24                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 24.53                 | 24.41                    | 24.27                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 23.97                 | 23.69                    | 23.85                  | 25.7                |
| 20              | PV2 BPSK   | 50      | 28        | 24.43                 | 24.43                    | 24.37                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 23.80                 | 24.08                    | 23.93                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 23.94                 | 23.85                    | 23.91                  | 25.2                |
| 20              | QPSK       | 1       | 1         | 23.84                 | 23.11                    | 23.76                  | 24.7                |
| 20              | QPSK       | 1       | 53        | 23.72                 | 23.56                    | 23.57                  |                     |
| 20              | QPSK       | 1       | 104       | 23.90                 | 23.74                    | 23.84                  |                     |
| 20              | QPSK       | 50      | 0         | 22.87                 | 22.51                    | 22.70                  | 24.7                |
| 20              | QPSK       | 50      | 28        | 23.32                 | 23.35                    | 23.20                  |                     |
| 20              | QPSK       | 50      | 56        | 22.69                 | 22.87                    | 22.79                  |                     |
| 20              | QPSK       | 100     | 0         | 22.76                 | 22.66                    | 22.77                  | 24.2                |
| 20              | 16QAM      | 1       | 1         | 22.69                 | 21.67                    | 22.59                  | 23.7                |
| 20              | 16QAM      | 1       | 53        | 22.49                 | 22.37                    | 22.34                  |                     |
| 20              | 16QAM      | 1       | 104       | 22.71                 | 22.52                    | 22.46                  |                     |
| 20              | 16QAM      | 50      | 0         | 22.00                 | 21.69                    | 21.85                  | 23.7                |
| 20              | 16QAM      | 50      | 28        | 22.43                 | 22.59                    | 22.37                  |                     |
| 20              | 16QAM      | 50      | 56        | 21.88                 | 22.14                    | 21.93                  |                     |
| 20              | 16QAM      | 100     | 0         | 22.04                 | 21.85                    | 21.91                  | 23.7                |
| 20              | 64QAM      | 1       | 1         | 22.27                 | 21.55                    | 22.19                  | 23.2                |
| 20              | 64QAM      | 1       | 53        | 22.14                 | 22.00                    | 22.03                  |                     |
| 20              | 64QAM      | 1       | 104       | 22.27                 | 22.18                    | 21.99                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.43                 | 21.09                    | 21.30                  | 23.2                |
| 20              | 64QAM      | 50      | 28        | 21.85                 | 21.86                    | 21.86                  |                     |
| 20              | 64QAM      | 50      | 56        | 21.29                 | 21.56                    | 21.33                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.38                 | 21.32                    | 21.34                  | 23.2                |
| 20              | 256QAM     | 1       | 1         | 19.74                 | 19.21                    | 19.64                  | 21.2                |
| 20              | 256QAM     | 1       | 53        | 19.58                 | 19.45                    | 19.51                  |                     |
| 20              | 256QAM     | 1       | 104       | 19.78                 | 19.69                    | 19.57                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.33                 | 19.22                    | 19.21                  | 21.2                |
| 20              | 256QAM     | 50      | 28        | 19.74                 | 19.75                    | 19.68                  |                     |
| 20              | 256QAM     | 50      | 56        | 19.20                 | 19.44                    | 19.24                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.29                 | 19.22                    | 19.29                  | 21.2                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |
| 15              | PV2 BPSK   | 1       | 1         | 24.47                 | 23.67                    | 24.35                  | 25.7                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |
| 10              | PV2 BPSK   | 1       | 1         | 24.46                 | 23.76                    | 24.33                  | 25.7                |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |
| 5               | PV2 BPSK   | 1       | 1         | 24.45                 | 23.70                    | 24.31                  | 25.7                |

| n71             |            |         |           |                             |                                |                              |                                                        |
|-----------------|------------|---------|-----------|-----------------------------|--------------------------------|------------------------------|--------------------------------------------------------|
| Ant. 1          |            |         |           |                             |                                |                              |                                                        |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power<br>Low<br>Ch. / Freq. | Power<br>Middle<br>Ch. / Freq. | Power<br>High<br>Ch. / Freq. | Tune-up<br>limit<br>(dBm)<br>tune-up<br>limit<br>(dBm) |
| Channel         |            |         |           | 134500                      | 136100                         | 137600                       |                                                        |
| Frequency (MHz) |            |         |           | 673                         | 680.5                          | 688                          |                                                        |
| 20              | PV2 BPSK   | 1       | 1         | 24.51                       | 24.41                          | 24.50                        | 25.7                                                   |
| 20              | PV2 BPSK   | 1       | 53        | 24.32                       | 24.40                          | 24.41                        |                                                        |
| 20              | PV2 BPSK   | 1       | 104       | 24.31                       | 24.40                          | 24.22                        |                                                        |
| 20              | PV2 BPSK   | 50      | 0         | 23.93                       | 24.35                          | 24.16                        | 25.7                                                   |
| 20              | PV2 BPSK   | 50      | 28        | 24.63                       | 24.45                          | 24.47                        |                                                        |
| 20              | PV2 BPSK   | 50      | 56        | 24.39                       | 24.31                          | 24.20                        |                                                        |
| 20              | PV2 BPSK   | 100     | 0         | 24.20                       | 24.24                          | 24.24                        | 25.2                                                   |
| 20              | QPSK       | 1       | 1         | 23.89                       | 23.89                          | 23.87                        | 24.7                                                   |
| 20              | QPSK       | 1       | 53        | 23.70                       | 23.77                          | 23.74                        |                                                        |
| 20              | QPSK       | 1       | 104       | 23.64                       | 23.75                          | 23.62                        |                                                        |
| 20              | QPSK       | 50      | 0         | 23.10                       | 23.46                          | 23.35                        | 24.7                                                   |
| 20              | QPSK       | 50      | 28        | 23.74                       | 23.65                          | 23.60                        |                                                        |
| 20              | QPSK       | 50      | 56        | 23.52                       | 23.45                          | 23.35                        |                                                        |
| 20              | QPSK       | 100     | 0         | 23.32                       | 23.34                          | 23.41                        | 24.2                                                   |
| 20              | 16QAM      | 1       | 1         | 22.66                       | 22.55                          | 22.51                        | 23.7                                                   |
| 20              | 16QAM      | 1       | 53        | 22.46                       | 22.59                          | 22.61                        |                                                        |
| 20              | 16QAM      | 1       | 104       | 22.41                       | 22.54                          | 22.35                        |                                                        |
| 20              | 16QAM      | 50      | 0         | 22.12                       | 22.54                          | 22.32                        | 23.7                                                   |
| 20              | 16QAM      | 50      | 28        | 22.76                       | 22.63                          | 22.65                        |                                                        |
| 20              | 16QAM      | 50      | 56        | 22.52                       | 22.41                          | 22.38                        |                                                        |
| 20              | 16QAM      | 100     | 0         | 22.31                       | 22.42                          | 22.44                        | 23.2                                                   |
| 20              | 64QAM      | 1       | 1         | 22.22                       | 22.16                          | 22.22                        | 23.2                                                   |
| 20              | 64QAM      | 1       | 53        | 22.09                       | 22.12                          | 22.14                        |                                                        |
| 20              | 64QAM      | 1       | 104       | 22.08                       | 22.14                          | 21.99                        |                                                        |
| 20              | 64QAM      | 50      | 0         | 21.62                       | 21.98                          | 21.85                        | 23.2                                                   |
| 20              | 64QAM      | 50      | 28        | 22.28                       | 22.14                          | 22.10                        |                                                        |
| 20              | 64QAM      | 50      | 56        | 22.09                       | 21.99                          | 21.80                        |                                                        |
| 20              | 64QAM      | 100     | 0         | 21.81                       | 21.89                          | 21.87                        | 23.2                                                   |
| 20              | 256QAM     | 1       | 1         | 19.88                       | 19.73                          | 19.84                        | 21.2                                                   |
| 20              | 256QAM     | 1       | 53        | 19.66                       | 19.79                          | 19.78                        |                                                        |
| 20              | 256QAM     | 1       | 104       | 19.64                       | 19.70                          | 19.55                        |                                                        |
| 20              | 256QAM     | 50      | 0         | 19.67                       | 20.06                          | 19.87                        | 21.2                                                   |
| 20              | 256QAM     | 50      | 28        | 20.34                       | 20.15                          | 20.20                        |                                                        |
| 20              | 256QAM     | 50      | 56        | 20.17                       | 20.06                          | 20.00                        |                                                        |
| 20              | 256QAM     | 100     | 0         | 19.92                       | 19.99                          | 20.04                        | 21.2                                                   |
| Channel         |            |         |           | 134100                      | 136100                         | 138100                       |                                                        |
| Frequency (MHz) |            |         |           | 670.5                       | 680.5                          | 690.5                        |                                                        |
| 15              | PV2 BPSK   | 1       | 1         | 24.50                       | 24.38                          | 24.49                        | 25.7                                                   |
| Channel         |            |         |           | 133600                      | 136100                         | 138600                       |                                                        |
| Frequency (MHz) |            |         |           | 668                         | 680.5                          | 693                          |                                                        |
| 10              | PV2 BPSK   | 1       | 1         | 24.44                       | 24.35                          | 24.42                        | 25.7                                                   |
| Channel         |            |         |           | 133100                      | 136100                         | 139100                       |                                                        |
| Frequency (MHz) |            |         |           | 665.5                       | 680.5                          | 695.5                        |                                                        |
| 5               | PV2 BPSK   | 1       | 1         | 24.45                       | 24.37                          | 24.41                        | 25.7                                                   |

| n12             |            |         |           |                       |                          |                        |                     |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|
| Act 1           |            |         |           |                       |                          |                        |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 141300                | 141500                   | 141700                 |                     |  |
| Frequency (MHz) |            |         |           | 705.5                 | 707.5                    | 709.5                  |                     |  |
| 15              | PI/2 BPSK  | 1       | 1         | 23.31                 | 23.32                    | 23.26                  | 24.7                |  |
| 15              | PI/2 BPSK  | 1       | 40        | 23.20                 | 23.26                    | 23.17                  |                     |  |
| 15              | PI/2 BPSK  | 1       | 77        | 23.11                 | 23.11                    | 23.05                  |                     |  |
| 15              | PI/2 BPSK  | 36      | 0         | 23.24                 | 23.21                    | 23.19                  | 24.7                |  |
| 15              | PI/2 BPSK  | 36      | 22        | 23.25                 | 23.26                    | 23.20                  |                     |  |
| 15              | PI/2 BPSK  | 36      | 43        | 23.16                 | 23.16                    | 23.07                  |                     |  |
| 15              | PI/2 BPSK  | 75      | 0         | 23.25                 | 23.29                    | 23.24                  | 24.2                |  |
| 15              | QPSK       | 1       | 1         | 22.84                 | 22.90                    | 22.86                  | 24.2                |  |
| 15              | QPSK       | 1       | 40        | 22.70                 | 22.76                    | 22.69                  |                     |  |
| 15              | QPSK       | 1       | 77        | 22.66                 | 22.67                    | 22.55                  |                     |  |
| 15              | QPSK       | 36      | 0         | 22.34                 | 22.33                    | 22.33                  | 24.2                |  |
| 15              | QPSK       | 36      | 22        | 22.38                 | 22.42                    | 22.40                  |                     |  |
| 15              | QPSK       | 36      | 43        | 22.35                 | 22.26                    | 22.27                  |                     |  |
| 15              | QPSK       | 75      | 0         | 22.43                 | 22.40                    | 22.38                  | 23.7                |  |
| 15              | 16QAM      | 1       | 1         | 22.32                 | 22.37                    | 22.29                  | 23.7                |  |
| 15              | 16QAM      | 1       | 40        | 22.28                 | 22.35                    | 22.17                  |                     |  |
| 15              | 16QAM      | 1       | 77        | 22.13                 | 22.12                    | 22.06                  |                     |  |
| 15              | 16QAM      | 36      | 0         | 21.72                 | 21.73                    | 21.70                  | 23.7                |  |
| 15              | 16QAM      | 36      | 22        | 21.74                 | 21.75                    | 21.72                  |                     |  |
| 15              | 16QAM      | 36      | 43        | 21.73                 | 21.70                    | 21.74                  |                     |  |
| 15              | 16QAM      | 75      | 0         | 21.49                 | 21.58                    | 21.44                  | 22.7                |  |
| 15              | 64QAM      | 1       | 1         | 21.13                 | 21.15                    | 21.13                  | 22.2                |  |
| 15              | 64QAM      | 1       | 40        | 21.07                 | 21.15                    | 21.01                  |                     |  |
| 15              | 64QAM      | 1       | 77        | 20.92                 | 20.99                    | 20.94                  |                     |  |
| 15              | 64QAM      | 36      | 0         | 20.96                 | 20.93                    | 20.90                  | 22.2                |  |
| 15              | 64QAM      | 36      | 22        | 20.96                 | 20.97                    | 20.93                  |                     |  |
| 15              | 64QAM      | 36      | 43        | 20.88                 | 20.92                    | 20.87                  |                     |  |
| 15              | 64QAM      | 75      | 0         | 21.04                 | 21.02                    | 21.04                  | 22.2                |  |
| 15              | 256QAM     | 1       | 1         | 18.76                 | 18.73                    | 18.70                  | 20.2                |  |
| 15              | 256QAM     | 1       | 40        | 18.63                 | 18.66                    | 18.64                  |                     |  |
| 15              | 256QAM     | 1       | 77        | 18.52                 | 18.54                    | 18.49                  |                     |  |
| 15              | 256QAM     | 36      | 0         | 19.12                 | 19.02                    | 19.02                  | 20.2                |  |
| 15              | 256QAM     | 36      | 22        | 19.10                 | 19.13                    | 19.05                  |                     |  |
| 15              | 256QAM     | 36      | 43        | 18.96                 | 19.02                    | 18.94                  |                     |  |
| 15              | 256QAM     | 75      | 0         | 19.10                 | 19.19                    | 19.10                  | 20.2                |  |
| Channel         |            |         |           | 140800                | 141500                   | 142200                 | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 704                   | 707.5                    | 711                    |                     |  |
| 10              | PI/2 BPSK  | 1       | 1         | 23.30                 | 23.23                    | 23.24                  | 24.7                |  |
| Channel         |            |         |           | 140300                | 141500                   | 142700                 |                     |  |
| Frequency (MHz) |            |         |           | 701.5                 | 707.5                    | 713.5                  |                     |  |
| 5               | PI/2 BPSK  | 1       | 1         | 23.29                 | 23.24                    | 23.19                  | 24.7                |  |

| n5              |            |         |           |                       |                          |                        |                                |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|--------------------------------|
| Act 1           |            |         |           |                       |                          |                        |                                |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) (min./max) |
| Channel         |            |         |           | 166800                | 167300                   | 167800                 |                                |
| Frequency (MHz) |            |         |           | 834                   | 836.5                    | 839                    |                                |
| 20              | PI/2 BPSK  | 1       | 1         | 22.63                 | 22.49                    | 22.47                  | 24.0                           |
| 20              | PI/2 BPSK  | 1       | 53        | 22.55                 | 22.78                    | 22.65                  |                                |
| 20              | PI/2 BPSK  | 1       | 104       | 22.51                 | 22.50                    | 22.48                  |                                |
| 20              | PI/2 BPSK  | 50      | 0         | 22.55                 | 22.59                    | 22.51                  |                                |
| 20              | PI/2 BPSK  | 50      | 28        | 22.58                 | 22.60                    | 22.59                  | 24.0                           |
| 20              | PI/2 BPSK  | 50      | 56        | 22.50                 | 22.56                    | 22.43                  |                                |
| 20              | PI/2 BPSK  | 100     | 0         | 22.54                 | 22.55                    | 22.14                  |                                |
| 20              | QPSK       | 1       | 1         | 22.56                 | 22.51                    | 22.49                  |                                |
| 20              | QPSK       | 1       | 53        | 22.52                 | 22.52                    | 22.57                  | 24.0                           |
| 20              | QPSK       | 1       | 104       | 22.43                 | 22.47                    | 22.45                  |                                |
| 20              | QPSK       | 50      | 0         | 22.51                 | 22.49                    | 22.58                  |                                |
| 20              | QPSK       | 50      | 28        | 22.88                 | 22.68                    | 22.90                  |                                |
| 20              | QPSK       | 50      | 56        | 22.37                 | 22.43                    | 22.41                  | 24.0                           |
| 20              | QPSK       | 100     | 0         | 22.48                 | 22.50                    | 22.54                  |                                |
| 20              | 16QAM      | 1       | 1         | 22.81                 | 22.71                    | 22.61                  |                                |
| 20              | 16QAM      | 1       | 53        | 22.70                 | 22.80                    | 22.75                  |                                |
| 20              | 16QAM      | 1       | 104       | 22.63                 | 22.64                    | 22.60                  | 24.0                           |
| 20              | 16QAM      | 50      | 0         | 21.91                 | 22.07                    | 21.96                  |                                |
| 20              | 16QAM      | 50      | 28        | 22.30                 | 22.43                    | 22.41                  |                                |
| 20              | 16QAM      | 50      | 56        | 21.86                 | 21.96                    | 21.84                  |                                |
| 20              | 16QAM      | 100     | 0         | 21.88                 | 21.89                    | 21.85                  | 23.0                           |
| 20              | 64QAM      | 1       | 1         | 21.41                 | 21.32                    | 21.32                  |                                |
| 20              | 64QAM      | 1       | 53        | 21.44                 | 21.48                    | 21.46                  |                                |
| 20              | 64QAM      | 1       | 104       | 21.33                 | 21.24                    | 21.25                  |                                |
| 20              | 64QAM      | 50      | 0         | 21.38                 | 21.34                    | 21.33                  | 22.5                           |
| 20              | 64QAM      | 50      | 28        | 21.43                 | 21.47                    | 21.45                  |                                |
| 20              | 64QAM      | 50      | 56        | 21.34                 | 21.27                    | 21.26                  |                                |
| 20              | 64QAM      | 100     | 0         | 21.37                 | 21.29                    | 21.24                  |                                |
| 20              | 256QAM     | 1       | 1         | 19.65                 | 19.50                    | 19.51                  | 20.5                           |
| 20              | 256QAM     | 1       | 53        | 19.59                 | 19.64                    | 19.58                  |                                |
| 20              | 256QAM     | 1       | 104       | 19.55                 | 19.46                    | 19.43                  |                                |
| 20              | 256QAM     | 50      | 0         | 19.70                 | 19.50                    | 19.62                  |                                |
| 20              | 256QAM     | 50      | 28        | 19.69                 | 19.75                    | 19.69                  | 20.5                           |
| 20              | 256QAM     | 50      | 56        | 19.55                 | 19.59                    | 19.54                  |                                |
| 20              | 256QAM     | 100     | 0         | 19.66                 | 19.59                    | 19.51                  |                                |
| 20              | 256QAM     | 100     | 0         | 19.66                 | 19.59                    | 19.51                  |                                |
| Channel         |            |         |           | 168300                | 167300                   | 168300                 |                                |
| Frequency (MHz) |            |         |           | 831.5                 | 835.5                    | 841.5                  |                                |
| 15              | PI/2 BPSK  | 1       | 1         | 22.62                 | 22.46                    | 22.44                  | 24.0                           |
| Channel         |            |         |           | 166800                | 167300                   | 166800                 |                                |
| Frequency (MHz) |            |         |           | 829                   | 836.5                    | 844                    |                                |
| 10              | PI/2 BPSK  | 1       | 1         | 22.55                 | 22.43                    | 22.38                  | 24.0                           |
| Channel         |            |         |           | 163300                | 167300                   | 163300                 |                                |
| Frequency (MHz) |            |         |           | 826.5                 | 836.5                    | 846.5                  |                                |
| 5               | PI/2 BPSK  | 1       | 1         | 23.31                 | 23.26                    | 23.18                  | limit                          |

