

# Appendix E

## Conducted RF Output Power Table

|                                   |
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# 1. Conducted Power of GSM

| GSM 850 Ant0 Full Power |            |       |       |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |       |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                 |            | 128   | 190   | 251   |         |                  | 128                             | 190   | 251   |         |
| GSM(GMSK)               | GSM        | 30.43 | 31.09 | 30.94 | 32.00   | -9.19            | 21.24                           | 21.90 | 21.75 | 22.81   |
| GPRS/EGPRS (GMSK)       | 1 TX Slot  | 30.59 | 31.25 | 31.00 | 32.00   | -9.19            | 21.40                           | 22.06 | 21.81 | 22.81   |
|                         | 2 TX Slots | 28.09 | 28.48 | 28.41 | 29.50   | -6.18            | 21.91                           | 22.30 | 22.23 | 23.32   |
|                         | 3 TX Slots | 26.41 | 26.70 | 26.61 | 27.50   | -4.42            | 21.99                           | 22.28 | 22.19 | 23.08   |
|                         | 4 TX Slots | 24.19 | 24.49 | 24.42 | 25.50   | -3.17            | 21.02                           | 21.32 | 21.25 | 22.33   |
| EGPRS(8PSK)             | 1 TX Slot  | 24.21 | 25.03 | 24.66 | 26.00   | -9.19            | 15.02                           | 15.84 | 15.47 | 16.81   |
|                         | 2 TX Slots | 22.93 | 23.55 | 23.57 | 24.50   | -6.18            | 16.75                           | 17.37 | 17.39 | 18.32   |
|                         | 3 TX Slots | 20.91 | 21.45 | 21.26 | 22.50   | -4.42            | 16.49                           | 17.03 | 16.84 | 18.08   |
|                         | 4 TX Slots | 18.03 | 18.57 | 18.41 | 19.50   | -3.17            | 14.86                           | 15.40 | 15.24 | 16.33   |

| GSM 850 Ant0 Receiver on |            |       |       |       |         |                  |                                 |       |       |         |
|--------------------------|------------|-------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm)  |            |       |       |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                  |            | 128   | 190   | 251   |         |                  | 128                             | 190   | 251   |         |
| GSM(GMSK)                | GSM        | 29.51 | 29.58 | 29.46 | 30.00   | -9.19            | 20.32                           | 20.39 | 20.27 | 20.81   |
| GPRS/EGPRS (GMSK)        | 1 TX Slot  | 29.46 | 29.58 | 29.43 | 30.00   | -9.19            | 20.27                           | 20.39 | 20.24 | 20.81   |
|                          | 2 TX Slots | 26.33 | 26.35 | 26.18 | 27.50   | -6.18            | 20.15                           | 20.17 | 20.00 | 21.32   |
|                          | 3 TX Slots | 24.56 | 24.61 | 24.41 | 25.50   | -4.42            | 20.14                           | 20.19 | 19.99 | 21.08   |
|                          | 4 TX Slots | 22.07 | 22.12 | 22.11 | 23.50   | -3.17            | 18.90                           | 18.95 | 18.94 | 20.33   |
| EGPRS(8PSK)              | 1 TX Slot  | 23.63 | 23.72 | 23.54 | 24.00   | -9.19            | 14.44                           | 14.53 | 14.35 | 14.81   |
|                          | 2 TX Slots | 21.55 | 21.57 | 21.42 | 22.50   | -6.18            | 15.37                           | 15.39 | 15.24 | 16.32   |
|                          | 3 TX Slots | 19.60 | 19.81 | 19.72 | 20.50   | -4.42            | 15.18                           | 15.39 | 15.30 | 16.08   |
|                          | 4 TX Slots | 16.67 | 16.73 | 16.63 | 17.50   | -3.17            | 13.50                           | 13.56 | 13.46 | 14.33   |

| GSM 1900 Ant0 Full Power |            |       |       |       |         |                  |                                 |       |       |         |
|--------------------------|------------|-------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm)  |            |       |       |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                  |            | 512   | 661   | 810   |         |                  | 512                             | 661   | 810   |         |
| GSM(GMSK)                | GSM        | 30.09 | 30.22 | 30.16 | 31.00   | -9.19            | 20.90                           | 21.03 | 20.97 | 21.81   |
| GPRS/EGPRS (GMSK)        | 1 TX Slot  | 29.91 | 30.03 | 30.02 | 31.00   | -9.19            | 20.72                           | 20.84 | 20.83 | 21.81   |
|                          | 2 TX Slots | 27.33 | 27.51 | 27.45 | 28.00   | -6.18            | 21.15                           | 21.33 | 21.27 | 21.82   |
|                          | 3 TX Slots | 25.61 | 25.54 | 25.62 | 26.00   | -4.42            | 21.19                           | 21.12 | 21.20 | 21.58   |
|                          | 4 TX Slots | 24.14 | 24.07 | 24.16 | 24.50   | -3.17            | 20.97                           | 20.90 | 20.99 | 21.33   |
| EGPRS(8PSK)              | 1 TX Slot  | 25.89 | 25.96 | 25.95 | 27.00   | -9.19            | 16.70                           | 16.77 | 16.76 | 17.81   |
|                          | 2 TX Slots | 24.18 | 24.26 | 24.22 | 25.00   | -6.18            | 18.00                           | 18.08 | 18.04 | 18.82   |
|                          | 3 TX Slots | 22.32 | 22.86 | 22.28 | 24.00   | -4.42            | 17.90                           | 18.44 | 17.86 | 19.58   |
|                          | 4 TX Slots | 20.16 | 20.31 | 20.21 | 21.50   | -3.17            | 16.99                           | 17.14 | 17.04 | 18.33   |