| n2              |            |         |           |                       |                          |                        |                               |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-------------------------------|
| Act 2           |            |         |           |                       |                          |                        |                               |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) (min-max) |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 |                               |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                               |
| 20              | PI/2 BPSK  | 1       | 1         | 23.08                 | 23.10                    | 23.10                  | 24.5                          |
| 20              | PI/2 BPSK  | 1       | 53        | 23.12                 | 23.13                    | 23.11                  |                               |
| 20              | PI/2 BPSK  | 1       | 104       | 23.06                 | 23.08                    | 23.07                  |                               |
| 20              | PI/2 BPSK  | 50      | 0         | 23.06                 | 23.08                    | 22.97                  | 24.5                          |
| 20              | PI/2 BPSK  | 50      | 28        | 23.13                 | 23.18                    | 23.08                  |                               |
| 20              | PI/2 BPSK  | 50      | 56        | 23.01                 | 23.06                    | 23.05                  |                               |
| 20              | PI/2 BPSK  | 100     | 0         | 23.10                 | 23.06                    | 23.01                  | 24.0                          |
| 20              | QPSK       | 1       | 1         | 22.93                 | 22.99                    | 22.90                  | 24.0                          |
| 20              | QPSK       | 1       | 53        | 23.01                 | 23.01                    | 22.98                  |                               |
| 20              | QPSK       | 1       | 104       | 22.94                 | 22.91                    | 22.97                  |                               |
| 20              | QPSK       | 50      | 0         | 22.90                 | 22.85                    | 22.81                  | 24.0                          |
| 20              | QPSK       | 50      | 28        | 22.92                 | 22.93                    | 22.96                  |                               |
| 20              | QPSK       | 50      | 56        | 22.88                 | 22.86                    | 22.93                  |                               |
| 20              | QPSK       | 100     | 0         | 22.91                 | 22.91                    | 22.90                  | 24.0                          |
| 20              | 16QAM      | 1       | 1         | 22.62                 | 22.53                    | 22.52                  | 23.5                          |
| 20              | 16QAM      | 1       | 53        | 22.52                 | 22.59                    | 22.59                  |                               |
| 20              | 16QAM      | 1       | 104       | 22.53                 | 22.47                    | 22.59                  |                               |
| 20              | 16QAM      | 50      | 0         | 22.26                 | 22.24                    | 22.21                  | 23.5                          |
| 20              | 16QAM      | 50      | 28        | 22.25                 | 22.20                    | 22.27                  |                               |
| 20              | 16QAM      | 50      | 56        | 22.16                 | 22.24                    | 22.26                  |                               |
| 20              | 16QAM      | 100     | 0         | 22.29                 | 22.22                    | 22.18                  | 23.0                          |
| 20              | 64QAM      | 1       | 1         | 21.82                 | 21.86                    | 21.80                  | 23.0                          |
| 20              | 64QAM      | 1       | 53        | 21.85                 | 21.90                    | 21.87                  |                               |
| 20              | 64QAM      | 1       | 104       | 21.79                 | 21.84                    | 21.84                  |                               |
| 20              | 64QAM      | 50      | 0         | 21.75                 | 21.79                    | 21.73                  | 23.0                          |
| 20              | 64QAM      | 50      | 28        | 21.79                 | 21.87                    | 21.87                  |                               |
| 20              | 64QAM      | 50      | 56        | 21.79                 | 21.73                    | 21.86                  |                               |
| 20              | 64QAM      | 100     | 0         | 21.84                 | 21.80                    | 21.86                  | 23.0                          |
| 20              | 256QAM     | 1       | 1         | 19.45                 | 19.40                    | 19.35                  | 20.5                          |
| 20              | 256QAM     | 1       | 53        | 19.48                 | 19.52                    | 19.48                  |                               |
| 20              | 256QAM     | 1       | 104       | 19.37                 | 19.34                    | 19.43                  |                               |
| 20              | 256QAM     | 50      | 0         | 19.45                 | 19.35                    | 19.45                  | 20.5                          |
| 20              | 256QAM     | 50      | 28        | 19.50                 | 19.52                    | 19.46                  |                               |
| 20              | 256QAM     | 50      | 56        | 19.42                 | 19.40                    | 19.41                  |                               |
| 20              | 256QAM     | 100     | 0         | 19.43                 | 19.46                    | 19.39                  | 20.5                          |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 |                               |
| Frequency (MHz) |            |         |           | 1851.5                | 1880                     | 1903.5                 |                               |
| 15              | PI/2 BPSK  | 1       | 1         | 23.05                 | 23.12                    | 23.03                  | 24.5                          |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 |                               |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                               |
| 10              | PI/2 BPSK  | 1       | 1         | 23.13                 | 23.10                    | 23.06                  | 24.5                          |
| Channel         |            |         |           | 370500                | 375000                   | 379500                 |                               |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                               |
| 5               | PI/2 BPSK  | 1       | 1         | 23.08                 | 23.07                    | 23.08                  | 24.5                          |

| n25             |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant. 2          |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 372000                | 376000                   | 381000                 | limit               |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1905                   | limit               |
| 20              | PV2 BPSK   | 1       | 1         | 23.09                 | 23.11                    | 23.08                  | 24.5                |
| 20              | PV2 BPSK   | 1       | 53        | 23.11                 | 23.15                    | 23.12                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 23.07                 | 23.04                    | 23.06                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 23.07                 | 23.05                    | 23.02                  | 24.5                |
| 20              | PV2 BPSK   | 50      | 28        | 23.10                 | 23.13                    | 23.12                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 23.05                 | 23.08                    | 23.06                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 23.07                 | 23.07                    | 23.05                  | 24.0                |
| 20              | QPSK       | 1       | 1         | 22.90                 | 22.95                    | 22.91                  | 24.0                |
| 20              | QPSK       | 1       | 53        | 22.96                 | 23.00                    | 22.96                  |                     |
| 20              | QPSK       | 1       | 104       | 22.89                 | 22.92                    | 22.95                  |                     |
| 20              | QPSK       | 50      | 0         | 22.95                 | 22.89                    | 22.82                  | 24.0                |
| 20              | QPSK       | 50      | 28        | 22.95                 | 22.96                    | 22.93                  |                     |
| 20              | QPSK       | 50      | 56        | 22.87                 | 22.91                    | 22.94                  |                     |
| 20              | QPSK       | 100     | 0         | 22.95                 | 22.94                    | 22.89                  | 24.0                |
| 20              | 16QAM      | 1       | 1         | 22.50                 | 22.54                    | 22.48                  | 23.5                |
| 20              | 16QAM      | 1       | 53        | 22.51                 | 22.60                    | 22.62                  |                     |
| 20              | 16QAM      | 1       | 104       | 22.52                 | 22.52                    | 22.54                  |                     |
| 20              | 16QAM      | 50      | 0         | 22.23                 | 22.20                    | 22.16                  | 23.5                |
| 20              | 16QAM      | 50      | 28        | 22.26                 | 22.25                    | 22.26                  |                     |
| 20              | 16QAM      | 50      | 56        | 22.18                 | 22.19                    | 22.23                  |                     |
| 20              | 16QAM      | 100     | 0         | 22.24                 | 22.26                    | 22.20                  | 23.0                |
| 20              | 64QAM      | 1       | 1         | 21.85                 | 21.91                    | 21.81                  | 23.0                |
| 20              | 64QAM      | 1       | 53        | 21.83                 | 21.89                    | 21.84                  |                     |
| 20              | 64QAM      | 1       | 104       | 21.84                 | 21.84                    | 21.81                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.80                 | 21.76                    | 21.73                  | 23.0                |
| 20              | 64QAM      | 50      | 28        | 21.84                 | 21.91                    | 21.86                  |                     |
| 20              | 64QAM      | 50      | 56        | 21.75                 | 21.78                    | 21.82                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.87                 | 21.83                    | 21.81                  | 23.0                |
| 20              | 256QAM     | 1       | 1         | 19.40                 | 19.45                    | 19.40                  | 20.5                |
| 20              | 256QAM     | 1       | 53        | 19.49                 | 19.54                    | 19.47                  |                     |
| 20              | 256QAM     | 1       | 104       | 19.39                 | 19.34                    | 19.42                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.42                 | 19.37                    | 19.40                  | 20.5                |
| 20              | 256QAM     | 50      | 28        | 19.48                 | 19.50                    | 19.50                  |                     |
| 20              | 256QAM     | 50      | 56        | 19.45                 | 19.39                    | 19.43                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.40                 | 19.46                    | 19.40                  | 20.5                |
| Channel         |            |         |           | 371500                | 376000                   | 381500                 | limit               |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1907.5                 | limit               |
| 15              | PV2 BPSK   | 1       | 1         | 23.08                 | 23.10                    | 23.02                  | 24.5                |
| Channel         |            |         |           | 371000                | 376000                   | 382000                 | limit               |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1910                   | limit               |
| 10              | PV2 BPSK   | 1       | 1         | 23.03                 | 23.01                    | 23.02                  | 24.5                |
| Channel         |            |         |           | 370500                | 376000                   | 382500                 | limit               |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1917.5                 | limit               |
| 5               | PV2 BPSK   | 1       | 1         | 23.09                 | 23.05                    | 23.07                  | 24.5                |

| n2              |            |         |           |                       |                          |                              |                     |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------------|---------------------|--|
| Act 0           |            |         |           |                       |                          |                              |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq.       | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 372000                | 376000                   | 380000                       | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                         |                     |  |
| 20              | PI/2 BPSK  | 1       | 1         | 17.77                 | 17.69                    | 17.71                        | 19.2                |  |
| 20              | PI/2 BPSK  | 1       | 53        | 17.79                 | 17.67                    | 17.78                        |                     |  |
| 20              | PI/2 BPSK  | 1       | 104       | 17.76                 | 17.75                    | 17.69                        |                     |  |
| 20              | PI/2 BPSK  | 50      | 0         | 17.73                 | 17.84                    | 17.74                        |                     |  |
| 20              | PI/2 BPSK  | 50      | 28        | 17.87                 | 17.86                    | 17.83                        | 19.2                |  |
| 20              | PI/2 BPSK  | 50      | 56        | 17.61                 | 17.57                    | 17.68                        |                     |  |
| 20              | PI/2 BPSK  | 100     | 0         | 17.70                 | 17.71                    | 17.73                        |                     |  |
| 20              | QPSK       | 1       | 1         | 17.78                 | 17.73                    | 17.76                        | 19.2                |  |
| 20              | QPSK       | 1       | 53        | 17.79                 | 17.67                    | 17.83                        |                     |  |
| 20              | QPSK       | 1       | 104       | 17.77                 | 17.70                    | 17.74                        |                     |  |
| 20              | QPSK       | 50      | 0         | 17.68                 | 17.88                    | 17.77                        |                     |  |
| 20              | QPSK       | 50      | 28        | 17.84                 | 17.85                    | 17.84                        | 19.2                |  |
| 20              | QPSK       | 50      | 56        | 17.57                 | 17.58                    | 17.69                        |                     |  |
| 20              | QPSK       | 100     | 0         | 17.71                 | 17.73                    | 17.72                        |                     |  |
| 20              | 16QAM      | 1       | 1         | 17.74                 | 17.72                    | 17.75                        | 19.2                |  |
| 20              | 16QAM      | 1       | 53        | 17.82                 | 17.72                    | 17.76                        |                     |  |
| 20              | 16QAM      | 1       | 104       | 17.81                 | 17.77                    | 17.74                        |                     |  |
| 20              | 16QAM      | 50      | 0         | 17.71                 | 17.79                    | 17.73                        |                     |  |
| 20              | 16QAM      | 50      | 28        | 17.82                 | 17.85                    | 17.81                        | 19.2                |  |
| 20              | 16QAM      | 50      | 56        | 17.63                 | 17.58                    | 17.70                        |                     |  |
| 20              | 16QAM      | 100     | 0         | 17.66                 | 17.66                    | 17.71                        |                     |  |
| 20              | 64QAM      | 1       | 1         | 17.72                 | 17.69                    | 17.71                        | 19.2                |  |
| 20              | 64QAM      | 1       | 53        | 17.81                 | 17.71                    | 17.73                        |                     |  |
| 20              | 64QAM      | 1       | 104       | 17.72                 | 17.78                    | 17.70                        |                     |  |
| 20              | 64QAM      | 50      | 0         | 17.68                 | 17.83                    | 17.78                        |                     |  |
| 20              | 64QAM      | 50      | 28        | 17.80                 | 17.85                    | 17.78                        | 19.2                |  |
| 20              | 64QAM      | 50      | 56        | 17.66                 | 17.58                    | 17.69                        |                     |  |
| 20              | 64QAM      | 100     | 0         | 17.71                 | 17.75                    | 17.77                        |                     |  |
| 20              | 256QAM     | 1       | 1         | 17.80                 | 17.70                    | 17.67                        | 19.2                |  |
| 20              | 256QAM     | 1       | 53        | 17.83                 | 17.70                    | 17.73                        |                     |  |
| 20              | 256QAM     | 1       | 104       | 17.71                 | 17.72                    | 17.71                        |                     |  |
| 20              | 256QAM     | 50      | 0         | 17.74                 | 17.85                    | 17.72                        |                     |  |
| 20              | 256QAM     | 50      | 28        | 17.86                 | 17.82                    | 17.86                        | 19.2                |  |
| 20              | 256QAM     | 50      | 56        | 17.64                 | 17.62                    | 17.71                        |                     |  |
| 20              | 256QAM     | 100     | 0         | 17.66                 | 17.73                    | 17.72                        |                     |  |
| Channel         |            |         |           | 371500                | 376000                   | 380500                       | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1902.5                       |                     |  |
| 15              | PI/2 BPSK  | 1       | 1         | 17.80                 | 17.71                    | 17.69                        | 19.2                |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                       | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905 <th colspan="2"></th>   |                     |  |
| 10              | PI/2 BPSK  | 1       | 1         | 17.82                 | 17.69                    | 17.72                        | 19.2                |  |
| Channel         |            |         |           | 370500                | 376000                   | 381500                       | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5 <th colspan="2"></th> |                     |  |
| 5               | PI/2 BPSK  | 1       | 1         | 17.79                 | 17.66                    | 17.74                        |                     |  |



| n25             |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant 0           |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 375000                | 376000                   | 381000                 | limit               |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1905                   | limit               |
| 20              | PV2 BPSK   | 1       | 1         | 17.75                 | 17.70                    | 17.74                  | 19.2                |
| 20              | PV2 BPSK   | 1       | 53        | 17.76                 | 17.71                    | 17.75                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 17.74                 | 17.70                    | 17.72                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 17.76                 | 17.70                    | 17.78                  | 19.2                |
| 20              | PV2 BPSK   | 50      | 28        | 17.83                 | 17.82                    | 17.81                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 17.64                 | 17.62                    | 17.65                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 17.70                 | 17.69                    | 17.69                  | 19.2                |
| 20              | QPSK       | 1       | 1         | 17.75                 | 17.67                    | 17.77                  | 19.2                |
| 20              | QPSK       | 1       | 53        | 17.73                 | 17.75                    | 17.70                  |                     |
| 20              | QPSK       | 1       | 104       | 17.73                 | 17.69                    | 17.77                  |                     |
| 20              | QPSK       | 50      | 0         | 17.80                 | 17.74                    | 17.77                  | 19.2                |
| 20              | QPSK       | 50      | 28        | 17.78                 | 17.87                    | 17.85                  |                     |
| 20              | QPSK       | 50      | 56        | 17.68                 | 17.64                    | 17.61                  |                     |
| 20              | QPSK       | 100     | 0         | 17.69                 | 17.69                    | 17.64                  | 19.2                |
| 20              | 16QAM      | 1       | 1         | 17.77                 | 17.75                    | 17.77                  | 19.2                |
| 20              | 16QAM      | 1       | 53        | 17.79                 | 17.70                    | 17.76                  |                     |
| 20              | 16QAM      | 1       | 104       | 17.77                 | 17.75                    | 17.74                  |                     |
| 20              | 16QAM      | 50      | 0         | 17.76                 | 17.84                    | 17.81                  | 19.2                |
| 20              | 16QAM      | 50      | 28        | 17.84                 | 17.77                    | 17.84                  |                     |
| 20              | 16QAM      | 50      | 56        | 17.65                 | 17.64                    | 17.66                  |                     |
| 20              | 16QAM      | 100     | 0         | 17.69                 | 17.65                    | 17.74                  | 19.2                |
| 20              | 64QAM      | 1       | 1         | 17.79                 | 17.70                    | 17.69                  | 19.2                |
| 20              | 64QAM      | 1       | 53        | 17.77                 | 17.68                    | 17.80                  |                     |
| 20              | 64QAM      | 1       | 104       | 17.74                 | 17.73                    | 17.77                  |                     |
| 20              | 64QAM      | 50      | 0         | 17.78                 | 17.76                    | 17.83                  | 19.2                |
| 20              | 64QAM      | 50      | 28        | 17.81                 | 17.87                    | 17.78                  |                     |
| 20              | 64QAM      | 50      | 56        | 17.62                 | 17.66                    | 17.63                  |                     |
| 20              | 64QAM      | 100     | 0         | 17.69                 | 17.73                    | 17.74                  | 19.2                |
| 20              | 256QAM     | 1       | 1         | 17.77                 | 17.68                    | 17.76                  | 19.2                |
| 20              | 256QAM     | 1       | 53        | 17.76                 | 17.75                    | 17.80                  |                     |
| 20              | 256QAM     | 1       | 104       | 17.74                 | 17.72                    | 17.72                  |                     |
| 20              | 256QAM     | 50      | 0         | 17.79                 | 17.78                    | 17.81                  | 19.2                |
| 20              | 256QAM     | 50      | 28        | 17.82                 | 17.85                    | 17.86                  |                     |
| 20              | 256QAM     | 50      | 56        | 17.62                 | 17.60                    | 17.70                  |                     |
| 20              | 256QAM     | 100     | 0         | 17.75                 | 17.68                    | 17.74                  | 19.2                |
| Channel         |            |         |           | 371500                | 376000                   | 381500                 | limit               |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1927.5                 | limit               |
| 15              | PV2 BPSK   | 1       | 1         | 17.75                 | 17.71                    | 17.70                  | 19.2                |
| Channel         |            |         |           | 371000                | 376000                   | 382000                 | limit               |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1910                   | limit               |
| 10              | PV2 BPSK   | 1       | 1         | 17.73                 | 17.72                    | 17.71                  | 19.2                |
| Channel         |            |         |           | 370500                | 376000                   | 382500                 | limit               |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1912.5                 | limit               |
| 5               | PV2 BPSK   | 1       | 1         | 17.80                 | 17.68                    | 17.75                  | 19.2                |

| n66             |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant 0           |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |
| 20              | PV2 BPSK   | 1       | 1         | 19.20                 | 19.13                    | 19.18                  | 20.9                |
| 20              | PV2 BPSK   | 1       | 53        | 19.02                 | 19.06                    | 19.03                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 19.09                 | 19.10                    | 19.07                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 19.14                 | 19.01                    | 19.00                  | 20.9                |
| 20              | PV2 BPSK   | 50      | 28        | 19.16                 | 19.14                    | 19.12                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 19.01                 | 19.04                    | 19.02                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 19.04                 | 19.01                    | 19.00                  | 20.9                |
| 20              | QPSK       | 1       | 1         | 19.13                 | 19.05                    | 19.09                  | 20.9                |
| 20              | QPSK       | 1       | 53        | 19.06                 | 19.06                    | 19.02                  |                     |
| 20              | QPSK       | 1       | 104       | 19.04                 | 19.06                    | 19.04                  |                     |
| 20              | QPSK       | 50      | 0         | 19.02                 | 19.00                    | 18.80                  | 20.9                |
| 20              | QPSK       | 50      | 28        | 18.97                 | 18.96                    | 18.95                  |                     |
| 20              | QPSK       | 50      | 56        | 18.92                 | 18.91                    | 18.91                  |                     |
| 20              | QPSK       | 100     | 0         | 18.90                 | 18.91                    | 18.90                  | 20.9                |
| 20              | 16QAM      | 1       | 1         | 19.09                 | 18.93                    | 19.05                  | 20.9                |
| 20              | 16QAM      | 1       | 53        | 18.91                 | 18.90                    | 18.88                  |                     |
| 20              | 16QAM      | 1       | 104       | 18.99                 | 18.94                    | 18.92                  |                     |
| 20              | 16QAM      | 50      | 0         | 19.13                 | 18.92                    | 19.00                  | 20.9                |
| 20              | 16QAM      | 50      | 28        | 19.12                 | 19.09                    | 19.10                  |                     |
| 20              | 16QAM      | 50      | 56        | 18.96                 | 18.95                    | 18.96                  |                     |
| 20              | 16QAM      | 100     | 0         | 18.97                 | 18.93                    | 18.99                  | 20.9                |
| 20              | 64QAM      | 1       | 1         | 19.31                 | 19.28                    | 19.35                  | 20.9                |
| 20              | 64QAM      | 1       | 53        | 19.18                 | 19.23                    | 19.20                  |                     |
| 20              | 64QAM      | 1       | 104       | 19.28                 | 19.22                    | 19.25                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.00                 | 18.90                    | 18.91                  | 20.9                |
| 20              | 64QAM      | 50      | 28        | 19.04                 | 18.95                    | 19.02                  |                     |
| 20              | 64QAM      | 50      | 56        | 18.91                 | 18.93                    | 18.92                  |                     |
| 20              | 64QAM      | 100     | 0         | 18.93                 | 18.91                    | 18.90                  | 20.9                |
| 20              | 256QAM     | 1       | 1         | 18.93                 | 18.93                    | 18.91                  | 20.9                |
| 20              | 256QAM     | 1       | 53        | 18.90                 | 18.91                    | 18.90                  |                     |
| 20              | 256QAM     | 1       | 104       | 18.90                 | 18.90                    | 18.90                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.10                 | 19.00                    | 18.94                  | 20.9                |
| 20              | 256QAM     | 50      | 28        | 19.13                 | 19.12                    | 19.02                  |                     |
| 20              | 256QAM     | 50      | 56        | 18.97                 | 19.00                    | 18.96                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.00                 | 18.98                    | 18.97                  | 20.9                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1772.5                 |                     |
| 15              | PV2 BPSK   | 1       | 1         | 19.19                 | 19.11                    | 19.14                  | 20.9                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |
| 10              | PV2 BPSK   | 1       | 1         | 19.15                 | 19.15                    | 19.19                  | 20.9                |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |
| 5               | PV2 BPSK   | 1       | 1         | 19.22                 | 19.13                    | 19.16                  | 20.9                |



| n2              |            |         |           |                       |                          |                        |                               |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-------------------------------|
| Act 2           |            |         |           |                       |                          |                        |                               |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) (min-max) |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 |                               |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                               |
| 20              | PI/2 BPSK  | 1       | 1         | 23.08                 | 23.10                    | 23.10                  | 23.7                          |
| 20              | PI/2 BPSK  | 1       | 53        | 23.12                 | 23.13                    | 23.11                  |                               |
| 20              | PI/2 BPSK  | 1       | 104       | 23.06                 | 23.08                    | 23.07                  |                               |
| 20              | PI/2 BPSK  | 50      | 0         | 23.06                 | 23.08                    | 22.97                  |                               |
| 20              | PI/2 BPSK  | 50      | 28        | 23.13                 | 23.18                    | 23.08                  | 23.7                          |
| 20              | PI/2 BPSK  | 50      | 56        | 23.01                 | 23.06                    | 23.05                  |                               |
| 20              | PI/2 BPSK  | 100     | 0         | 23.10                 | 23.06                    | 23.01                  |                               |
| 20              | QPSK       | 1       | 1         | 22.93                 | 22.99                    | 22.90                  |                               |
| 20              | QPSK       | 1       | 53        | 23.01                 | 23.01                    | 22.98                  | 23.7                          |
| 20              | QPSK       | 1       | 104       | 22.94                 | 22.91                    | 22.97                  |                               |
| 20              | QPSK       | 50      | 0         | 22.90                 | 22.85                    | 22.81                  |                               |
| 20              | QPSK       | 50      | 28        | 22.92                 | 22.93                    | 22.96                  |                               |
| 20              | QPSK       | 50      | 56        | 22.88                 | 22.86                    | 22.93                  | 23.7                          |
| 20              | QPSK       | 100     | 0         | 22.91                 | 22.91                    | 22.90                  |                               |
| 20              | 16QAM      | 1       | 1         | 22.62                 | 22.53                    | 22.52                  |                               |
| 20              | 16QAM      | 1       | 53        | 22.52                 | 22.59                    | 22.59                  |                               |
| 20              | 16QAM      | 1       | 104       | 22.53                 | 22.47                    | 22.59                  | 23.2                          |
| 20              | 16QAM      | 50      | 0         | 22.26                 | 22.24                    | 22.21                  |                               |
| 20              | 16QAM      | 50      | 28        | 22.25                 | 22.20                    | 22.27                  |                               |
| 20              | 16QAM      | 50      | 56        | 22.16                 | 22.24                    | 22.26                  |                               |
| 20              | 16QAM      | 100     | 0         | 22.29                 | 22.22                    | 22.18                  | 23.2                          |
| 20              | 64QAM      | 1       | 1         | 21.82                 | 21.86                    | 21.80                  |                               |
| 20              | 64QAM      | 1       | 53        | 21.85                 | 21.90                    | 21.87                  |                               |
| 20              | 64QAM      | 1       | 104       | 21.79                 | 21.84                    | 21.84                  |                               |
| 20              | 64QAM      | 50      | 0         | 21.75                 | 21.79                    | 21.73                  | 22.7                          |
| 20              | 64QAM      | 50      | 28        | 21.79                 | 21.87                    | 21.87                  |                               |
| 20              | 64QAM      | 50      | 56        | 21.79                 | 21.73                    | 21.86                  |                               |
| 20              | 64QAM      | 100     | 0         | 21.84                 | 21.80                    | 21.86                  |                               |
| 20              | 256QAM     | 1       | 1         | 19.45                 | 19.40                    | 19.35                  | 20.2                          |
| 20              | 256QAM     | 1       | 53        | 19.48                 | 19.52                    | 19.48                  |                               |
| 20              | 256QAM     | 1       | 104       | 19.37                 | 19.34                    | 19.43                  |                               |
| 20              | 256QAM     | 50      | 0         | 19.45                 | 19.35                    | 19.45                  |                               |
| 20              | 256QAM     | 50      | 28        | 19.50                 | 19.52                    | 19.46                  | 20.2                          |
| 20              | 256QAM     | 50      | 56        | 19.42                 | 19.40                    | 19.41                  |                               |
| 20              | 256QAM     | 100     | 0         | 19.43                 | 19.46                    | 19.39                  |                               |
| 20              | 256QAM     | 100     | 0         | 19.43                 | 19.46                    | 19.39                  |                               |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 |                               |
| Frequency (MHz) |            |         |           | 1851.5                | 1880                     | 1903.5                 |                               |
| 15              | PI/2 BPSK  | 1       | 1         | 23.05                 | 23.12                    | 23.03                  | 23.7                          |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 |                               |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                               |
| 10              | PI/2 BPSK  | 1       | 1         | 23.13                 | 23.10                    | 23.06                  | 23.7                          |
| Channel         |            |         |           | 370500                | 375000                   | 379500                 |                               |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                               |
| 5               | PI/2 BPSK  | 1       | 1         | 23.08                 | 23.07                    | 23.08                  | 23.7                          |

| n25             |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant. 2          |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 375000                | 376000                   | 381000                 | limit               |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1905                   | limit               |
| 20              | PV2 BPSK   | 1       | 1         | 23.09                 | 23.11                    | 23.08                  | 23.7                |
| 20              | PV2 BPSK   | 1       | 53        | 23.11                 | 23.15                    | 23.12                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 23.07                 | 23.04                    | 23.06                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 23.07                 | 23.05                    | 23.02                  | 23.7                |
| 20              | PV2 BPSK   | 50      | 28        | 23.10                 | 23.13                    | 23.12                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 23.05                 | 23.08                    | 23.06                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 23.07                 | 23.07                    | 23.05                  | 23.7                |
| 20              | QPSK       | 1       | 1         | 22.90                 | 22.95                    | 22.91                  | 23.7                |
| 20              | QPSK       | 1       | 53        | 22.96                 | 23.00                    | 22.96                  |                     |
| 20              | QPSK       | 1       | 104       | 22.89                 | 22.92                    | 22.95                  |                     |
| 20              | QPSK       | 50      | 0         | 22.95                 | 22.89                    | 22.82                  | 23.7                |
| 20              | QPSK       | 50      | 28        | 22.95                 | 22.96                    | 22.93                  |                     |
| 20              | QPSK       | 50      | 56        | 22.87                 | 22.91                    | 22.94                  |                     |
| 20              | QPSK       | 100     | 0         | 22.95                 | 22.94                    | 22.89                  | 23.7                |
| 20              | 16QAM      | 1       | 1         | 22.50                 | 22.54                    | 22.48                  | 23.2                |
| 20              | 16QAM      | 1       | 53        | 22.51                 | 22.60                    | 22.62                  |                     |
| 20              | 16QAM      | 1       | 104       | 22.52                 | 22.52                    | 22.54                  |                     |
| 20              | 16QAM      | 50      | 0         | 22.23                 | 22.20                    | 22.16                  | 23.2                |
| 20              | 16QAM      | 50      | 28        | 22.26                 | 22.25                    | 22.26                  |                     |
| 20              | 16QAM      | 50      | 56        | 22.18                 | 22.19                    | 22.23                  |                     |
| 20              | 16QAM      | 100     | 0         | 22.24                 | 22.26                    | 22.20                  | 23.2                |
| 20              | 64QAM      | 1       | 1         | 21.85                 | 21.91                    | 21.81                  | 22.7                |
| 20              | 64QAM      | 1       | 53        | 21.83                 | 21.89                    | 21.84                  |                     |
| 20              | 64QAM      | 1       | 104       | 21.84                 | 21.84                    | 21.81                  |                     |
| 20              | 64QAM      | 50      | 0         | 21.80                 | 21.76                    | 21.73                  | 22.7                |
| 20              | 64QAM      | 50      | 28        | 21.84                 | 21.91                    | 21.86                  |                     |
| 20              | 64QAM      | 50      | 56        | 21.75                 | 21.78                    | 21.82                  |                     |
| 20              | 64QAM      | 100     | 0         | 21.87                 | 21.83                    | 21.81                  | 22.7                |
| 20              | 256QAM     | 1       | 1         | 19.40                 | 19.45                    | 19.40                  | 20.2                |
| 20              | 256QAM     | 1       | 53        | 19.49                 | 19.54                    | 19.47                  |                     |
| 20              | 256QAM     | 1       | 104       | 19.39                 | 19.34                    | 19.42                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.42                 | 19.37                    | 19.40                  | 20.2                |
| 20              | 256QAM     | 50      | 28        | 19.48                 | 19.50                    | 19.50                  |                     |
| 20              | 256QAM     | 50      | 56        | 19.45                 | 19.39                    | 19.43                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.40                 | 19.46                    | 19.40                  | 20.2                |
| Channel         |            |         |           | 371500                | 376000                   | 381500                 | limit               |
| Frequency (MHz) |            |         |           | 1877.5                | 1880                     | 1907.5                 | limit               |
| 15              | PV2 BPSK   | 1       | 1         | 23.08                 | 23.10                    | 23.02                  | 23.7                |
| Channel         |            |         |           | 371000                | 376000                   | 382000                 | limit               |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1910                   | limit               |
| 10              | PV2 BPSK   | 1       | 1         | 23.03                 | 23.01                    | 23.02                  | 23.7                |
| Channel         |            |         |           | 370500                | 376000                   | 382500                 | limit               |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1917.5                 | limit               |
| 5               | PV2 BPSK   | 1       | 1         | 23.09                 | 23.05                    | 23.07                  | 23.7                |

| n66             |            |         |           |                       |                          |                        |                                 |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------------------|
| Ant. 2          |            |         |           |                       |                          |                        |                                 |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) (dBm) (dBm) |
| Channel         |            |         |           | 344000                | 349000                   | 354000                 |                                 |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                                 |
| 20              | PI/2 BPSK  | 1       | 1         | 24.73                 | 23.96                    | 24.62                  | 25.3                            |
| 20              | PI/2 BPSK  | 1       | 53        | 24.64                 | 24.51                    | 24.63                  |                                 |
| 20              | PI/2 BPSK  | 1       | 104       | 24.75                 | 24.63                    | 24.63                  |                                 |
| 20              | PI/2 BPSK  | 50      | 0         | 24.46                 | 23.70                    | 24.12                  | 25.3                            |
| 20              | PI/2 BPSK  | 50      | 28        | 24.75                 | 24.72                    | 24.63                  |                                 |
| 20              | PI/2 BPSK  | 50      | 56        | 24.11                 | 24.35                    | 24.24                  |                                 |
| 20              | PI/2 BPSK  | 100     | 0         | 24.22                 | 24.06                    | 24.20                  | 24.8                            |
| 20              | QPSK       | 1       | 1         | 24.29                 | 23.54                    | 24.15                  | 24.3                            |
| 20              | QPSK       | 1       | 53        | 24.17                 | 24.01                    | 24.04                  |                                 |
| 20              | QPSK       | 1       | 104       | 24.34                 | 24.22                    | 24.14                  |                                 |
| 20              | QPSK       | 50      | 0         | 23.48                 | 22.80                    | 23.21                  | 24.3                            |
| 20              | QPSK       | 50      | 28        | 23.76                 | 23.77                    | 23.72                  |                                 |
| 20              | QPSK       | 50      | 56        | 23.19                 | 23.41                    | 23.28                  |                                 |
| 20              | QPSK       | 100     | 0         | 23.32                 | 23.06                    | 23.20                  | 23.8                            |
| 20              | 16QAM      | 1       | 1         | 22.82                 | 22.05                    | 22.62                  | 23.3                            |
| 20              | 16QAM      | 1       | 53        | 22.69                 | 22.61                    | 22.62                  |                                 |
| 20              | 16QAM      | 1       | 104       | 22.77                 | 22.73                    | 22.67                  |                                 |
| 20              | 16QAM      | 50      | 0         | 22.55                 | 21.77                    | 22.16                  | 23.3                            |
| 20              | 16QAM      | 50      | 28        | 22.84                 | 22.79                    | 22.64                  |                                 |
| 20              | 16QAM      | 50      | 56        | 22.11                 | 22.36                    | 22.25                  |                                 |
| 20              | 16QAM      | 100     | 0         | 22.31                 | 22.16                    | 22.25                  | 22.8                            |
| 20              | 64QAM      | 1       | 1         | 22.38                 | 21.64                    | 22.31                  | 22.8                            |
| 20              | 64QAM      | 1       | 53        | 22.29                 | 22.19                    | 22.22                  |                                 |
| 20              | 64QAM      | 1       | 104       | 22.45                 | 22.31                    | 22.30                  |                                 |
| 20              | 64QAM      | 50      | 0         | 22.07                 | 21.32                    | 21.82                  | 22.8                            |
| 20              | 64QAM      | 50      | 28        | 22.39                 | 22.41                    | 22.32                  |                                 |
| 20              | 64QAM      | 50      | 56        | 21.76                 | 22.03                    | 21.87                  |                                 |
| 20              | 64QAM      | 100     | 0         | 21.89                 | 21.67                    | 21.85                  | 22.8                            |
| 20              | 256QAM     | 1       | 1         | 19.78                 | 19.01                    | 19.67                  | 20.8                            |
| 20              | 256QAM     | 1       | 53        | 19.73                 | 19.59                    | 19.58                  |                                 |
| 20              | 256QAM     | 1       | 104       | 19.76                 | 19.67                    | 19.63                  |                                 |
| 20              | 256QAM     | 50      | 0         | 20.05                 | 19.21                    | 19.63                  | 20.8                            |
| 20              | 256QAM     | 50      | 28        | 20.27                 | 20.30                    | 20.14                  |                                 |
| 20              | 256QAM     | 50      | 56        | 19.64                 | 19.85                    | 19.74                  |                                 |
| 20              | 256QAM     | 100     | 0         | 19.74                 | 19.61                    | 19.79                  | 20.8                            |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 |                                 |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                                 |
| 15              | PI/2 BPSK  | 1       | 1         | 24.69                 | 23.90                    | 24.55                  | 25.3                            |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 |                                 |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                                 |
| 10              | PI/2 BPSK  | 1       | 1         | 24.72                 | 23.95                    | 24.55                  | 25.3                            |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 |                                 |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                                 |
| 5               | PI/2 BPSK  | 1       | 1         | 24.72                 | 23.87                    | 24.57                  | 25.3                            |



| n2              |            |         |           |                       |                          |                        |                     |  |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|--|
| Act 0           |            |         |           |                       |                          |                        |                     |  |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |  |
| Channel         |            |         |           | 372000                | 376000                   | 380000                 | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1900                   |                     |  |
| 20              | Pl/2 BPSK  | 1       | 1         | 17.77                 | 17.69                    | 17.71                  | 18.4                |  |
| 20              | Pl/2 BPSK  | 1       | 53        | 17.79                 | 17.67                    | 17.78                  |                     |  |
| 20              | Pl/2 BPSK  | 1       | 104       | 17.76                 | 17.75                    | 17.69                  |                     |  |
| 20              | Pl/2 BPSK  | 50      | 0         | 17.73                 | 17.84                    | 17.74                  |                     |  |
| 20              | Pl/2 BPSK  | 50      | 28        | 17.87                 | 17.86                    | 17.83                  | 18.4                |  |
| 20              | Pl/2 BPSK  | 50      | 56        | 17.61                 | 17.57                    | 17.68                  |                     |  |
| 20              | Pl/2 BPSK  | 100     | 0         | 17.70                 | 17.71                    | 17.73                  |                     |  |
| 20              | QPSK       | 1       | 1         | 17.78                 | 17.73                    | 17.76                  | 18.4                |  |
| 20              | QPSK       | 1       | 53        | 17.79                 | 17.67                    | 17.83                  |                     |  |
| 20              | QPSK       | 1       | 104       | 17.77                 | 17.70                    | 17.74                  |                     |  |
| 20              | QPSK       | 50      | 0         | 17.68                 | 17.88                    | 17.77                  |                     |  |
| 20              | QPSK       | 50      | 28        | 17.84                 | 17.85                    | 17.84                  | 18.4                |  |
| 20              | QPSK       | 50      | 56        | 17.57                 | 17.58                    | 17.69                  |                     |  |
| 20              | QPSK       | 100     | 0         | 17.71                 | 17.73                    | 17.72                  |                     |  |
| 20              | 16QAM      | 1       | 1         | 17.74                 | 17.72                    | 17.75                  | 18.4                |  |
| 20              | 16QAM      | 1       | 53        | 17.82                 | 17.72                    | 17.76                  |                     |  |
| 20              | 16QAM      | 1       | 104       | 17.81                 | 17.77                    | 17.74                  |                     |  |
| 20              | 16QAM      | 50      | 0         | 17.71                 | 17.79                    | 17.73                  |                     |  |
| 20              | 16QAM      | 50      | 28        | 17.92                 | 17.85                    | 17.81                  | 18.4                |  |
| 20              | 16QAM      | 50      | 56        | 17.63                 | 17.58                    | 17.70                  |                     |  |
| 20              | 16QAM      | 100     | 0         | 17.66                 | 17.66                    | 17.71                  |                     |  |
| 20              | 64QAM      | 1       | 1         | 17.72                 | 17.69                    | 17.71                  | 18.4                |  |
| 20              | 64QAM      | 1       | 53        | 17.81                 | 17.71                    | 17.73                  |                     |  |
| 20              | 64QAM      | 1       | 104       | 17.72                 | 17.78                    | 17.70                  |                     |  |
| 20              | 64QAM      | 50      | 0         | 17.68                 | 17.83                    | 17.78                  |                     |  |
| 20              | 64QAM      | 50      | 28        | 17.90                 | 17.85                    | 17.78                  | 18.4                |  |
| 20              | 64QAM      | 50      | 56        | 17.66                 | 17.58                    | 17.69                  |                     |  |
| 20              | 64QAM      | 100     | 0         | 17.71                 | 17.75                    | 17.77                  |                     |  |
| 20              | 256QAM     | 1       | 1         | 17.80                 | 17.70                    | 17.67                  | 18.4                |  |
| 20              | 256QAM     | 1       | 53        | 17.83                 | 17.70                    | 17.73                  |                     |  |
| 20              | 256QAM     | 1       | 104       | 17.71                 | 17.72                    | 17.71                  |                     |  |
| 20              | 256QAM     | 50      | 0         | 17.74                 | 17.85                    | 17.72                  |                     |  |
| 20              | 256QAM     | 50      | 28        | 17.86                 | 17.82                    | 17.86                  | 18.4                |  |
| 20              | 256QAM     | 50      | 56        | 17.64                 | 17.62                    | 17.71                  |                     |  |
| 20              | 256QAM     | 100     | 0         | 17.66                 | 17.73                    | 17.72                  |                     |  |
| Channel         |            |         |           | 371500                | 376000                   | 380500                 | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 1851.5                | 1880                     | 1900.5                 |                     |  |
| 15              | Pl/2 BPSK  | 1       | 1         | 17.80                 | 17.71                    | 17.69                  | 18.4                |  |
| Channel         |            |         |           | 371000                | 376000                   | 381000                 | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1905                   |                     |  |
| 10              | Pl/2 BPSK  | 1       | 1         | 17.82                 | 17.69                    | 17.72                  | 18.4                |  |
| Channel         |            |         |           | 310500                | 310800                   | 311500                 | Tune-up limit (dBm) |  |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1907.5                 |                     |  |
| 5               | Pl/2 BPSK  | 1       | 1         | 17.79                 | 17.66                    | 17.74                  | 18.4                |  |

| n25             |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant 0           |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 375000                | 376000                   | 381000                 | limit               |
| Frequency (MHz) |            |         |           | 1860                  | 1880                     | 1905                   | limit               |
| 20              | PV2 BPSK   | 1       | 1         | 17.75                 | 17.70                    | 17.74                  | 18.4                |
| 20              | PV2 BPSK   | 1       | 53        | 17.76                 | 17.71                    | 17.75                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 17.74                 | 17.70                    | 17.72                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 17.76                 | 17.70                    | 17.78                  | 18.4                |
| 20              | PV2 BPSK   | 50      | 28        | 17.83                 | 17.82                    | 17.81                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 17.64                 | 17.62                    | 17.65                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 17.70                 | 17.69                    | 17.69                  | 18.4                |
| 20              | QPSK       | 1       | 1         | 17.75                 | 17.67                    | 17.77                  | 18.4                |
| 20              | QPSK       | 1       | 53        | 17.73                 | 17.75                    | 17.70                  |                     |
| 20              | QPSK       | 1       | 104       | 17.73                 | 17.69                    | 17.77                  |                     |
| 20              | QPSK       | 50      | 0         | 17.80                 | 17.74                    | 17.77                  | 18.4                |
| 20              | QPSK       | 50      | 28        | 17.78                 | 17.87                    | 17.85                  |                     |
| 20              | QPSK       | 50      | 56        | 17.68                 | 17.64                    | 17.61                  |                     |
| 20              | QPSK       | 100     | 0         | 17.69                 | 17.69                    | 17.64                  | 18.4                |
| 20              | 16QAM      | 1       | 1         | 17.77                 | 17.75                    | 17.77                  | 18.4                |
| 20              | 16QAM      | 1       | 53        | 17.79                 | 17.70                    | 17.76                  |                     |
| 20              | 16QAM      | 1       | 104       | 17.77                 | 17.75                    | 17.74                  |                     |
| 20              | 16QAM      | 50      | 0         | 17.76                 | 17.84                    | 17.81                  | 18.4                |
| 20              | 16QAM      | 50      | 28        | 17.84                 | 17.77                    | 17.84                  |                     |
| 20              | 16QAM      | 50      | 56        | 17.65                 | 17.64                    | 17.66                  |                     |
| 20              | 16QAM      | 100     | 0         | 17.69                 | 17.65                    | 17.74                  | 18.4                |
| 20              | 64QAM      | 1       | 1         | 17.79                 | 17.70                    | 17.69                  | 18.4                |
| 20              | 64QAM      | 1       | 53        | 17.77                 | 17.68                    | 17.80                  |                     |
| 20              | 64QAM      | 1       | 104       | 17.74                 | 17.73                    | 17.77                  |                     |
| 20              | 64QAM      | 50      | 0         | 17.78                 | 17.76                    | 17.83                  | 18.4                |
| 20              | 64QAM      | 50      | 28        | 17.81                 | 17.87                    | 17.78                  |                     |
| 20              | 64QAM      | 50      | 56        | 17.62                 | 17.66                    | 17.63                  |                     |
| 20              | 64QAM      | 100     | 0         | 17.69                 | 17.73                    | 17.74                  | 18.4                |
| 20              | 256QAM     | 1       | 1         | 17.77                 | 17.68                    | 17.76                  | 18.4                |
| 20              | 256QAM     | 1       | 53        | 17.76                 | 17.75                    | 17.80                  |                     |
| 20              | 256QAM     | 1       | 104       | 17.74                 | 17.72                    | 17.72                  |                     |
| 20              | 256QAM     | 50      | 0         | 17.79                 | 17.78                    | 17.81                  | 18.4                |
| 20              | 256QAM     | 50      | 28        | 17.82                 | 17.85                    | 17.86                  |                     |
| 20              | 256QAM     | 50      | 56        | 17.62                 | 17.60                    | 17.70                  |                     |
| 20              | 256QAM     | 100     | 0         | 17.75                 | 17.68                    | 17.74                  | 18.4                |
| Channel         |            |         |           | 371500                | 376000                   | 381500                 | limit               |
| Frequency (MHz) |            |         |           | 1857.5                | 1880                     | 1927.5                 | limit               |
| 15              | PV2 BPSK   | 1       | 1         | 17.75                 | 17.71                    | 17.70                  | 18.4                |
| Channel         |            |         |           | 371000                | 376000                   | 382000                 | limit               |
| Frequency (MHz) |            |         |           | 1855                  | 1880                     | 1910                   | limit               |
| 10              | PV2 BPSK   | 1       | 1         | 17.73                 | 17.72                    | 17.71                  | 18.4                |
| Channel         |            |         |           | 370500                | 376000                   | 382500                 | limit               |
| Frequency (MHz) |            |         |           | 1852.5                | 1880                     | 1912.5                 | limit               |
| 5               | PV2 BPSK   | 1       | 1         | 17.80                 | 17.68                    | 17.75                  | 18.4                |



| n66             |            |         |           |                       |                          |                        |                     |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|---------------------|
| Ant 0           |            |         |           |                       |                          |                        |                     |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) |
| Channel         |            |         |           | 343000                | 349000                   | 354000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1720                  | 1745                     | 1770                   |                     |
| 20              | PV2 BPSK   | 1       | 1         | 19.20                 | 19.13                    | 19.18                  | 20.1                |
| 20              | PV2 BPSK   | 1       | 53        | 19.02                 | 19.06                    | 19.03                  |                     |
| 20              | PV2 BPSK   | 1       | 104       | 19.09                 | 19.10                    | 19.07                  |                     |
| 20              | PV2 BPSK   | 50      | 0         | 19.14                 | 19.01                    | 19.00                  | 20.1                |
| 20              | PV2 BPSK   | 50      | 28        | 19.16                 | 19.14                    | 19.12                  |                     |
| 20              | PV2 BPSK   | 50      | 56        | 19.01                 | 19.04                    | 19.02                  |                     |
| 20              | PV2 BPSK   | 100     | 0         | 19.04                 | 19.01                    | 19.00                  | 20.1                |
| 20              | QPSK       | 1       | 1         | 19.13                 | 19.05                    | 19.09                  | 20.1                |
| 20              | QPSK       | 1       | 53        | 19.06                 | 19.06                    | 19.02                  |                     |
| 20              | QPSK       | 1       | 104       | 19.04                 | 19.06                    | 19.04                  |                     |
| 20              | QPSK       | 50      | 0         | 19.02                 | 19.00                    | 18.80                  | 20.1                |
| 20              | QPSK       | 50      | 28        | 18.97                 | 18.96                    | 18.95                  |                     |
| 20              | QPSK       | 50      | 56        | 18.92                 | 18.91                    | 18.91                  |                     |
| 20              | QPSK       | 100     | 0         | 18.90                 | 18.91                    | 18.90                  | 20.1                |
| 20              | 16QAM      | 1       | 1         | 19.09                 | 18.93                    | 19.05                  | 20.1                |
| 20              | 16QAM      | 1       | 53        | 18.91                 | 18.90                    | 18.88                  |                     |
| 20              | 16QAM      | 1       | 104       | 18.99                 | 18.94                    | 18.92                  |                     |
| 20              | 16QAM      | 50      | 0         | 19.13                 | 18.92                    | 19.00                  | 20.1                |
| 20              | 16QAM      | 50      | 28        | 19.12                 | 19.09                    | 19.10                  |                     |
| 20              | 16QAM      | 50      | 56        | 18.96                 | 18.95                    | 18.96                  |                     |
| 20              | 16QAM      | 100     | 0         | 18.97                 | 18.93                    | 18.99                  | 20.1                |
| 20              | 64QAM      | 1       | 1         | 19.31                 | 19.28                    | 19.35                  | 20.1                |
| 20              | 64QAM      | 1       | 53        | 19.18                 | 19.23                    | 19.20                  |                     |
| 20              | 64QAM      | 1       | 104       | 19.28                 | 19.22                    | 19.25                  |                     |
| 20              | 64QAM      | 50      | 0         | 19.00                 | 18.90                    | 18.91                  | 20.1                |
| 20              | 64QAM      | 50      | 28        | 19.04                 | 18.95                    | 19.02                  |                     |
| 20              | 64QAM      | 50      | 56        | 18.91                 | 18.93                    | 18.92                  |                     |
| 20              | 64QAM      | 100     | 0         | 18.93                 | 18.91                    | 18.90                  | 20.1                |
| 20              | 256QAM     | 1       | 1         | 18.93                 | 18.93                    | 18.91                  | 20.1                |
| 20              | 256QAM     | 1       | 53        | 18.90                 | 18.91                    | 18.90                  |                     |
| 20              | 256QAM     | 1       | 104       | 18.90                 | 18.90                    | 18.90                  |                     |
| 20              | 256QAM     | 50      | 0         | 19.10                 | 19.00                    | 18.94                  | 20.1                |
| 20              | 256QAM     | 50      | 28        | 19.13                 | 19.12                    | 19.02                  |                     |
| 20              | 256QAM     | 50      | 56        | 18.97                 | 19.00                    | 18.96                  |                     |
| 20              | 256QAM     | 100     | 0         | 19.00                 | 18.98                    | 18.97                  | 20.1                |
| Channel         |            |         |           | 343000                | 349000                   | 354000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1717.5                | 1745                     | 1772.5                 |                     |
| 15              | PV2 BPSK   | 1       | 1         | 19.19                 | 19.11                    | 19.14                  | 20.1                |
| Channel         |            |         |           | 343000                | 349000                   | 355000                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1715                  | 1745                     | 1775                   |                     |
| 10              | PV2 BPSK   | 1       | 1         | 19.15                 | 19.15                    | 19.19                  | 20.1                |
| Channel         |            |         |           | 342500                | 349000                   | 355500                 | limit (dBm)         |
| Frequency (MHz) |            |         |           | 1712.5                | 1745                     | 1777.5                 |                     |
| 5               | PV2 BPSK   | 1       | 1         | 19.22                 | 19.13                    | 19.16                  | 20.1                |



| n5              |            |         |           |                       |                          |                        |                               |
|-----------------|------------|---------|-----------|-----------------------|--------------------------|------------------------|-------------------------------|
| Act 1           |            |         |           |                       |                          |                        |                               |
| BW [MHz]        | Modulation | RB Size | RB Offset | Power Low Ch. / Freq. | Power Middle Ch. / Freq. | Power High Ch. / Freq. | Tune-up limit (dBm) (min/max) |
| Channel         |            |         |           | 166800                | 167300                   | 167800                 |                               |
| Frequency (MHz) |            |         |           | 834                   | 838.5                    | 839                    |                               |
| 20              | PI/2 BPSK  | 1       | 1         | 22.63                 | 22.49                    | 22.47                  | 23.2                          |
| 20              | PI/2 BPSK  | 1       | 53        | 22.55                 | 22.78                    | 22.65                  |                               |
| 20              | PI/2 BPSK  | 1       | 104       | 22.51                 | 22.50                    | 22.48                  |                               |
| 20              | PI/2 BPSK  | 50      | 0         | 22.55                 | 22.59                    | 22.51                  | 23.2                          |
| 20              | PI/2 BPSK  | 50      | 28        | 22.58                 | 22.60                    | 22.59                  |                               |
| 20              | PI/2 BPSK  | 50      | 56        | 22.50                 | 22.56                    | 22.43                  |                               |
| 20              | PI/2 BPSK  | 100     | 0         | 22.54                 | 22.55                    | 22.14                  | 23.2                          |
| 20              | QPSK       | 1       | 1         | 22.56                 | 22.51                    | 22.49                  | 23.2                          |
| 20              | QPSK       | 1       | 53        | 22.52                 | 22.52                    | 22.57                  |                               |
| 20              | QPSK       | 1       | 104       | 22.43                 | 22.47                    | 22.45                  |                               |
| 20              | QPSK       | 50      | 0         | 22.51                 | 22.49                    | 22.58                  | 23.2                          |
| 20              | QPSK       | 50      | 28        | 22.88                 | 22.68                    | 22.90                  |                               |
| 20              | QPSK       | 50      | 56        | 22.37                 | 22.43                    | 22.41                  |                               |
| 20              | QPSK       | 100     | 0         | 22.48                 | 22.50                    | 22.54                  | 23.2                          |
| 20              | 16QAM      | 1       | 1         | 22.81                 | 22.71                    | 22.61                  | 23.2                          |
| 20              | 16QAM      | 1       | 53        | 22.70                 | 22.80                    | 22.75                  |                               |
| 20              | 16QAM      | 1       | 104       | 22.63                 | 22.64                    | 22.60                  |                               |
| 20              | 16QAM      | 50      | 0         | 21.91                 | 22.07                    | 21.96                  | 23.2                          |
| 20              | 16QAM      | 50      | 28        | 22.30                 | 22.43                    | 22.41                  |                               |
| 20              | 16QAM      | 50      | 56        | 21.88                 | 21.96                    | 21.84                  |                               |
| 20              | 16QAM      | 100     | 0         | 21.88                 | 21.89                    | 21.85                  | 23.0                          |
| 20              | 64QAM      | 1       | 1         | 21.41                 | 21.32                    | 21.32                  | 22.5                          |
| 20              | 64QAM      | 1       | 53        | 21.44                 | 21.48                    | 21.46                  |                               |
| 20              | 64QAM      | 1       | 104       | 21.33                 | 21.24                    | 21.25                  |                               |
| 20              | 64QAM      | 50      | 0         | 21.38                 | 21.34                    | 21.33                  | 22.5                          |
| 20              | 64QAM      | 50      | 28        | 21.43                 | 21.47                    | 21.45                  |                               |
| 20              | 64QAM      | 50      | 56        | 21.34                 | 21.27                    | 21.26                  |                               |
| 20              | 64QAM      | 100     | 0         | 21.37                 | 21.29                    | 21.24                  | 22.5                          |
| 20              | 256QAM     | 1       | 1         | 19.65                 | 19.50                    | 19.51                  | 20.5                          |
| 20              | 256QAM     | 1       | 53        | 19.59                 | 19.64                    | 19.58                  |                               |
| 20              | 256QAM     | 1       | 104       | 19.55                 | 19.46                    | 19.43                  |                               |
| 20              | 256QAM     | 50      | 0         | 19.70                 | 19.50                    | 19.62                  | 20.5                          |
| 20              | 256QAM     | 50      | 28        | 19.69                 | 19.75                    | 19.69                  |                               |
| 20              | 256QAM     | 50      | 56        | 19.55                 | 19.59                    | 19.54                  |                               |
| 20              | 256QAM     | 100     | 0         | 19.66                 | 19.59                    | 19.51                  | 20.5                          |
| Channel         |            |         |           | 168300                | 167300                   | 168300                 |                               |
| Frequency (MHz) |            |         |           | 831.5                 | 835.5                    | 841.5                  |                               |
| 15              | PI/2 BPSK  | 1       | 1         | 22.62                 | 22.46                    | 22.44                  | 23.2                          |
| Channel         |            |         |           | 165800                | 167300                   | 166800                 |                               |
| Frequency (MHz) |            |         |           | 829                   | 835.5                    | 844                    |                               |
| 10              | PI/2 BPSK  | 1       | 1         | 22.55                 | 22.43                    | 22.38                  | 23.2                          |
| Channel         |            |         |           | 163300                | 167300                   | 163300                 |                               |
| Frequency (MHz) |            |         |           | 826.5                 | 835.5                    | 846.5                  |                               |
| 5               | PI/2 BPSK  | 1       | 1         | 22.61                 | 22.41                    | 22.42                  | 23.2                          |



| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
| 2.4GHz WLAN      | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|                  | 802.11b 1Mbps       | 1       | 2412            | 19.10               | 19.50         | 100.00       | 19.20               | 19.50         | 100.00       | 19.50               | 19.50         | 100.00       | 19.50               | 19.50         | 19.40               | 19.50         | 22.46               | 22.5          | 100.00       |
|                  |                     | 6       | 2437            | 19.00               | 19.50         |              | 18.70               | 19.50         |              | 19.00               | 19.50         |              | 19.40               | 19.50         | 19.00               | 19.50         | 22.21               | 22.5          |              |
|                  |                     | 11      | 2462            | 18.80               | 19.50         |              | 17.90               | 19.50         |              | 19.00               | 19.50         |              | 19.00               | 19.50         | 18.40               | 19.50         | 21.72               | 22.5          |              |
|                  | 802.11g 6Mbps       | 1       | 2412            | 15.20               | 16.00         | 98.08        | 15.20               | 16.00         | 97.60        | 15.50               | 16.00         | 97.60        | 15.50               | 16.00         | 15.60               | 16.00         | 18.56               | 18.0          | 97.84        |
|                  |                     | 6       | 2437            | 19.00               | 19.50         |              | 18.60               | 19.50         |              | 19.40               | 19.50         |              | 19.40               | 19.50         | 19.00               | 19.50         | 22.21               | 22.5          |              |
|                  |                     | 11      | 2462            | 16.20               | 16.50         |              | 15.80               | 16.50         |              | 16.30               | 16.50         |              | 16.30               | 16.50         | 15.90               | 16.50         | 19.11               | 19.5          |              |
|                  | 802.11n-HT20 MCS0   | 1       | 2412            | 14.20               | 15.00         | 97.94        | 14.00               | 15.00         | 97.93        | 14.60               | 15.00         | 97.93        | 14.60               | 15.00         | 14.50               | 15.00         | 17.56               | 18.0          | 97.94        |
|                  |                     | 6       | 2437            | 18.90               | 19.50         |              | 18.50               | 19.50         |              | 19.30               | 19.50         |              | 19.30               | 19.50         | 18.90               | 19.50         | 22.11               | 22.5          |              |
|                  |                     | 11      | 2462            | 15.50               | 15.50         |              | 15.10               | 15.50         |              | 15.50               | 15.50         |              | 15.50               | 15.50         | 15.20               | 15.50         | 18.36               | 18.5          |              |
|                  | 802.11ac-VHT20 MCS0 | 1       | 2412            | 14.10               | 14.50         | 97.69        | 13.90               | 14.50         | 97.95        | 14.50               | 14.50         | 97.95        | 14.50               | 14.50         | 14.40               | 14.50         | 17.46               | 17.5          | 97.95        |
|                  |                     | 6       | 2437            | 18.80               | 19.50         |              | 18.40               | 19.50         |              | 19.20               | 19.50         |              | 19.20               | 19.50         | 18.80               | 19.50         | 22.01               | 22.5          |              |
|                  |                     | 11      | 2462            | 15.40               | 15.50         |              | 15.00               | 15.50         |              | 15.40               | 15.50         |              | 15.40               | 15.50         | 15.10               | 15.50         | 18.26               | 18.5          |              |

| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
| 5.2GHz WLAN      | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
|                  | 802.11a 6Mbps       | 36      | 5180            | 17.00               | 17.50         | 97.84        | 17.00               | 17.50         | 97.83        | 17.40               | 17.50         | 97.83        | 17.40               | 17.50         | 17.10               | 17.50         | 20.26               | 20.5          | 98.08        |
|                  |                     | 40      | 5200            | 17.60               | 18.00         |              | 17.90               | 18.00         |              | 18.00               | 18.00         |              | 18.00               | 18.00         | 17.60               | 18.00         | 20.81               | 21.0          |              |
|                  |                     | 44      | 5220            | 17.70               | 18.00         |              | 17.80               | 18.00         |              | 17.90               | 18.00         |              | 17.90               | 18.00         | 17.80               | 18.00         | 20.86               | 21.0          |              |
|                  |                     | 48      | 5240            | 17.10               | 17.50         |              | 16.90               | 17.50         |              | 17.20               | 17.50         |              | 17.20               | 17.50         | 17.10               | 17.50         | 20.16               | 20.5          |              |
|                  | 802.11n-HT20 MCS0   | 36      | 5180            | 16.80               | 17.50         | 97.42        | 16.90               | 17.50         | 97.94        | 17.20               | 17.50         | 97.94        | 17.20               | 17.50         | 17.00               | 17.50         | 20.11               | 20.5          | 97.42        |
|                  |                     | 40      | 5200            | 17.70               | 18.00         |              | 17.00               | 18.00         |              | 17.90               | 18.00         |              | 17.90               | 18.00         | 17.60               | 18.00         | 20.76               | 21.0          |              |
|                  |                     | 44      | 5220            | 17.50               | 18.00         |              | 17.30               | 18.00         |              | 17.60               | 18.00         |              | 17.60               | 18.00         | 17.70               | 18.00         | 20.66               | 21.0          |              |
|                  |                     | 48      | 5240            | 17.30               | 17.50         |              | 17.20               | 17.50         |              | 17.30               | 17.50         |              | 17.30               | 17.50         | 17.40               | 17.50         | 20.36               | 20.5          |              |
|                  | 802.11n-VHT40 MCS0  | 38      | 5190            | 15.70               | 16.00         | 95.67        | 15.40               | 16.00         | 95.03        | 15.80               | 16.00         | 95.03        | 15.80               | 16.00         | 15.50               | 16.00         | 18.66               | 19.0          | 95.66        |
|                  |                     | 46      | 5230            | 17.10               | 17.50         |              | 17.20               | 17.50         |              | 17.20               | 17.50         |              | 17.20               | 17.50         | 17.30               | 17.50         | 20.26               | 20.5          |              |
|                  | 802.11ac-VHT20 MCS0 | 36      | 5180            | 16.70               | 17.50         | 97.69        | 16.80               | 17.50         | 97.95        | 17.10               | 17.50         | 97.95        | 17.10               | 17.50         | 16.90               | 17.50         | 20.01               | 20.5          | 97.69        |
|                  |                     | 40      | 5200            | 17.60               | 18.00         |              | 16.90               | 18.00         |              | 17.80               | 18.00         |              | 17.80               | 18.00         | 17.50               | 18.00         | 20.66               | 21.0          |              |
|                  |                     | 44      | 5220            | 17.40               | 18.00         |              | 17.20               | 18.00         |              | 17.50               | 18.00         |              | 17.50               | 18.00         | 17.60               | 18.00         | 20.56               | 21.0          |              |
|                  |                     | 48      | 5240            | 17.20               | 17.50         |              | 17.10               | 17.50         |              | 17.20               | 17.50         |              | 17.20               | 17.50         | 17.30               | 17.50         | 20.26               | 20.5          |              |
|                  | 802.11ac-VHT40 MCS0 | 38      | 5190            | 15.60               | 16.00         | 96.08        | 15.30               | 16.00         | 95.69        | 15.70               | 16.00         | 95.69        | 15.70               | 16.00         | 15.40               | 16.00         | 18.56               | 19.0          | 95.69        |
|                  |                     | 46      | 5230            | 17.00               | 17.50         |              | 17.10               | 17.50         |              | 17.10               | 17.50         |              | 17.10               | 17.50         | 17.20               | 17.50         | 20.16               | 20.5          |              |
|                  | 802.11ac-VHT80 MCS0 | 42      | 5210            | 14.60               | 15.00         | 92.68        | 14.90               | 15.00         | 91.94        | 14.70               | 15.00         | 91.94        | 14.70               | 15.00         | 15.00               | 15.00         | 17.88               | 18.0          | 91.87        |

| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)                 |                      | Ant 4+3(3)                 |                      | Ant 4+3                 |                   |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|----------------------------|----------------------|----------------------------|----------------------|-------------------------|-------------------|--------------|
| 5.3GHz WLAN      | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) 1+2(1) | Tune-Up Limit 1+2(1) | Average power (dBm) 1+2(2) | Tune-Up Limit 1+2(2) | Average power (dBm) 1+2 | Tune-Up Limit 1+2 | Duty Cycle % |
|                  | 802.11a 6Mbps       | 52      | 5260            | 17.40               | 18.00         | 97.84        | 17.20               | 18.00         | 97.83        | 17.10               | 17.50         | 97.83        | 17.60                      | 18.00                | 17.50                      | 18.00                | 20.56                   | 21.0              | 98.08        |
|                  |                     | 56      | 5280            | 17.50               | 17.50         |              | 17.10               | 17.50         |              | 17.50               | 17.50         |              | 17.50                      | 17.50                | 17.20                      | 17.50                | 20.42                   | 20.5              |              |
|                  |                     | 60      | 5300            | 17.50               | 17.50         |              | 16.80               | 17.50         |              | 17.50               | 17.50         |              | 17.50                      | 17.50                | 16.90                      | 17.50                | 20.22                   | 20.5              |              |
|                  |                     | 64      | 5320            | 17.30               | 17.50         |              | 16.70               | 17.50         |              | 17.40               | 17.50         |              | 17.40                      | 17.50                | 16.80                      | 17.50                | 20.12                   | 20.5              |              |
|                  | 802.11n-HT20 MCS0   | 52      | 5260            | 17.60               | 18.00         | 97.42        | 17.60               | 18.00         | 97.94        | 17.70               | 18.00         | 97.94        | 17.70                      | 18.00                | 17.80                      | 18.00                | 20.76                   | 21.0              | 97.42        |
|                  |                     | 56      | 5280            | 17.50               | 17.50         |              | 16.80               | 17.50         |              | 17.40               | 17.50         |              | 17.40                      | 17.50                | 17.50                      | 17.50                | 20.50                   | 20.5              |              |
|                  |                     | 60      | 5300            | 17.50               | 17.50         |              | 17.00               | 17.50         |              | 17.50               | 17.50         |              | 17.50                      | 17.50                | 17.40                      | 17.50                | 20.46                   | 20.5              |              |
|                  |                     | 64      | 5320            | 17.00               | 17.00         |              | 16.60               | 17.00         |              | 17.00               | 17.00         |              | 17.00                      | 17.00                | 16.90                      | 17.00                | 19.96                   | 20.0              |              |
|                  | 802.11n-VHT40 MCS0  | 54      | 5270            | 17.20               | 17.50         | 95.67        | 17.10               | 17.50         | 95.03        | 17.30               | 17.50         | 95.03        | 17.30                      | 17.50                | 17.20                      | 17.50                | 20.26                   | 20.5              | 95.66        |
|                  |                     | 62      | 5310            | 16.50               | 16.50         |              | 16.40               | 16.50         |              | 16.50               | 16.50         |              | 16.50                      | 16.50                | 15.80                      | 16.50                | 19.17                   | 19.5              |              |
|                  | 802.11ac-VHT20 MCS0 | 52      | 5260            | 17.50               | 18.00         | 97.69        | 17.50               | 18.00         | 97.95        | 17.60               | 18.00         | 97.95        | 17.60                      | 18.00                | 17.70                      | 18.00                | 20.66                   | 21.0              | 97.69        |
|                  |                     | 56      | 5280            | 17.40               | 17.50         |              | 16.70               | 17.50         |              | 17.30               | 17.50         |              | 17.30                      | 17.50                | 17.40                      | 17.50                | 20.41                   | 20.5              |              |
|                  |                     | 60      | 5300            | 17.40               | 17.50         |              | 16.90               | 17.50         |              | 17.40               | 17.50         |              | 17.40                      | 17.50                | 17.30                      | 17.50                | 20.36                   | 20.5              |              |
|                  |                     | 64      | 5320            | 16.90               | 17.00         |              | 16.50               | 17.00         |              | 16.90               | 17.00         |              | 16.90                      | 17.00                | 16.80                      | 17.00                | 19.86                   | 20.0              |              |
|                  | 802.11ac-VHT40 MCS0 | 54      | 5270            | 17.10               | 17.50         | 96.08        | 17.00               | 17.50         | 95.69        | 17.20               | 17.50         | 95.69        | 17.20                      | 17.50                | 17.10                      | 17.50                | 20.16                   | 20.5              | 95.69        |
|                  |                     | 62      | 5310            | 16.40               | 16.50         |              | 16.40               | 16.50         |              | 16.40               | 16.50         |              | 16.40                      | 16.50                | 15.60                      | 16.50                | 19.03                   | 19.5              |              |
|                  | 802.11ac-VHT80 MCS0 | 58      | 5290            | 15.90               | 16.00         | 92.68        | 14.90               | 16.00         | 91.94        | 16.00               | 16.00         | 91.94        | 16.00                      | 16.00                | 15.10                      | 16.00                | 18.58                   | 19.0              | 91.87        |



| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|
| 5.5GHz WLAN      | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit |
|                  | 802.11a 6Mbps       | 100     | 5500            | 17.60               | 18.50         | 97.84        | 17.50               | 18.50         | 97.83        | 18.10               | 18.50         | 97.83        | 18.10               | 18.50         | 18.00               | 18.50         | 21.06               | 21.5          |
|                  |                     | 116     | 5580            | 18.40               | 18.50         |              | 17.30               | 18.50         |              | 18.50               | 18.50         |              | 18.50               | 18.50         | 17.70               | 18.50         | 21.13               | 21.5          |
|                  |                     | 124     | 5620            | 18.10               | 18.50         |              | 17.40               | 18.50         |              | 18.40               | 18.50         |              | 18.40               | 18.50         | 17.60               | 18.50         | 21.03               | 21.5          |
|                  |                     | 132     | 5680            | 18.20               | 18.50         |              | 17.10               | 18.50         |              | 18.30               | 18.50         |              | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          |
|                  | 802.11n-HT20 MCS0   | 144     | 5720            | 18.10               | 18.50         | 97.42        | 17.80               | 18.50         | 97.94        | 18.30               | 18.50         | 97.94        | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          |
|                  |                     | 100     | 5500            | 18.00               | 18.50         |              | 17.90               | 18.50         |              | 18.20               | 18.50         |              | 18.20               | 18.50         | 18.10               | 18.50         | 21.16               | 21.5          |
|                  |                     | 116     | 5580            | 18.20               | 18.50         |              | 17.50               | 18.50         |              | 18.40               | 18.50         |              | 18.40               | 18.50         | 17.80               | 18.50         | 21.03               | 21.5          |
|                  |                     | 124     | 5620            | 18.10               | 18.50         |              | 17.20               | 18.50         |              | 18.10               | 18.50         |              | 18.10               | 18.50         | 17.30               | 18.50         | 20.73               | 21.5          |
|                  | 802.11n-HT40 MCS0   | 132     | 5660            | 17.80               | 18.50         | 95.67        | 18.10               | 18.50         | 95.03        | 18.00               | 18.50         | 95.03        | 18.00               | 18.50         | 17.90               | 18.50         | 20.96               | 21.5          |
|                  |                     | 144     | 5720            | 18.20               | 18.50         |              | 18.10               | 18.50         |              | 18.30               | 18.50         |              | 18.30               | 18.50         | 18.20               | 18.50         | 21.26               | 21.5          |
|                  |                     | 102     | 5510            | 16.70               | 17.00         |              | 16.50               | 17.00         |              | 16.80               | 17.00         |              | 16.80               | 17.00         | 16.60               | 17.00         | 19.71               | 20.0          |
|                  |                     | 110     | 5550            | 17.40               | 17.50         |              | 16.60               | 17.50         |              | 17.50               | 17.50         |              | 17.50               | 17.50         | 16.70               | 17.50         | 20.13               | 20.5          |
|                  | 802.11ac-VHT20 MCS0 | 126     | 5630            | 17.40               | 17.50         | 95.67        | 16.70               | 17.50         | 95.03        | 17.50               | 17.50         | 95.03        | 17.50               | 17.50         | 16.80               | 17.50         | 20.17               | 20.5          |
|                  |                     | 134     | 5670            | 17.30               | 17.50         |              | 17.20               | 17.50         |              | 17.40               | 17.50         |              | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          |
|                  |                     | 142     | 5710            | 17.40               | 17.50         |              | 17.30               | 17.50         |              | 17.50               | 17.50         |              | 17.50               | 17.50         | 17.40               | 17.50         | 20.46               | 20.5          |
|                  |                     | 100     | 5500            | 17.90               | 18.50         | 97.69        | 17.80               | 18.50         | 97.95        | 18.10               | 18.50         | 97.95        | 18.10               | 18.50         | 18.00               | 18.50         | 21.06               | 21.5          |
|                  | 802.11ac-VHT40 MCS0 | 116     | 5580            | 18.10               | 18.50         |              | 17.40               | 18.50         |              | 18.30               | 18.50         |              | 18.30               | 18.50         | 17.50               | 18.50         | 20.93               | 21.5          |
|                  |                     | 124     | 5620            | 17.70               | 18.50         |              | 17.10               | 18.50         |              | 18.00               | 18.50         |              | 18.00               | 18.50         | 17.20               | 18.50         | 20.63               | 21.5          |
|                  |                     | 132     | 5660            | 17.60               | 18.50         |              | 17.90               | 18.50         |              | 17.90               | 18.50         |              | 17.90               | 18.50         | 17.80               | 18.50         | 20.86               | 21.5          |
|                  | 802.11ac-VHT80 MCS0 | 144     | 5720            | 18.10               | 18.50         | 96.08        | 18.00               | 18.50         | 95.69        | 18.20               | 18.50         | 95.69        | 18.20               | 18.50         | 18.10               | 18.50         | 21.16               | 21.5          |
|                  |                     | 102     | 5510            | 16.60               | 17.00         |              | 16.40               | 17.00         |              | 16.70               | 17.00         |              | 16.70               | 17.00         | 16.50               | 17.00         | 19.61               | 20.0          |
|                  |                     | 110     | 5550            | 17.30               | 17.50         |              | 16.50               | 17.50         |              | 17.40               | 17.50         |              | 17.40               | 17.50         | 16.60               | 17.50         | 20.03               | 20.5          |
|                  |                     | 126     | 5630            | 17.30               | 17.50         |              | 16.60               | 17.50         |              | 17.50               | 17.50         |              | 17.50               | 17.50         | 16.70               | 17.50         | 20.13               | 20.5          |
| 5.8GHz WLAN      | 802.11ac-VHT40 MCS0 | 134     | 5670            | 17.20               | 17.50         | 96.08        | 17.10               | 17.50         | 95.69        | 17.30               | 17.50         | 95.69        | 17.30               | 17.50         | 17.20               | 17.50         | 20.26               | 20.5          |
|                  |                     | 142     | 5710            | 17.30               | 17.50         |              | 17.20               | 17.50         |              | 17.40               | 17.50         |              | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          |
|                  |                     | 106     | 5530            | 15.40               | 16.00         |              | 15.30               | 16.00         |              | 15.60               | 16.00         |              | 15.60               | 16.00         | 15.50               | 16.00         | 18.56               | 19.0          |
|                  |                     | 122     | 5610            | 17.40               | 17.50         |              | 16.80               | 17.50         |              | 17.50               | 17.50         |              | 17.50               | 17.50         | 16.90               | 17.50         | 20.22               | 20.5          |
|                  | 802.11ac-VHT80 MCS0 | 138     | 5690            | 17.10               | 17.50         | 92.68        | 17.00               | 17.50         | 91.94        | 17.20               | 17.50         | 91.94        | 17.20               | 17.50         | 17.10               | 17.50         | 20.16               | 20.5          |
|                  |                     | 146     | 5730            | 17.20               | 17.50         |              | 17.10               | 17.50         |              | 17.30               | 17.50         |              | 17.30               | 17.50         | 17.20               | 17.50         | 20.26               | 20.5          |
|                  |                     | 114     | 5570            | 16.90               | 17.00         |              | 16.70               | 17.00         |              | 17.00               | 17.00         |              | 17.00               | 17.00         | 16.80               | 17.00         | 19.81               | 20.0          |
|                  |                     | 130     | 5650            | 17.00               | 17.50         |              | 16.90               | 17.50         |              | 17.10               | 17.50         |              | 17.10               | 17.50         | 17.00               | 17.50         | 20.11               | 20.5          |
| 5.8GHz WLAN      | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit |
|                  | 802.11a 6Mbps       | 149     | 5745            | 18.40               | 18.50         | 97.84        | 18.20               | 18.50         | 97.83        | 18.50               | 18.50         | 97.83        | 18.50               | 18.50         | 18.30               | 18.50         | 21.41               | 21.5          |
|                  |                     | 157     | 5785            | 18.20               | 18.50         |              | 18.00               | 18.50         |              | 18.30               | 18.50         |              | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          |
|                  |                     | 165     | 5825            | 16.90               | 17.00         |              | 16.30               | 17.00         |              | 17.00               | 17.00         |              | 17.00               | 17.00         | 16.40               | 17.00         | 19.72               | 20.0          |
|                  | 802.11n-HT20 MCS0   | 149     | 5745            | 18.30               | 18.50         | 97.42        | 18.10               | 18.50         | 97.94        | 18.40               | 18.50         | 97.94        | 18.40               | 18.50         | 18.20               | 18.50         | 21.31               | 21.5          |
|                  |                     | 157     | 5785            | 18.20               | 18.50         |              | 18.00               | 18.50         |              | 18.30               | 18.50         |              | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          |
|                  |                     | 165     | 5825            | 18.20               | 18.50         |              | 17.80               | 18.50         |              | 18.30               | 18.50         |              | 18.30               | 18.50         | 17.90               | 18.50         | 21.11               | 21.5          |
|                  | 802.11n-HT40 MCS0   | 151     | 5755            | 17.30               | 17.50         | 95.67        | 17.10               | 17.50         | 95.03        | 17.40               | 17.50         | 95.03        | 17.40               | 17.50         | 17.20               | 17.50         | 20.31               | 20.5          |
|                  |                     | 159     | 5795            | 17.30               | 17.50         |              | 17.00               | 17.50         |              | 17.40               | 17.50         |              | 17.40               | 17.50         | 17.10               | 17.50         | 20.26               | 20.5          |
|                  |                     | 149     | 5745            | 18.20               | 18.50         |              | 18.00               | 18.50         |              | 18.30               | 18.50         |              | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          |
|                  | 802.11ac-VHT20 MCS0 | 157     | 5785            | 18.10               | 18.50         | 97.69        | 17.90               | 18.50         | 97.95        | 18.20               | 18.50         | 97.95        | 18.20               | 18.50         | 18.00               | 18.50         | 21.11               | 21.5          |
|                  |                     | 165     | 5825            | 18.10               | 18.50         |              | 17.70               | 18.50         |              | 18.20               | 18.50         |              | 18.20               | 18.50         | 17.80               | 18.50         | 21.01               | 21.5          |
|                  |                     | 151     | 5755            | 17.20               | 17.50         |              | 17.00               | 17.50         |              | 17.30               | 17.50         |              | 17.30               | 17.50         | 17.10               | 17.50         | 20.21               | 20.5          |
|                  | 802.11ac-VHT40 MCS0 | 159     | 5795            | 17.20               | 17.50         | 96.08        | 16.90               | 17.50         | 95.69        | 17.30               | 17.50         | 95.69        | 17.30               | 17.50         | 17.00               | 17.50         | 20.16               | 20.5          |
|                  |                     | 155     | 5775            | 17.30               | 17.50         |              | 17.20               | 17.50         |              | 17.40               | 17.50         |              | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          |
|                  | 802.11ac-VHT80 MCS0 | 155     | 5775            | 17.30               | 17.50         | 92.68        | 17.20               | 17.50         | 91.94        | 17.40               | 17.50         | 91.94        | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          |
|                  |                     | 163     | 5815            | 17.40               | 17.50         |              | 17.30               | 17.50         |              | 17.50               | 17.50         |              | 17.50               | 17.50         | 17.40               | 17.50         | 20.46               | 20.5          |



| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4 |  |  | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|-------|--|--|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                  | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |  |  | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN      | 802.11b 1Mbps       | 1       | 2412            | 19.10               | 19.50         | 100.00       |       |  |  | 19.20               | 19.50         | 100.00       | 19.50               | 19.50         | 19.40               | 19.50         | 22.46               | 22.5          | 100.00       |
|                  |                     | 6       | 2437            | 19.00               | 19.50         |              |       |  |  | 18.70               | 19.50         |              | 19.40               | 19.50         | 19.00               | 19.50         | 22.21               | 22.5          |              |
|                  |                     | 11      | 2462            | 18.80               | 19.50         |              |       |  |  | 17.90               | 19.50         |              | 19.00               | 19.50         | 18.40               | 19.50         | 21.72               | 22.5          |              |
|                  | 802.11g 6Mbps       | 1       | 2412            | 15.20               | 16.00         | 98.08        |       |  |  | 15.20               | 16.00         | 97.60        | 15.50               | 16.00         | 15.60               | 16.00         | 18.56               | 18.0          | 97.84        |
|                  |                     | 6       | 2437            | 19.00               | 19.50         |              |       |  |  | 18.60               | 19.50         |              | 19.40               | 19.50         | 19.00               | 19.50         | 22.21               | 22.5          |              |
|                  |                     | 11      | 2462            | 16.20               | 16.50         |              |       |  |  | 15.80               | 16.50         |              | 16.30               | 16.50         | 15.90               | 16.50         | 19.11               | 19.5          |              |
|                  | 802.11n-HT20 MCS0   | 1       | 2412            | 14.20               | 15.00         | 97.94        |       |  |  | 14.00               | 15.00         | 97.93        | 14.60               | 15.00         | 14.50               | 15.00         | 17.56               | 18.0          | 97.94        |
|                  |                     | 6       | 2437            | 18.90               | 19.50         |              |       |  |  | 18.50               | 19.50         |              | 19.30               | 19.50         | 18.90               | 19.50         | 22.11               | 22.5          |              |
|                  |                     | 11      | 2462            | 15.50               | 15.50         |              |       |  |  | 15.10               | 15.50         |              | 15.50               | 15.50         | 15.20               | 15.50         | 18.36               | 18.5          |              |
|                  | 802.11ac-VHT20 MCS0 | 1       | 2412            | 14.10               | 14.50         | 97.69        |       |  |  | 13.90               | 14.50         | 97.95        | 14.50               | 14.50         | 14.40               | 14.50         | 17.46               | 17.5          | 97.95        |
|                  |                     | 6       | 2437            | 18.80               | 19.50         |              |       |  |  | 18.40               | 19.50         |              | 19.20               | 19.50         | 18.80               | 19.50         | 22.01               | 22.5          |              |
|                  |                     | 11      | 2462            | 15.40               | 15.50         |              |       |  |  | 15.00               | 15.50         |              | 15.40               | 15.50         | 15.10               | 15.50         | 18.26               | 18.5          |              |

| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4 |  |  | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|-------|--|--|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                  | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |  |  | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN      | 802.11a 6Mbps       | 36      | 5180            | 17.00               | 17.50         | 97.84        |       |  |  | 17.00               | 17.50         | 97.83        | 17.40               | 17.50         | 17.10               | 17.50         | 20.26               | 20.5          | 98.08        |
|                  |                     | 40      | 5200            | 17.60               | 18.00         |              |       |  |  | 17.90               | 18.00         |              | 18.00               | 18.00         | 17.60               | 18.00         | 20.81               | 21.0          |              |
|                  |                     | 44      | 5220            | 17.70               | 18.00         |              |       |  |  | 17.80               | 18.00         |              | 17.90               | 18.00         | 17.80               | 18.00         | 20.86               | 21.0          |              |
|                  |                     | 48      | 5240            | 17.10               | 17.50         |              |       |  |  | 16.90               | 17.50         |              | 17.20               | 17.50         | 17.10               | 17.50         | 20.16               | 20.5          |              |
|                  | 802.11n-HT20 MCS0   | 36      | 5180            | 16.80               | 17.50         | 97.42        |       |  |  | 16.90               | 17.50         | 97.94        | 17.20               | 17.50         | 17.00               | 17.50         | 20.11               | 20.5          | 97.42        |
|                  |                     | 40      | 5200            | 17.70               | 18.00         |              |       |  |  | 17.00               | 18.00         |              | 17.90               | 18.00         | 17.60               | 18.00         | 20.76               | 21.0          |              |
|                  |                     | 44      | 5220            | 17.50               | 18.00         |              |       |  |  | 17.30               | 18.00         |              | 17.60               | 18.00         | 17.70               | 18.00         | 20.66               | 21.0          |              |
|                  |                     | 48      | 5240            | 17.30               | 17.50         |              |       |  |  | 17.20               | 17.50         |              | 17.30               | 17.50         | 17.40               | 17.50         | 20.36               | 20.5          |              |
|                  | 802.11n-VHT40 MCS0  | 36      | 5190            | 15.70               | 16.00         | 95.67        |       |  |  | 15.40               | 16.00         | 95.03        | 15.80               | 16.00         | 15.50               | 16.00         | 18.66               | 19.0          | 95.66        |
|                  |                     | 46      | 5230            | 17.10               | 17.50         |              |       |  |  | 17.20               | 17.50         |              | 17.20               | 17.50         | 17.30               | 17.50         | 20.26               | 20.5          |              |
|                  | 802.11ac-VHT20 MCS0 | 36      | 5180            | 16.70               | 17.50         | 97.69        |       |  |  | 16.80               | 17.50         | 97.95        | 17.10               | 17.50         | 16.90               | 17.50         | 20.01               | 20.5          | 97.69        |
|                  |                     | 40      | 5200            | 17.60               | 18.00         |              |       |  |  | 16.90               | 18.00         |              | 17.80               | 18.00         | 17.50               | 18.00         | 20.66               | 21.0          |              |
|                  |                     | 44      | 5220            | 17.40               | 18.00         |              |       |  |  | 17.20               | 18.00         |              | 17.50               | 18.00         | 17.60               | 18.00         | 20.56               | 21.0          |              |
|                  |                     | 48      | 5240            | 17.20               | 17.50         |              |       |  |  | 17.10               | 17.50         |              | 17.20               | 17.50         | 17.30               | 17.50         | 20.26               | 20.5          |              |
|                  | 802.11ac-VHT40 MCS0 | 38      | 5190            | 15.60               | 16.00         | 96.08        |       |  |  | 15.30               | 16.00         | 95.69        | 15.70               | 16.00         | 15.40               | 16.00         | 18.56               | 19.0          | 95.69        |
|                  |                     | 46      | 5230            | 17.00               | 17.50         |              |       |  |  | 17.10               | 17.50         |              | 17.10               | 17.50         | 17.20               | 17.50         | 20.16               | 20.5          |              |
|                  | 802.11ac-VHT80 MCS0 | 42      | 5210            | 14.60               | 15.00         | 92.68        |       |  |  | 14.90               | 15.00         | 91.94        | 14.70               | 15.00         | 15.00               | 15.00         | 17.88               | 18.0          | 91.87        |

| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4 |  |  | Ant 3               |               |              | Ant 4+3(4)                 |                      | Ant 4+3(3)                 |                      | Ant 4+3                 |                   |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|-------|--|--|---------------------|---------------|--------------|----------------------------|----------------------|----------------------------|----------------------|-------------------------|-------------------|--------------|
|                  | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       |  |  | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) 1+2(1) | Tune-Up Limit 1+2(1) | Average power (dBm) 1+2(2) | Tune-Up Limit 1+2(2) | Average power (dBm) 1+2 | Tune-Up Limit 1+2 | Duty Cycle % |
| 5.3GHz WLAN      | 802.11a 6Mbps       | 52      | 5260            | 17.40               | 18.00         | 97.84        |       |  |  | 17.20               | 18.00         | 97.83        | 17.60                      | 18.00                | 17.50                      | 18.00                | 20.56                   | 21.0              | 98.08        |
|                  |                     | 56      | 5280            | 17.50               | 17.50         |              |       |  |  | 17.10               | 17.50         |              | 17.50                      | 17.50                | 17.20                      | 17.50                | 20.42                   | 20.5              |              |
|                  |                     | 60      | 5300            | 17.50               | 17.50         |              |       |  |  | 16.80               | 17.50         |              | 17.50                      | 17.50                | 16.90                      | 17.50                | 20.22                   | 20.5              |              |
|                  |                     | 64      | 5320            | 17.30               | 17.50         |              |       |  |  | 16.70               | 17.50         |              | 17.40                      | 17.50                | 16.80                      | 17.50                | 20.12                   | 20.5              |              |
|                  | 802.11n-HT20 MCS0   | 52      | 5260            | 17.60               | 18.00         | 97.42        |       |  |  | 17.60               | 18.00         | 97.94        | 17.70                      | 18.00                | 17.80                      | 18.00                | 20.76                   | 21.0              | 97.42        |
|                  |                     | 56      | 5280            | 17.50               | 17.50         |              |       |  |  | 16.80               | 17.50         |              | 17.40                      | 17.50                | 17.50                      | 17.50                | 20.50                   | 20.5              |              |
|                  |                     | 60      | 5300            | 17.50               | 17.50         |              |       |  |  | 17.00               | 17.50         |              | 17.50                      | 17.50                | 17.40                      | 17.50                | 20.46                   | 20.5              |              |
|                  |                     | 64      | 5320            | 17.00               | 17.00         |              |       |  |  | 16.60               | 17.00         |              | 17.00                      | 17.00                | 16.90                      | 17.00                | 19.96                   | 20.0              |              |
|                  | 802.11n-HT40 MCS0   | 54      | 5270            | 17.20               | 17.50         | 95.67        |       |  |  | 17.10               | 17.50         | 95.03        | 17.30                      | 17.50                | 17.20                      | 17.50                | 20.26                   | 20.5              | 95.66        |
|                  |                     | 62      | 5310            | 16.50               | 16.50         |              |       |  |  | 16.40               | 16.50         |              | 16.50                      | 16.50                | 15.80                      | 16.50                | 19.17                   | 19.5              |              |
|                  | 802.11ac-VHT20 MCS0 | 52      | 5260            | 17.50               | 18.00         | 97.69        |       |  |  | 17.50               | 18.00         | 97.95        | 17.60                      | 18.00                | 17.70                      | 18.00                | 20.66                   | 21.0              | 97.69        |
|                  |                     | 56      | 5280            | 17.40               | 17.50         |              |       |  |  | 16.70               | 17.50         |              | 17.30                      | 17.50                | 17.40                      | 17.50                | 20.41                   | 20.5              |              |
|                  |                     | 60      | 5300            | 17.40               | 17.50         |              |       |  |  | 16.90               | 17.50         |              | 17.40                      | 17.50                | 17.30                      | 17.50                | 20.36                   | 20.5              |              |
|                  |                     | 64      | 5320            | 16.90               | 17.00         |              |       |  |  | 16.50               | 17.00         |              | 16.90                      | 17.00                | 16.80                      | 17.00                | 19.86                   | 20.0              |              |
|                  | 802.11ac-VHT40 MCS0 | 54      | 5270            | 17.10               | 17.50         | 96.08        |       |  |  | 17.00               | 17.50         | 95.69        | 17.20                      | 17.50                | 17.10                      | 17.50                | 20.16                   | 20.5              | 95.69        |
|                  |                     | 62      | 5310            | 16.40               | 16.50         |              |       |  |  | 16.40               | 16.50         |              | 16.40                      | 16.50                | 15.60                      | 16.50                | 19.03                   | 19.5              |              |
|                  | 802.11ac-VHT80 MCS0 | 58      | 5290            | 15.90               | 16.00         | 92.68        |       |  |  | 14.90               | 16.00         | 91.94        | 16.00                      | 16.00                | 15.10                      | 16.00                | 18.58                   | 19.0              | 91.87        |



|                     | Transmit Antenna    |         |                 |                     |               | Ant 4        |                     | Ant 3         |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|---------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                     | Mode                | Channel | Frequency (Mhz) | Average power (dbm) | Tune-Up Limit | Duty Cycle % | Average power (dbm) | Tune-Up Limit | Duty Cycle % | Average power (dbm) | Tune-Up Limit | Average power (dbm) | Tune-Up Limit | Average power (dbm) | Tune-Up Limit | Duty Cycle % |
| 5.5GHz WLAN         | 802.11a 6Mbps       | 100     | 5500            | 17.60               | 18.50         | 97.84        | 17.50               | 18.50         | 97.83        | 18.10               | 18.50         | 18.00               | 18.50         | 21.06               | 21.5          | 98.08        |
|                     |                     | 116     | 5580            | 18.40               | 18.50         |              | 17.30               | 18.50         |              | 18.50               | 18.50         | 17.70               | 18.50         | 21.13               | 21.5          |              |
|                     |                     | 124     | 5620            | 18.10               | 18.50         |              | 17.40               | 18.50         |              | 18.40               | 18.50         | 17.60               | 18.50         | 21.03               | 21.5          |              |
|                     |                     | 132     | 5660            | 18.20               | 18.50         |              | 17.10               | 18.50         |              | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          |              |
|                     | 802.11n-HT20 MCS0   | 144     | 5720            | 18.10               | 18.50         | 97.42        | 17.80               | 18.50         | 97.94        | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          | 97.42        |
|                     |                     | 100     | 5500            | 18.00               | 18.50         |              | 17.90               | 18.50         |              | 18.20               | 18.50         | 18.10               | 18.50         | 21.16               | 21.5          |              |
|                     |                     | 116     | 5580            | 18.20               | 18.50         |              | 17.50               | 18.50         |              | 18.40               | 18.50         | 17.60               | 18.50         | 21.03               | 21.5          |              |
|                     |                     | 124     | 5620            | 18.10               | 18.50         |              | 17.20               | 18.50         |              | 18.10               | 18.50         | 17.30               | 18.50         | 20.73               | 21.5          |              |
|                     | 802.11n-HT40 MCS0   | 132     | 5660            | 17.80               | 18.50         | 95.67        | 18.10               | 18.50         | 95.03        | 18.00               | 18.50         | 17.90               | 18.50         | 20.96               | 21.5          | 95.66        |
|                     |                     | 144     | 5720            | 18.20               | 18.50         |              | 18.10               | 18.50         |              | 18.30               | 18.50         | 18.20               | 18.50         | 21.26               | 21.5          |              |
|                     |                     | 102     | 5510            | 16.70               | 17.00         |              | 16.50               | 17.00         |              | 16.80               | 17.00         | 16.60               | 17.00         | 19.71               | 20.0          |              |
|                     |                     | 110     | 5550            | 17.40               | 17.50         |              | 16.60               | 17.50         |              | 17.50               | 17.50         | 16.70               | 17.50         | 20.13               | 20.5          |              |
|                     | 802.11ac-VHT20 MCS0 | 126     | 5630            | 17.40               | 17.50         | 97.69        | 16.70               | 17.50         | 97.95        | 17.50               | 17.50         | 16.80               | 17.50         | 20.17               | 20.5          | 97.69        |
|                     |                     | 134     | 5670            | 17.30               | 17.50         |              | 17.20               | 17.50         |              | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          |              |
|                     |                     | 142     | 5710            | 17.40               | 17.50         |              | 17.30               | 17.50         |              | 17.50               | 17.50         | 17.40               | 17.50         | 20.46               | 20.5          |              |
|                     |                     | 100     | 5500            | 17.90               | 18.50         |              | 17.80               | 18.50         |              | 18.10               | 18.50         | 18.00               | 18.50         | 21.06               | 21.5          |              |
|                     | 802.11ac-VHT40 MCS0 | 116     | 5580            | 18.10               | 18.50         | 96.08        | 17.40               | 18.50         | 95.69        | 18.30               | 18.50         | 17.50               | 18.50         | 20.93               | 21.5          | 96.69        |
|                     |                     | 124     | 5620            | 17.70               | 18.50         |              | 17.10               | 18.50         |              | 18.00               | 18.50         | 17.20               | 18.50         | 20.63               | 21.5          |              |
|                     |                     | 132     | 5660            | 17.60               | 18.50         |              | 17.90               | 18.50         |              | 17.80               | 18.50         | 17.80               | 18.50         | 20.86               | 21.5          |              |
|                     |                     | 144     | 5720            | 18.10               | 18.50         |              | 18.00               | 18.50         |              | 18.20               | 18.50         | 18.10               | 18.50         | 21.16               | 21.5          |              |
|                     | 802.11ac-VHT80 MCS0 | 102     | 5510            | 16.60               | 17.00         | 92.68        | 16.40               | 17.00         | 91.94        | 16.70               | 17.00         | 16.50               | 17.00         | 19.61               | 20.0          | 91.87        |
|                     |                     | 110     | 5550            | 17.30               | 17.50         |              | 16.50               | 17.50         |              | 17.40               | 17.50         | 16.60               | 17.50         | 20.03               | 20.5          |              |
|                     |                     | 126     | 5630            | 17.30               | 17.50         |              | 16.60               | 17.50         |              | 17.50               | 17.50         | 16.70               | 17.50         | 20.13               | 20.5          |              |
|                     |                     | 134     | 5670            | 17.20               | 17.50         |              | 17.10               | 17.50         |              | 17.30               | 17.50         | 17.20               | 17.50         | 20.26               | 20.5          |              |
| 802.11ac-VHT80 MCS0 | 142                 | 5710    | 17.30           | 17.50               | 92.68         | 17.20        | 17.50               | 91.94         | 17.40        | 17.50               | 17.30         | 17.50               | 20.36         | 20.5                | 91.87         |              |
|                     | 106                 | 5530    | 15.40           | 16.00               |               | 15.30        | 16.00               |               | 15.60        | 16.00               | 15.50         | 16.00               | 18.56         | 19.0                |               |              |
|                     | 122                 | 5610    | 17.40           | 17.50               |               | 16.80        | 17.50               |               | 17.50        | 17.50               | 16.90         | 17.50               | 20.22         | 20.5                |               |              |
|                     | 138                 | 5690    | 17.10           | 17.50               |               | 17.00        | 17.50               |               | 17.20        | 17.50               | 17.10         | 17.50               | 20.16         | 20.5                |               |              |

|             | Transmit Antenna    |                     |                 |                     |               | Ant 4        |                     | Ant 3         |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |       |
|-------------|---------------------|---------------------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|-------|
|             | Mode                | Channel             | Frequency (MHz) | Average power (dbm) | Tune-Up Limit | Duty Cycle % | Average power (dbm) | Tune-Up Limit | Duty Cycle % | Average power (dbm) | Tune-Up Limit | Average power (dbm) | Tune-Up Limit | Average power (dbm) | Tune-Up Limit | Duty Cycle % |       |
| 5.8GHz WLAN | 802.11a 6Mbps       | 149                 | 5745            | 18.40               | 18.50         | 97.84        | 18.20               | 18.50         | 97.83        | 18.50               | 18.50         | 18.30               | 18.50         | 21.41               | 21.5          | 98.08        |       |
|             |                     | 157                 | 5785            | 18.20               | 18.50         |              | 18.00               | 18.50         |              | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          |              |       |
|             |                     | 165                 | 5825            | 16.90               | 17.00         |              | 16.30               | 17.00         |              | 17.00               | 17.00         | 16.40               | 17.00         | 19.72               | 20.0          |              |       |
|             |                     | 149                 | 5745            | 18.30               | 18.50         |              | 18.10               | 18.50         |              | 18.40               | 18.50         | 18.20               | 18.50         | 21.31               | 21.5          |              |       |
|             | 802.11n-HT20 MCS0   | 157                 | 5785            | 18.20               | 18.50         | 97.42        | 18.00               | 18.50         | 97.94        | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          | 97.42        |       |
|             |                     | 165                 | 5825            | 18.20               | 18.50         |              | 17.80               | 18.50         |              | 18.30               | 18.50         | 17.90               | 18.50         | 21.11               | 21.5          |              |       |
|             |                     | 802.11n-HT40 MCS0   | 151             | 5755                | 17.30         | 17.50        | 95.67               | 17.10         | 17.50        | 95.03               | 17.40         | 17.50               | 17.20         | 17.50               | 20.31         | 20.5         | 95.66 |
|             |                     |                     | 159             | 5795                | 17.30         | 17.50        |                     | 17.00         | 17.50        |                     | 17.40         | 17.50               | 17.10         | 17.50               | 20.26         | 20.5         |       |
|             | 802.11ac-VHT20 MCS0 | 149                 | 5745            | 18.20               | 18.50         | 97.69        | 18.00               | 18.50         | 97.95        | 18.30               | 18.50         | 18.10               | 18.50         | 21.21               | 21.5          | 97.69        |       |
|             |                     | 157                 | 5785            | 18.10               | 18.50         |              | 17.90               | 18.50         |              | 18.20               | 18.50         | 18.00               | 18.50         | 21.11               | 21.5          |              |       |
|             |                     | 165                 | 5825            | 18.10               | 18.50         |              | 17.70               | 18.50         |              | 18.20               | 18.50         | 17.80               | 18.50         | 21.01               | 21.5          |              |       |
|             |                     | 802.11ac-VHT40 MCS0 | 151             | 5755                | 17.20         |              | 17.50               | 96.08         |              | 17.00               | 17.50         | 95.69               | 17.30         | 17.50               | 17.10         |              | 17.50 |
|             | 159                 |                     | 5795            | 17.20               | 17.50         | 16.90        | 17.50               |               | 17.30        | 17.50               | 17.00         |                     | 17.50         | 20.16               | 20.5          |              |       |
|             | 802.11ac-VHT80 MCS0 | 155                 | 5775            | 17.30               | 17.50         | 92.68        | 17.20               | 17.50         | 91.94        | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          | 91.87        |       |
|             |                     | 157                 | 5795            | 17.30               | 17.50         |              | 17.20               | 17.50         |              | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          |              |       |
|             |                     | 159                 | 5795            | 17.30               | 17.50         |              | 17.20               | 17.50         |              | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          |              |       |
|             |                     | 161                 | 5835            | 17.30               | 17.50         |              | 17.20               | 17.50         |              | 17.40               | 17.50         | 17.30               | 17.50         | 20.36               | 20.5          |              |       |



| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                  | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN      | 802.11b 1Mbps       | 1       | 2412            | 12.50               | 13.00         | 100.00       | 15.00               | 16.50         | 100.00       | 12.80               | 13.00         | 100.00       | 12.80               | 13.00         | 16.10               | 16.50         | 17.91               | 18.1          | 100.00       |
|                  |                     | 6       | 2437            | 12.50               | 13.00         |              | 15.00               | 16.50         |              | 12.80               | 13.00         |              | 12.80               | 13.00         | 16.10               | 16.50         | 17.77               | 18.1          |              |
|                  |                     | 11      | 2462            | 12.90               | 13.00         |              | 15.00               | 16.50         |              | 12.50               | 13.00         |              | 12.50               | 13.00         | 16.10               | 16.50         | 17.81               | 18.1          |              |
|                  | 802.11g 6Mbps       | 1       | 2412            | 12.70               | 13.00         | 98.08        | 15.20               | 16.00         | 97.60        | 12.80               | 13.00         | 97.60        | 12.80               | 13.00         | 15.90               | 16.00         | 17.63               | 17.8          | 97.84        |
|                  |                     | 6       | 2437            | 12.70               | 13.00         |              | 15.40               | 16.50         |              | 12.70               | 13.00         |              | 12.70               | 13.00         | 15.40               | 16.50         | 17.94               | 18.1          |              |
|                  |                     | 11      | 2462            | 12.80               | 13.00         |              | 15.80               | 16.50         |              | 12.90               | 13.00         |              | 12.90               | 13.00         | 15.40               | 16.50         | 17.34               | 18.1          |              |
|                  | 802.11n-HT20 MCS0   | 1       | 2412            | 12.90               | 13.00         | 97.94        | 14.00               | 15.00         | 97.93        | 12.70               | 13.00         | 97.93        | 12.70               | 13.00         | 14.80               | 15.00         | 16.89               | 17.1          | 97.94        |
|                  |                     | 6       | 2437            | 12.80               | 13.00         |              | 16.40               | 16.50         |              | 12.80               | 13.00         |              | 12.80               | 13.00         | 16.20               | 16.50         | 17.83               | 18.1          |              |
|                  |                     | 11      | 2462            | 12.90               | 13.00         |              | 15.10               | 15.50         |              | 12.60               | 13.00         |              | 12.60               | 13.00         | 15.30               | 15.50         | 17.17               | 17.4          |              |
|                  | 802.11ac-VHT20 MCS0 | 1       | 2412            | 12.70               | 13.00         | 97.69        | 13.90               | 14.50         | 97.95        | 12.80               | 13.00         | 97.95        | 12.80               | 13.00         | 14.30               | 14.50         | 16.62               | 16.8          | 97.95        |
|                  |                     | 6       | 2437            | 12.80               | 13.00         |              | 16.40               | 16.50         |              | 12.90               | 13.00         |              | 12.90               | 13.00         | 16.40               | 16.50         | 18.00               | 18.1          |              |
|                  |                     | 11      | 2462            | 12.80               | 13.00         |              | 15.00               | 15.50         |              | 13.00               | 13.00         |              | 13.00               | 13.00         | 15.49               | 16.50         | 17.43               | 17.4          |              |

| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                  | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN      | 802.11a 6Mbps       | 36      | 5180            | 14.60               | 15.00         | 97.84        | 17.00               | 17.50         | 97.83        | 14.70               | 15.00         | 97.83        | 14.70               | 15.00         | 17.10               | 17.50         | 19.07               | 19.4          | 98.08        |
|                  |                     | 40      | 5200            | 14.60               | 15.00         |              | 17.90               | 18.00         |              | 14.70               | 15.00         |              | 14.70               | 15.00         | 17.70               | 18.00         | 19.46               | 19.8          |              |
|                  |                     | 44      | 5220            | 14.80               | 15.00         |              | 17.80               | 18.00         |              | 14.70               | 15.00         |              | 14.70               | 15.00         | 17.70               | 18.00         | 19.46               | 19.8          |              |
|                  |                     | 48      | 5240            | 14.90               | 15.00         |              | 16.90               | 17.50         |              | 14.80               | 15.00         |              | 14.80               | 15.00         | 17.40               | 17.50         | 19.30               | 19.4          |              |
|                  | 802.11n-HT20 MCS0   | 36      | 5180            | 14.90               | 15.00         | 97.42        | 16.90               | 17.50         | 97.94        | 14.90               | 15.00         | 97.94        | 14.90               | 15.00         | 17.30               | 17.50         | 19.27               | 19.4          | 97.42        |
|                  |                     | 40      | 5200            | 14.90               | 15.00         |              | 17.00               | 18.00         |              | 14.60               | 15.00         |              | 14.60               | 15.00         | 17.70               | 18.00         | 19.43               | 19.8          |              |
|                  |                     | 44      | 5220            | 14.70               | 15.00         |              | 17.30               | 18.00         |              | 14.60               | 15.00         |              | 14.60               | 15.00         | 17.70               | 18.00         | 19.43               | 19.8          |              |
|                  |                     | 48      | 5240            | 14.70               | 15.00         |              | 17.20               | 17.50         |              | 14.60               | 15.00         |              | 14.60               | 15.00         | 17.40               | 17.50         | 19.23               | 19.4          |              |
|                  | 802.11n-HT40 MCS0   | 36      | 5190            | 14.70               | 15.00         | 95.67        | 15.40               | 16.00         | 95.03        | 14.60               | 15.00         | 95.03        | 14.60               | 15.00         | 15.90               | 16.00         | 18.31               | 18.5          | 95.66        |
|                  |                     | 46      | 5230            | 14.70               | 15.00         |              | 17.20               | 17.50         |              | 14.60               | 15.00         |              | 14.60               | 15.00         | 17.20               | 17.50         | 19.10               | 19.4          |              |
|                  |                     | 36      | 5180            | 14.80               | 15.00         |              | 16.80               | 17.50         |              | 14.80               | 15.00         |              | 14.80               | 15.00         | 17.20               | 17.50         | 19.17               | 19.4          |              |
|                  | 802.11ac-VHT20 MCS0 | 40      | 5200            | 14.80               | 15.00         | 97.69        | 16.90               | 18.00         | 97.95        | 14.50               | 15.00         | 97.95        | 14.50               | 15.00         | 17.60               | 18.00         | 19.33               | 19.8          | 97.69        |
|                  |                     | 44      | 5220            | 14.80               | 15.00         |              | 17.20               | 18.00         |              | 14.50               | 15.00         |              | 14.50               | 15.00         | 17.60               | 18.00         | 19.33               | 19.8          |              |
|                  |                     | 48      | 5240            | 14.80               | 15.00         |              | 17.10               | 17.50         |              | 14.50               | 15.00         |              | 14.50               | 15.00         | 17.30               | 17.50         | 19.13               | 19.4          |              |
|                  | 802.11ac-VHT40 MCS0 | 36      | 5190            | 14.60               | 15.00         | 96.08        | 15.30               | 16.00         | 95.69        | 14.50               | 15.00         | 95.69        | 14.50               | 15.00         | 15.80               | 16.00         | 18.21               | 18.5          | 95.69        |
|                  |                     | 46      | 5230            | 14.60               | 15.00         |              | 17.10               | 17.50         |              | 14.50               | 15.00         |              | 14.50               | 15.00         | 17.10               | 17.50         | 19.00               | 19.4          |              |
|                  | 802.11ac-VHT80 MCS0 | 42      | 5210            | 14.60               | 15.00         | 92.68        | 14.90               | 15.00         | 91.94        | 14.70               | 15.00         | 91.94        | 14.70               | 15.00         | 15.00               | 15.00         | 17.88               | 18.0          | 91.87        |

| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)                 |                      | Ant 4+3(3)                 |                      | Ant 4+3                 |                   |              |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|----------------------------|----------------------|----------------------------|----------------------|-------------------------|-------------------|--------------|
|                  | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) 1+2(1) | Tune-Up Limit 1+2(1) | Average power (dBm) 1+2(2) | Tune-Up Limit 1+2(2) | Average power (dBm) 1+2 | Tune-Up Limit 1+2 | Duty Cycle % |
| 5.3GHz WLAN      | 802.11a 6Mbps       | 52      | 5260            | 14.90               | 15.00         | 97.84        | 17.20               | 18.00         | 97.83        | 14.60               | 15.00         | 97.83        | 14.60                      | 15.00                | 17.90                      | 18.00                | 19.57                   | 19.8              | 98.08        |
|                  |                     | 56      | 5280            | 14.80               | 15.00         |              | 17.10               | 17.50         |              | 14.80               | 15.00         |              | 14.80                      | 15.00                | 17.10                      | 17.50                | 19.11                   | 19.4              |              |
|                  |                     | 60      | 5300            | 14.90               | 15.00         |              | 16.80               | 17.50         |              | 14.90               | 15.00         |              | 14.90                      | 15.00                | 17.20                      | 17.50                | 19.21                   | 19.4              |              |
|                  |                     | 64      | 5320            | 14.60               | 15.00         |              | 16.70               | 17.50         |              | 14.90               | 15.00         |              | 14.90                      | 15.00                | 17.30                      | 17.50                | 19.27                   | 19.4              |              |
|                  | 802.11n-HT20 MCS0   | 52      | 5260            | 14.70               | 15.00         | 97.42        | 17.60               | 18.00         | 97.94        | 14.80               | 15.00         | 97.94        | 14.80                      | 15.00                | 17.80                      | 18.00                | 19.56                   | 19.8              | 97.42        |
|                  |                     | 56      | 5280            | 14.70               | 15.00         |              | 16.80               | 17.50         |              | 14.90               | 15.00         |              | 14.90                      | 15.00                | 17.10                      | 17.50                | 19.15                   | 19.4              |              |
|                  |                     | 60      | 5300            | 14.70               | 15.00         |              | 17.00               | 17.50         |              | 14.90               | 15.00         |              | 14.90                      | 15.00                | 17.10                      | 17.50                | 19.15                   | 19.4              |              |
|                  |                     | 64      | 5320            | 14.90               | 15.00         |              | 16.60               | 17.00         |              | 14.70               | 15.00         |              | 14.70                      | 15.00                | 16.80                      | 17.00                | 18.89                   | 19.1              |              |
|                  | 802.11n-HT40 MCS0   | 54      | 5270            | 14.70               | 15.00         | 95.67        | 17.10               | 17.50         | 95.03        | 14.90               | 15.00         | 95.03        | 14.90                      | 15.00                | 17.10                      | 17.50                | 19.15                   | 19.4              | 95.66        |
|                  |                     | 62      | 5310            | 14.70               | 15.00         |              | 16.40               | 16.50         |              | 14.60               | 15.00         |              | 14.60                      | 15.00                | 16.50                      | 16.50                | 18.70                   | 18.8              |              |
|                  | 802.11ac-VHT20 MCS0 | 52      | 5260            | 14.60               | 15.00         | 97.69        | 17.50               | 18.00         | 97.95        | 14.70               | 15.00         | 97.95        | 14.70                      | 15.00                | 17.70                      | 18.00                | 19.46                   | 19.8              | 97.69        |
|                  |                     | 56      | 5280            | 14.60               | 15.00         |              | 16.70               | 17.50         |              | 14.80               | 15.00         |              | 14.80                      | 15.00                | 17.00                      | 17.50                | 19.05                   | 19.4              |              |
|                  |                     | 60      | 5300            | 14.60               | 15.00         |              | 16.90               | 17.50         |              | 14.80               | 15.00         |              | 14.80                      | 15.00                | 17.00                      | 17.50                | 19.05                   | 19.4              |              |
|                  |                     | 64      | 5320            | 14.80               | 15.00         |              | 15.50               | 17.00         |              | 14.60               | 15.00         |              | 14.60                      | 15.00                | 16.70                      | 17.00                | 18.79                   | 19.1              |              |
|                  | 802.11ac-VHT40 MCS0 | 54      | 5270            | 14.60               | 15.00         | 96.08        | 17.00               | 17.50         | 95.69        | 14.80               | 15.00         | 95.69        | 14.80                      | 15.00                | 17.00                      | 17.50                | 19.05                   | 19.4              | 95.69        |
|                  |                     | 62      | 5310            | 14.60               | 15.00         |              | 16.40               | 16.50         |              | 14.50               | 15.00         |              | 14.50                      | 15.00                | 16.50                      | 16.50                | 18.60                   | 18.8              |              |
|                  | 802.11ac-VHT80 MCS0 | 58      | 5290            | 14.60               | 15.00         | 92.68        | 14.90               | 16.00         | 91.94        | 14.80               | 15.00         | 91.94        | 14.80                      | 15.00                | 15.50                      | 16.00                | 18.17                   | 18.5              | 91.87        |



| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|
| 5.5GHz WLAN      | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit |
|                  | 802.11a 6Mbps       | 100     | 5500            | 12.40               | 12.50         | 97.84        | 17.50               | 18.50         | 97.83        | 12.40               | 12.50         | 18.40        | 18.50               | 19.37         | 19.5                | 98.08         | 19.37               | 19.5          |
|                  |                     | 116     | 5580            | 12.20               | 12.50         |              | 17.30               | 18.50         |              | 12.50               | 12.50         | 18.10        | 18.50               | 19.16         | 19.5                |               | 19.16               | 19.5          |
|                  |                     | 124     | 5620            | 12.30               | 12.50         |              | 17.40               | 18.50         |              | 12.40               | 12.50         | 18.40        | 18.50               | 19.37         | 19.5                |               | 19.37               | 19.5          |
|                  |                     | 132     | 5680            | 12.30               | 12.50         |              | 17.10               | 18.50         |              | 12.10               | 12.50         | 18.40        | 18.50               | 19.31         | 19.5                |               | 19.31               | 19.5          |
|                  | 802.11n-HT20 MCS0   | 144     | 5720            | 12.10               | 12.50         | 97.42        | 17.80               | 18.50         | 97.94        | 12.50               | 12.50         | 18.50        | 18.50               | 19.47         | 19.5                | 97.42         | 19.47               | 19.5          |
|                  |                     | 100     | 5500            | 12.30               | 12.50         |              | 17.90               | 18.50         |              | 12.40               | 12.50         | 18.40        | 18.50               | 19.37         | 19.5                |               | 19.37               | 19.5          |
|                  |                     | 116     | 5580            | 12.20               | 12.50         |              | 17.50               | 18.50         |              | 12.40               | 12.50         | 18.10        | 18.50               | 19.14         | 19.5                |               | 19.14               | 19.5          |
|                  |                     | 124     | 5620            | 12.30               | 12.50         |              | 17.20               | 18.50         |              | 12.40               | 12.50         | 18.10        | 18.50               | 19.14         | 19.5                |               | 19.14               | 19.5          |
|                  | 802.11n-HT40 MCS0   | 132     | 5660            | 12.20               | 12.50         | 95.67        | 18.10               | 18.50         | 95.03        | 12.40               | 12.50         | 18.10        | 18.50               | 19.14         | 19.5                | 95.66         | 19.14               | 19.5          |
|                  |                     | 144     | 5720            | 12.40               | 12.50         |              | 18.10               | 18.50         |              | 12.30               | 12.50         | 18.30        | 18.50               | 19.27         | 19.5                |               | 19.27               | 19.5          |
|                  |                     | 102     | 5510            | 12.40               | 12.50         |              | 16.50               | 17.00         |              | 12.30               | 12.50         | 16.60        | 17.00               | 17.97         | 18.3                |               | 17.97               | 18.3          |
|                  |                     | 110     | 5550            | 12.40               | 12.50         |              | 16.60               | 17.50         |              | 12.30               | 12.50         | 17.40        | 17.50               | 18.57         | 18.7                |               | 18.57               | 18.7          |
|                  | 802.11ac-VHT20 MCS0 | 126     | 5630            | 12.20               | 12.50         | 97.69        | 16.70               | 17.50         | 97.95        | 12.20               | 12.50         | 17.30        | 17.50               | 18.47         | 18.7                | 97.69         | 18.47               | 18.7          |
|                  |                     | 134     | 5670            | 12.20               | 12.50         |              | 17.20               | 17.50         |              | 12.10               | 12.50         | 17.10        | 17.50               | 18.29         | 18.7                |               | 18.29               | 18.7          |
|                  |                     | 142     | 5710            | 12.40               | 12.50         |              | 17.30               | 17.50         |              | 12.20               | 12.50         | 17.30        | 17.50               | 18.47         | 18.7                |               | 18.47               | 18.7          |
|                  |                     | 100     | 5500            | 12.20               | 12.50         |              | 17.80               | 18.50         |              | 12.30               | 12.50         | 18.30        | 18.50               | 19.27         | 19.5                |               | 19.27               | 19.5          |
|                  | 802.11ac-VHT40 MCS0 | 116     | 5580            | 12.10               | 12.50         | 96.08        | 17.40               | 18.50         | 95.69        | 12.30               | 12.50         | 18.00        | 18.50               | 19.04         | 19.5                | 96.08         | 19.04               | 19.5          |
|                  |                     | 124     | 5620            | 12.20               | 12.50         |              | 17.10               | 18.50         |              | 12.30               | 12.50         | 18.00        | 18.50               | 19.04         | 19.5                |               | 19.04               | 19.5          |
|                  |                     | 132     | 5660            | 12.10               | 12.50         |              | 17.90               | 18.50         |              | 12.30               | 12.50         | 18.00        | 18.50               | 19.04         | 19.5                |               | 19.04               | 19.5          |
|                  |                     | 144     | 5720            | 12.30               | 12.50         |              | 18.00               | 18.50         |              | 12.20               | 12.50         | 18.20        | 18.50               | 19.17         | 19.5                |               | 19.17               | 19.5          |
|                  | 802.11ac-VHT80 MCS0 | 102     | 5510            | 12.30               | 12.50         | 92.68        | 16.40               | 17.00         | 91.94        | 12.20               | 12.50         | 16.50        | 17.00               | 17.87         | 18.3                | 92.68         | 17.87               | 18.3          |
|                  |                     | 110     | 5550            | 12.30               | 12.50         |              | 16.50               | 17.50         |              | 12.20               | 12.50         | 17.30        | 17.50               | 18.47         | 18.7                |               | 18.47               | 18.7          |
|                  |                     | 126     | 5630            | 12.10               | 12.50         |              | 16.60               | 17.50         |              | 12.10               | 12.50         | 17.20        | 17.50               | 18.37         | 18.7                |               | 18.37               | 18.7          |
|                  |                     | 134     | 5670            | 12.10               | 12.50         |              | 17.10               | 17.50         |              | 12.00               | 12.50         | 17.00        | 17.50               | 18.19         | 18.7                |               | 18.19               | 18.7          |
|                  | 802.11ac-VHT80 MCS0 | 142     | 5710            | 12.30               | 12.50         | 91.87        | 17.20               | 17.50         | 91.94        | 12.10               | 12.50         | 17.20        | 17.50               | 18.37         | 18.7                | 91.87         | 18.37               | 18.7          |
|                  |                     | 106     | 5530            | 12.40               | 12.50         |              | 15.30               | 16.00         |              | 12.10               | 12.50         | 15.50        | 16.00               | 17.13         | 17.6                |               | 17.13               | 17.6          |
|                  |                     | 122     | 5610            | 12.50               | 12.50         |              | 16.80               | 17.50         |              | 12.20               | 12.50         | 17.10        | 17.50               | 18.32         | 18.7                |               | 18.32               | 18.7          |
|                  |                     | 138     | 5690            | 12.10               | 12.50         |              | 17.00               | 17.50         |              | 12.20               | 12.50         | 17.00        | 17.50               | 18.24         | 18.7                |               | 18.24               | 18.7          |

| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|
| 5.8GHz WLAN      | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit |
|                  | 802.11a 6Mbps       | 149     | 5745            | 13.40               | 13.50         | 97.84        | 18.20               | 18.50         | 97.83        | 13.30               | 13.50         | 18.30        | 18.50               | 19.49         | 19.7                | 98.08         | 19.49               | 19.7          |
|                  |                     | 157     | 5785            | 13.40               | 13.50         |              | 18.00               | 18.50         |              | 13.30               | 13.50         | 18.30        | 18.50               | 19.49         | 19.7                |               | 19.49               | 19.7          |
|                  |                     | 165     | 5825            | 13.30               | 13.50         |              | 16.30               | 17.00         |              | 13.30               | 13.50         | 16.90        | 17.00               | 18.47         | 18.6                |               | 18.47               | 18.6          |
|                  | 802.11n-HT20 MCS0   | 149     | 5745            | 13.40               | 13.50         | 97.42        | 18.10               | 18.50         | 97.94        | 13.40               | 13.50         | 18.40        | 18.50               | 19.59         | 19.7                | 97.42         | 19.59               | 19.7          |
|                  |                     | 157     | 5785            | 13.30               | 13.50         |              | 18.00               | 18.50         |              | 13.00               | 13.50         | 18.10        | 18.50               | 19.27         | 19.7                |               | 19.27               | 19.7          |
|                  |                     | 165     | 5825            | 13.20               | 13.50         |              | 17.80               | 18.50         |              | 13.30               | 13.50         | 18.40        | 18.50               | 19.57         | 19.7                |               | 19.57               | 19.7          |
|                  | 802.11n-HT40 MCS0   | 151     | 5755            | 13.30               | 13.50         | 95.67        | 17.10               | 17.50         | 95.03        | 13.50               | 13.50         | 17.40        | 17.50               | 18.88         | 19.0                | 95.66         | 18.88               | 19.0          |
|                  |                     | 159     | 5795            | 13.30               | 13.50         |              | 17.00               | 17.50         |              | 13.40               | 13.50         | 17.30        | 17.50               | 18.78         | 19.0                |               | 18.78               | 19.0          |
|                  |                     | 149     | 5745            | 13.30               | 13.50         |              | 18.00               | 18.50         |              | 13.20               | 13.50         | 18.30        | 18.50               | 19.47         | 19.7                |               | 19.47               | 19.7          |
|                  | 802.11ac-VHT20 MCS0 | 157     | 5785            | 13.20               | 13.50         | 97.69        | 17.90               | 18.50         | 97.95        | 13.40               | 13.50         | 18.50        | 18.50               | 19.67         | 19.7                | 97.69         | 19.67               | 19.7          |
|                  |                     | 165     | 5825            | 13.10               | 13.50         |              | 17.70               | 18.50         |              | 13.30               | 13.50         | 18.40        | 18.50               | 19.57         | 19.7                |               | 19.57               | 19.7          |
|                  |                     | 151     | 5755            | 13.20               | 13.50         |              | 17.00               | 17.50         |              | 13.40               | 13.50         | 17.40        | 17.50               | 18.86         | 19.0                |               | 18.86               | 19.0          |
|                  | 802.11ac-VHT40 MCS0 | 159     | 5795            | 13.20               | 13.50         | 96.08        | 16.90               | 17.50         | 95.69        | 13.30               | 13.50         | 17.30        | 17.50               | 18.76         | 19.0                | 96.08         | 18.76               | 19.0          |
|                  |                     | 155     | 5775            | 13.40               | 13.50         |              | 17.20               | 17.50         |              | 13.30               | 13.50         | 17.40        | 17.50               | 18.83         | 19.0                |               | 18.83               | 19.0          |



| Transmit Antenna |                     |                 |                     |               |              |        | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|------------------|---------------------|-----------------|---------------------|---------------|--------------|--------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
| Mode             | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |        | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 2.4GHz WLAN      | 802.11b 1Mbps       | 1               | 2412                | 15.80         | 16.00        |        | 19.20               | 19.50         |              | 19.50               | 19.50         |              | 19.50               | 19.50         | 19.40               | 19.50         | 22.46               | 22.5          |              |
|                  |                     | 6               | 2437                | 15.70         | 16.00        | 100.00 | 18.70               | 19.50         | 100.00       | 19.40               | 19.50         |              | 19.40               | 19.50         | 19.00               | 19.50         | 22.21               | 22.5          | 100.00       |
|                  |                     | 11              | 2462                | 15.70         | 16.00        |        | 17.90               | 19.50         |              | 19.00               | 19.50         |              | 19.00               | 19.50         | 15.40               | 19.50         | 21.72               | 22.5          |              |
|                  | 802.11g 6Mbps       | 1               | 2412                | 15.20         | 16.00        |        | 15.20               | 16.00         |              | 15.50               | 16.00         |              | 15.50               | 16.00         | 15.60               | 16.00         | 18.56               | 18.0          |              |
|                  |                     | 6               | 2437                | 15.70         | 16.00        | 98.08  | 16.60               | 19.50         | 97.60        | 19.40               | 19.50         |              | 19.40               | 19.50         | 19.00               | 19.50         | 22.21               | 22.5          | 97.84        |
|                  |                     | 11              | 2462                | 16.20         | 16.50        |        | 15.80               | 16.50         |              | 16.30               | 16.50         |              | 16.30               | 16.50         | 15.90               | 16.50         | 19.11               | 19.5          |              |
|                  | 802.11n-HT20 MCS0   | 1               | 2412                | 14.20         | 15.00        |        | 14.00               | 15.00         |              | 14.60               | 15.00         |              | 14.60               | 15.00         | 14.50               | 15.00         | 17.56               | 18.0          |              |
|                  |                     | 6               | 2437                | 15.70         | 16.00        | 97.94  | 16.50               | 19.50         | 97.93        | 19.30               | 19.50         |              | 19.30               | 19.50         | 18.90               | 19.50         | 22.11               | 22.5          | 97.94        |
|                  |                     | 11              | 2462                | 15.50         | 15.50        |        | 15.10               | 15.50         |              | 15.50               | 15.50         |              | 15.50               | 15.50         | 15.20               | 15.50         | 18.36               | 18.5          |              |
|                  | 802.11ac-VHT20 MCS0 | 1               | 2412                | 14.10         | 14.50        |        | 13.90               | 14.50         |              | 14.50               | 14.50         |              | 14.50               | 14.50         | 14.40               | 14.50         | 17.46               | 17.5          |              |
|                  |                     | 6               | 2437                | 15.60         | 16.00        | 97.69  | 18.40               | 19.50         | 97.95        | 19.20               | 19.50         |              | 19.20               | 19.50         | 18.80               | 19.50         | 22.01               | 22.5          | 97.95        |
|                  |                     | 11              | 2462                | 15.40         | 15.50        |        | 15.00               | 15.50         |              | 15.40               | 15.50         |              | 15.40               | 15.50         | 15.10               | 15.50         | 18.26               | 18.5          |              |

| Transmit Antenna |                     |                 |                     |               |              |       | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |              |
|------------------|---------------------|-----------------|---------------------|---------------|--------------|-------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
| Mode             | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Duty Cycle % |
| 5.2GHz WLAN      | 802.11a 6Mbps       | 36              | 5180                | 17.40         | 17.50        |       | 15.10               | 15.50         |              | 17.40               | 17.50         |              | 17.40               | 17.50         | 15.10               | 15.50         | 19.41               | 19.6          |              |
|                  |                     | 40              | 5200                | 17.40         | 17.50        | 97.84 | 15.10               | 15.50         | 97.83        | 17.30               | 17.50         |              | 17.30               | 17.50         | 15.10               | 15.50         | 19.35               | 19.6          | 98.08        |
|                  |                     | 44              | 5220                | 17.10         | 17.50        |       | 15.40               | 15.50         |              | 17.10               | 17.50         |              | 17.10               | 17.50         | 15.10               | 15.50         | 19.22               | 19.6          |              |
|                  |                     | 48              | 5240                | 17.20         | 17.50        |       | 15.40               | 15.50         |              | 17.20               | 17.50         |              | 17.20               | 17.50         | 15.00               | 15.50         | 19.25               | 19.6          |              |
|                  | 802.11n-HT20 MCS0   | 36              | 5180                | 17.10         | 17.50        |       | 15.20               | 15.50         |              | 17.20               | 17.50         |              | 17.20               | 17.50         | 15.40               | 15.50         | 19.40               | 19.6          |              |
|                  |                     | 40              | 5200                | 17.20         | 17.50        | 97.42 | 15.40               | 15.50         | 97.94        | 17.30               | 17.50         |              | 17.30               | 17.50         | 15.30               | 15.50         | 19.42               | 19.6          | 97.42        |
|                  |                     | 44              | 5220                | 17.40         | 17.50        |       | 15.20               | 15.50         |              | 17.30               | 17.50         |              | 17.30               | 17.50         | 15.40               | 15.50         | 19.46               | 19.6          |              |
|                  |                     | 48              | 5240                | 17.40         | 17.50        |       | 15.30               | 15.50         |              | 17.10               | 17.50         |              | 17.10               | 17.50         | 15.40               | 15.50         | 19.34               | 19.6          |              |
|                  | 802.11n-VHT40 MCS0  | 36              | 5190                | 15.70         | 16.00        |       | 15.10               | 15.50         |              | 15.80               | 16.00         |              | 15.80               | 16.00         | 15.50               | 15.50         | 18.66               | 18.6          |              |
|                  |                     | 46              | 5230                | 17.30         | 17.50        | 95.67 | 15.20               | 15.50         | 95.03        | 17.40               | 17.50         |              | 17.40               | 17.50         | 15.40               | 15.50         | 19.52               | 19.6          | 95.66        |
|                  |                     | 36              | 5180                | 17.00         | 17.50        |       | 15.10               | 15.50         |              | 17.30               | 17.50         |              | 17.30               | 17.50         | 15.00               | 15.50         | 19.31               | 19.6          |              |
|                  | 802.11ac-VHT20 MCS0 | 40              | 5200                | 17.10         | 17.50        | 97.69 | 15.30               | 15.50         | 97.95        | 17.40               | 17.50         |              | 17.40               | 17.50         | 15.10               | 15.50         | 19.41               | 19.6          | 97.69        |
|                  |                     | 44              | 5220                | 17.30         | 17.50        |       | 15.10               | 15.50         |              | 17.10               | 17.50         |              | 17.10               | 17.50         | 15.20               | 15.50         | 19.26               | 19.6          |              |
|                  |                     | 48              | 5240                | 17.30         | 17.50        |       | 15.20               | 15.50         |              | 17.20               | 17.50         |              | 17.20               | 17.50         | 15.30               | 15.50         | 19.36               | 19.6          |              |
|                  | 802.11ac-VHT40 MCS0 | 36              | 5190                | 15.60         | 16.00        | 96.08 | 15.30               | 15.50         | 95.69        | 15.70               | 16.00         |              | 15.70               | 16.00         | 15.40               | 15.50         | 18.56               | 18.6          | 95.69        |
|                  |                     | 46              | 5230                | 17.20         | 17.50        |       | 15.10               | 15.50         |              | 17.00               | 17.50         |              | 17.00               | 17.50         | 15.30               | 15.50         | 19.24               | 19.6          |              |
|                  | 802.11ac-VHT80 MCS0 | 42              | 5210                | 14.60         | 15.00        | 92.68 | 14.90               | 15.00         | 91.94        | 14.70               | 15.00         |              | 14.70               | 15.00         | 15.00               | 15.00         | 17.86               | 18.0          | 91.87        |

| Transmit Antenna |                     |                 |                     |               |              |       | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)                 |                      | Ant 4+3(3)                 |                      | Ant 4+3                 |                   |              |
|------------------|---------------------|-----------------|---------------------|---------------|--------------|-------|---------------------|---------------|--------------|---------------------|---------------|--------------|----------------------------|----------------------|----------------------------|----------------------|-------------------------|-------------------|--------------|
| Mode             | Channel             | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % |       | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) 1+2(1) | Tune-Up Limit 1+2(1) | Average power (dBm) 1+2(2) | Tune-Up Limit 1+2(2) | Average power (dBm) 1+2 | Tune-Up Limit 1+2 | Duty Cycle % |
| 5.3GHz WLAN      | 802.11a 6Mbps       | 52              | 5260                | 17.20         | 17.50        |       | 15.30               | 15.50         |              | 17.30               | 17.50         |              | 17.30                      | 17.50                | 15.40                      | 15.50                | 19.46                   | 19.6              |              |
|                  |                     | 56              | 5280                | 17.30         | 17.50        | 97.84 | 15.20               | 15.50         | 97.83        | 17.40               | 17.50         |              | 17.40                      | 17.50                | 15.30                      | 15.50                | 19.46                   | 19.6              | 98.08        |
|                  |                     | 60              | 5300                | 17.30         | 17.50        |       | 15.30               | 15.50         |              | 17.40               | 17.50         |              | 17.40                      | 17.50                | 15.40                      | 15.50                | 19.52                   | 19.6              |              |
|                  |                     | 64              | 5320                | 17.20         | 17.50        |       | 15.30               | 15.50         |              | 17.30               | 17.50         |              | 17.30                      | 17.50                | 15.40                      | 15.50                | 19.46                   | 19.6              |              |
|                  | 802.11n-HT20 MCS0   | 52              | 5260                | 17.20         | 17.50        |       | 15.10               | 15.50         |              | 17.30               | 17.50         |              | 17.30                      | 17.50                | 15.20                      | 15.50                | 19.39                   | 19.6              |              |
|                  |                     | 56              | 5280                | 17.40         | 17.50        | 97.42 | 15.10               | 15.50         | 97.94        | 17.40               | 17.50         |              | 17.40                      | 17.50                | 15.20                      | 15.50                | 19.45                   | 19.6              | 97.42        |
|                  |                     | 60              | 5300                | 17.40         | 17.50        |       | 15.10               | 15.50         |              | 17.40               | 17.50         |              | 17.40                      | 17.50                | 15.20                      | 15.50                | 19.45                   | 19.6              |              |
|                  |                     | 64              | 5320                | 16.90         | 17.00        |       | 15.20               | 15.50         |              | 16.90               | 17.00         |              | 16.90                      | 17.00                | 15.30                      | 15.50                | 19.18                   | 19.3              |              |
|                  | 802.11n-VHT40 MCS0  | 54              | 5270                | 17.40         | 17.50        | 95.67 | 15.10               | 15.50         | 95.03        | 17.40               | 17.50         |              | 17.40                      | 17.50                | 15.20                      | 15.50                | 19.45                   | 19.6              | 95.66        |
|                  |                     | 62              | 5310                | 16.40         | 16.50        |       | 15.40               | 15.50         |              | 16.40               | 16.50         |              | 16.40                      | 16.50                | 15.40                      | 15.50                | 18.94                   | 19.0              |              |
|                  | 802.11ac-VHT20 MCS0 | 52              | 5260                | 17.10         | 17.50        |       | 15.00               | 15.50         |              | 17.20               | 17.50         |              | 17.20                      | 17.50                | 15.10                      | 15.50                | 19.29                   | 19.6              |              |
|                  |                     | 56              | 5280                | 17.30         | 17.50        | 97.69 | 15.00               | 15.50         | 97.95        | 17.30               | 17.50         |              | 17.30                      | 17.50                | 15.10                      | 15.50                | 19.35                   | 19.6              | 97.69        |
|                  |                     | 60              | 5300                | 17.30         | 17.50        |       | 15.00               | 15.50         |              | 17.30               | 17.50         |              | 17.30                      | 17.50                | 15.10                      | 15.50                | 19.35                   | 19.6              |              |
|                  |                     | 64              | 5320                | 16.80         | 17.00        |       | 15.10               | 15.50         |              | 16.80               | 17.00         |              | 16.80                      | 17.00                | 15.20                      | 15.50                | 19.08                   | 19.3              |              |
|                  | 802.11ac-VHT40 MCS0 | 54              | 5270                | 17.30         | 17.50        | 96.08 | 15.00               | 15.50         | 95.69        | 17.30               | 17.50         |              | 17.30                      | 17.50                | 15.10                      | 15.50                | 19.35                   | 19.6              | 95.69        |
|                  |                     | 62              | 5310                | 16.30         | 16.50        |       | 15.30               | 15.50         |              | 16.30               | 16.50         |              | 16.30                      | 16.50                | 15.30                      | 15.50                | 18.84                   | 19.0              |              |
|                  | 802.11ac-VHT80 MCS0 | 58              | 5290                | 15.90         | 16.00        | 92.68 | 15.10               | 15.50         | 91.94        | 15.90               | 16.00         |              | 15.90                      | 16.00                | 15.20                      | 15.50                | 18.57                   | 18.8              | 91.87        |





| Transmit Antenna |                     |         |                 |                     |               |              | Ant 4               |               |              | Ant 3               |               |              | Ant 4+3(4)          |               | Ant 4+3(3)          |               | Ant 4+3             |               |
|------------------|---------------------|---------|-----------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|--------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|
| 5.5GHz WLAN      | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit |
|                  | 802.11a 6Mbps       | 100     | 5500            | 15.90               | 16.00         | 97.84        | 17.50               | 18.50         | 97.83        | 15.80               | 16.00         | 18.20        | 18.50               | 20.17         | 20.4                | 98.08         | 20.17               | 20.4          |
|                  |                     | 116     | 5580            | 15.70               | 16.00         |              | 17.30               | 18.50         |              | 15.80               | 16.00         | 18.20        | 18.50               | 20.10         | 20.4                |               | 20.10               | 20.4          |
|                  |                     | 124     | 5620            | 15.80               | 16.00         |              | 17.40               | 18.50         |              | 15.80               | 16.00         | 18.20        | 18.50               | 20.17         | 20.4                |               | 20.17               | 20.4          |
|                  |                     | 132     | 5680            | 15.80               | 16.00         |              | 17.10               | 18.50         |              | 15.70               | 16.00         | 18.10        | 18.50               | 20.07         | 20.4                |               | 20.07               | 20.4          |
|                  | 802.11n-HT20 MCS0   | 144     | 5720            | 15.60               | 16.00         | 97.42        | 17.80               | 18.50         | 97.94        | 15.80               | 16.00         | 18.40        | 18.50               | 20.30         | 20.4                | 97.42         | 20.30               | 20.4          |
|                  |                     | 100     | 5500            | 15.80               | 16.00         |              | 17.90               | 18.50         |              | 15.90               | 16.00         | 18.40        | 18.50               | 20.34         | 20.4                |               | 20.34               | 20.4          |
|                  |                     | 116     | 5580            | 15.70               | 16.00         |              | 17.50               | 18.50         |              | 15.90               | 16.00         | 18.10        | 18.50               | 20.15         | 20.4                |               | 20.15               | 20.4          |
|                  |                     | 124     | 5620            | 15.80               | 16.00         |              | 17.20               | 18.50         |              | 15.90               | 16.00         | 18.10        | 18.50               | 20.15         | 20.4                |               | 20.15               | 20.4          |
|                  | 802.11n-HT40 MCS0   | 132     | 5660            | 15.70               | 16.00         | 95.67        | 18.10               | 18.50         | 95.03        | 15.90               | 16.00         | 18.10        | 18.50               | 20.15         | 20.4                | 95.66         | 20.15               | 20.4          |
|                  |                     | 144     | 5720            | 15.90               | 16.00         |              | 18.10               | 18.50         |              | 15.80               | 16.00         | 18.30        | 18.50               | 20.24         | 20.4                |               | 20.24               | 20.4          |
|                  |                     | 102     | 5510            | 15.90               | 16.00         |              | 16.50               | 17.00         |              | 15.80               | 16.00         | 16.60        | 17.00               | 19.23         | 19.5                |               | 19.23               | 19.5          |
|                  |                     | 110     | 5550            | 15.90               | 16.00         |              | 16.60               | 17.50         |              | 15.80               | 16.00         | 17.40        | 17.50               | 19.68         | 19.8                |               | 19.68               | 19.8          |
|                  | 802.11ac-VHT20 MCS0 | 126     | 5630            | 15.70               | 16.00         | 97.69        | 16.70               | 17.50         | 97.95        | 15.70               | 16.00         | 17.30        | 17.50               | 19.58         | 19.8                | 97.69         | 19.58               | 19.8          |
|                  |                     | 134     | 5670            | 15.70               | 16.00         |              | 17.20               | 17.50         |              | 15.60               | 16.00         | 17.10        | 17.50               | 19.42         | 19.8                |               | 19.42               | 19.8          |
|                  |                     | 142     | 5710            | 15.90               | 16.00         |              | 17.30               | 17.50         |              | 15.70               | 16.00         | 17.30        | 17.50               | 19.58         | 19.8                |               | 19.58               | 19.8          |
|                  |                     | 100     | 5500            | 15.70               | 16.00         |              | 17.80               | 18.50         | 95.69        | 15.80               | 16.00         | 18.30        | 18.50               | 20.24         | 20.4                | 95.69         | 20.24               | 20.4          |
|                  | 802.11ac-VHT40 MCS0 | 116     | 5580            | 15.60               | 16.00         | 96.08        | 17.40               | 18.50         |              | 15.80               | 16.00         | 18.00        | 18.50               | 20.05         | 20.4                |               | 20.05               | 20.4          |
|                  |                     | 124     | 5620            | 15.70               | 16.00         |              | 17.10               | 18.50         |              | 15.80               | 16.00         | 18.00        | 18.50               | 20.05         | 20.4                |               | 20.05               | 20.4          |
|                  |                     | 132     | 5660            | 15.60               | 16.00         |              | 17.90               | 18.50         |              | 15.80               | 16.00         | 18.00        | 18.50               | 20.05         | 20.4                |               | 20.05               | 20.4          |
|                  |                     | 144     | 5720            | 15.80               | 16.00         |              | 18.00               | 18.50         |              | 15.70               | 16.00         | 18.20        | 18.50               | 20.14         | 20.4                |               | 20.14               | 20.4          |
|                  | 802.11ac-VHT80 MCS0 | 102     | 5510            | 15.80               | 16.00         | 92.68        | 16.40               | 17.00         | 91.94        | 15.70               | 16.00         | 16.50        | 17.00               | 19.13         | 19.5                | 91.87         | 19.13               | 19.5          |
|                  |                     | 110     | 5550            | 15.80               | 16.00         |              | 16.50               | 17.50         |              | 15.70               | 16.00         | 17.30        | 17.50               | 19.58         | 19.8                |               | 19.58               | 19.8          |
|                  |                     | 126     | 5630            | 15.60               | 16.00         |              | 16.60               | 17.50         |              | 15.60               | 16.00         | 17.20        | 17.50               | 19.48         | 19.8                |               | 19.48               | 19.8          |
|                  |                     | 134     | 5670            | 15.60               | 16.00         |              | 17.10               | 17.50         |              | 15.50               | 16.00         | 17.00        | 17.50               | 19.32         | 19.8                |               | 19.32               | 19.8          |
| 5.8GHz WLAN      | 802.11a 6Mbps       | 142     | 5710            | 15.80               | 16.00         | 92.68        | 17.20               | 17.50         | 91.94        | 15.60               | 16.00         | 17.20        | 17.50               | 19.48         | 19.8                | 91.87         | 19.48               | 19.8          |
|                  |                     | 106     | 5530            | 15.40               | 16.00         |              | 15.30               | 16.00         |              | 15.60               | 16.00         | 15.50        | 16.00               | 18.56         | 19.0                |               | 18.56               | 19.0          |
|                  |                     | 122     | 5610            | 15.90               | 16.00         |              | 16.80               | 17.50         |              | 15.70               | 16.00         | 17.10        | 17.50               | 19.47         | 19.8                |               | 19.47               | 19.8          |
|                  |                     | 138     | 5690            | 15.80               | 16.00         |              | 17.00               | 17.50         |              | 15.70               | 16.00         | 17.00        | 17.50               | 19.41         | 19.8                |               | 19.41               | 19.8          |
|                  | Mode                | Channel | Frequency (MHz) | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Duty Cycle % | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit |
|                  | 802.11a 6Mbps       | 149     | 5745            | 16.30               | 16.50         | 97.84        | 18.20               | 18.50         | 97.83        | 16.40               | 16.50         | 18.10        | 18.50               | 20.34         | 20.6                | 98.08         | 20.34               | 20.6          |
|                  |                     | 157     | 5785            | 16.40               | 16.50         |              | 18.00               | 18.50         |              | 16.20               | 16.50         | 18.30        | 18.50               | 20.39         | 20.6                |               | 20.39               | 20.6          |
|                  |                     | 165     | 5825            | 16.30               | 16.50         |              | 16.30               | 17.00         |              | 16.30               | 16.50         | 16.90        | 17.00               | 19.62         | 19.8                |               | 19.62               | 19.8          |
|                  | 802.11n-HT20 MCS0   | 149     | 5745            | 16.30               | 16.50         | 97.42        | 18.10               | 18.50         | 97.94        | 16.40               | 16.50         | 18.40        | 18.50               | 20.52         | 20.6                | 97.42         | 20.52               | 20.6          |
|                  |                     | 157     | 5785            | 16.30               | 16.50         |              | 18.00               | 18.50         |              | 16.10               | 16.50         | 18.10        | 18.50               | 20.22         | 20.6                |               | 20.22               | 20.6          |
|                  |                     | 165     | 5825            | 16.20               | 16.50         |              | 17.80               | 18.50         |              | 16.30               | 16.50         | 18.40        | 18.50               | 20.49         | 20.6                |               | 20.49               | 20.6          |
|                  | 802.11n-HT40 MCS0   | 151     | 5755            | 16.20               | 16.50         | 95.67        | 17.10               | 17.50         | 95.03        | 16.40               | 16.50         | 17.40        | 17.50               | 19.94         | 20.0                | 95.66         | 19.94               | 20.0          |
|                  |                     | 159     | 5795            | 16.20               | 16.50         |              | 17.00               | 17.50         |              | 16.40               | 16.50         | 17.30        | 17.50               | 19.88         | 20.0                |               | 19.88               | 20.0          |
|                  |                     | 149     | 5745            | 16.20               | 16.50         |              | 18.00               | 18.50         |              | 16.30               | 16.50         | 18.30        | 18.50               | 20.42         | 20.6                |               | 20.42               | 20.6          |
|                  | 802.11ac-VHT20 MCS0 | 157     | 5785            | 16.20               | 16.50         | 97.69        | 17.90               | 18.50         | 97.95        | 16.00               | 16.50         | 18.50        | 18.50               | 20.44         | 20.6                | 97.69         | 20.44               | 20.6          |
|                  |                     | 165     | 5825            | 16.10               | 16.50         |              | 17.70               | 18.50         |              | 16.20               | 16.50         | 18.40        | 18.50               | 20.45         | 20.6                |               | 20.45               | 20.6          |
|                  |                     | 151     | 5755            | 16.10               | 16.50         |              | 17.00               | 17.50         |              | 16.30               | 16.50         | 17.40        | 17.50               | 19.90         | 20.0                |               | 19.90               | 20.0          |
|                  | 802.11ac-VHT40 MCS0 | 159     | 5795            | 16.10               | 16.50         | 96.08        | 16.90               | 17.50         | 95.69        | 16.30               | 16.50         | 17.30        | 17.50               | 19.84         | 20.0                | 95.69         | 19.84               | 20.0          |
|                  |                     | 155     | 5775            | 16.10               | 16.50         |              | 17.20               | 17.50         |              | 16.30               | 16.50         | 17.40        | 17.50               | 19.90         | 20.0                |               | 19.90               | 20.0          |

## General Note:

1.For 2.4GHz Bluetooth SAR testing was selected 1Mbps due to its highest average power and duty cycle is 77.13% considered in SAR testing, and the duty cycle would be scaled to theoretical 83.3% in reported SAR calculation.

**Bluetooth Default Power Table**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 16.99               | 17.32 | 17.60 |
|               | CH 39   | 2441            | 17.83               | 17.91 | 17.93 |
|               | CH 78   | 2480            | 17.89               | 17.96 | 17.98 |
| Tune-up Limit |         |                 | 18                  | 18    | 18    |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |
|---------------|---------|-----------------|---------------------|-------|
|               |         |                 | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402            | 10.90               | 10.90 |
|               | CH 19   | 2440            | 11.00               | 11.00 |
|               | CH 39   | 2480            | 10.70               | 10.80 |
| Tune-up Limit |         |                 | 11.5                | 11.5  |

**Bluetooth Power Table 1**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 16.99               | 17.32 | 17.60 |
|               | CH 39   | 2441            | 17.83               | 17.91 | 17.93 |
|               | CH 78   | 2480            | 17.89               | 17.96 | 17.98 |
| Tune-up Limit |         |                 | 18                  | 18    | 18    |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |
|---------------|---------|-----------------|---------------------|-------|
|               |         |                 | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402            | 10.90               | 10.90 |
|               | CH 19   | 2440            | 11.00               | 11.00 |
|               | CH 39   | 2480            | 10.70               | 10.80 |
| Tune-up Limit |         |                 | 11.5                | 11.5  |

**Bluetooth Power Table 2**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 10.28               | 9.52  | 9.55  |
|               | CH 39   | 2441            | 10.61               | 9.51  | 9.56  |
|               | CH 78   | 2480            | 9.53                | 9.52  | 9.51  |
| Tune-up Limit |         |                 | 11.5                | 11.5  | 11.5  |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |
|---------------|---------|-----------------|---------------------|-------|
|               |         |                 | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402            | 10.90               | 10.90 |
|               | CH 19   | 2440            | 11.00               | 11.00 |
|               | CH 39   | 2480            | 10.70               | 10.80 |
| Tune-up Limit |         |                 | 11.5                | 11.5  |

**Bluetooth Power Table 3**

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |       |
|---------------|---------|-----------------|---------------------|-------|-------|
|               |         |                 | 1Mbps               | 2Mbps | 3Mbps |
| BR / EDR      | CH 00   | 2402            | 16.55               | 16.27 | 16.25 |
|               | CH 39   | 2441            | 16.52               | 16.43 | 16.98 |
|               | CH 78   | 2480            | 15.10               | 15.00 | 15.57 |
| Tune-up Limit |         |                 | 17                  | 17    | 17    |

| Mode          | Channel | Frequency (MHz) | Average power (dBm) |       |
|---------------|---------|-----------------|---------------------|-------|
|               |         |                 | 1Mbps               | 2Mbps |
| LE            | CH 00   | 2402            | 10.90               | 10.90 |
|               | CH 19   | 2440            | 11.00               | 11.00 |
|               | CH 39   | 2480            | 10.70               | 10.80 |
| Tune-up Limit |         |                 | 11.5                | 11.5  |