| GSM 1900 Ant0 Receiver on |            |       |       |       |         |                  |                                 |       |       |         |
|---------------------------|------------|-------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm)   |            |       |       |       | Tune up | Division Factors | Frame-Average Output Power(dBm) |       |       | Tune up |
| Channel                   |            | 512   | 661   | 810   |         |                  | 512                             | 661   | 810   |         |
| GSM(GMSK)                 | GSM        | 26.97 | 27.08 | 26.95 | 28.00   | -9.19            | 17.78                           | 17.89 | 17.76 | 18.81   |
| GPRS/EGPRS (GMSK)         | 1 TX Slot  | 26.90 | 27.09 | 26.98 | 28.00   | -9.19            | 17.71                           | 17.90 | 17.79 | 18.81   |
|                           | 2 TX Slots | 23.71 | 23.83 | 23.80 | 25.00   | -6.18            | 17.53                           | 17.65 | 17.62 | 18.82   |

|             |            |       |       |       |       |       |       |       |       |       |
|-------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|             | 3 TX Slots | 22.08 | 22.27 | 22.24 | 23.00 | -4.42 | 17.66 | 17.85 | 17.82 | 18.58 |
|             | 4 TX Slots | 20.94 | 21.02 | 20.85 | 21.50 | -3.17 | 17.77 | 17.85 | 17.68 | 18.33 |
| EGPRS(8PSK) | 1 TX Slot  | 23.21 | 23.24 | 23.04 | 24.00 | -9.19 | 14.02 | 14.05 | 13.85 | 14.81 |
|             | 2 TX Slots | 21.17 | 21.31 | 21.15 | 22.00 | -6.18 | 14.99 | 15.13 | 14.97 | 15.82 |
|             | 3 TX Slots | 19.07 | 19.23 | 19.21 | 21.00 | -4.42 | 14.65 | 14.81 | 14.79 | 16.58 |
|             | 4 TX Slots | 17.14 | 17.28 | 17.16 | 18.50 | -3.17 | 13.97 | 14.11 | 13.99 | 15.33 |

## 2. Conducted Power of WCDMA

| WCDMA Band II Ant0 Full Power |              |       |       |       |         |
|-------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)  |              |       |       |       |         |
| Channel                       |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                         | 12.2kbps RMC | 22.99 | 23.13 | 23.12 | 24.00   |
| HSDPA                         | Subtest 1    | 21.27 | 21.36 | 21.35 | 22.50   |
|                               | Subtest 2    | 21.27 | 21.39 | 21.31 | 22.50   |
|                               | Subtest 3    | 21.28 | 21.36 | 21.39 | 22.50   |
|                               | Subtest 4    | 21.29 | 21.31 | 21.34 | 22.50   |
| HSUPA                         | Subtest 1    | 19.90 | 19.81 | 19.79 | 21.00   |
|                               | Subtest 2    | 19.45 | 19.99 | 19.98 | 21.00   |
|                               | Subtest 3    | 19.70 | 19.98 | 19.98 | 21.00   |
|                               | Subtest 4    | 19.46 | 19.53 | 19.98 | 21.00   |
|                               | Subtest 5    | 19.74 | 19.56 | 19.97 | 21.00   |

| WCDMA Band II Ant0 Receiver on |              |       |       |       |         |
|--------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)   |              |       |       |       |         |
| Channel                        |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                          | 12.2kbps RMC | 18.31 | 18.54 | 18.44 | 19.50   |
| HSDPA                          | Subtest 1    | 16.76 | 16.87 | 16.81 | 18.00   |
|                                | Subtest 2    | 16.81 | 16.88 | 16.94 | 18.00   |
|                                | Subtest 3    | 16.74 | 16.89 | 16.81 | 18.00   |
|                                | Subtest 4    | 16.67 | 16.99 | 16.79 | 18.00   |
| HSUPA                          | Subtest 1    | 15.17 | 15.35 | 15.41 | 16.50   |
|                                | Subtest 2    | 15.12 | 15.37 | 15.37 | 16.50   |
|                                | Subtest 3    | 15.29 | 15.34 | 15.31 | 16.50   |
|                                | Subtest 4    | 15.29 | 15.40 | 15.26 | 16.50   |
|                                | Subtest 5    | 15.18 | 15.47 | 15.38 | 16.50   |

| WCDMA Band II Ant0 Hotspot on |              |       |       |       |         |
|-------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)  |              |       |       |       |         |
| Channel                       |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                         | 12.2kbps RMC | 19.68 | 19.74 | 19.63 | 20.50   |
| HSDPA                         | Subtest 1    | 17.89 | 17.88 | 18.02 | 19.00   |
|                               | Subtest 2    | 17.87 | 17.96 | 17.92 | 19.00   |
|                               | Subtest 3    | 17.94 | 17.98 | 17.90 | 19.00   |
|                               | Subtest 4    | 17.93 | 17.99 | 17.83 | 19.00   |
| HSUPA                         | Subtest 1    | 16.43 | 16.31 | 16.40 | 17.50   |
|                               | Subtest 2    | 16.04 | 16.56 | 16.50 | 17.50   |
|                               | Subtest 3    | 16.23 | 16.67 | 16.56 | 17.50   |
|                               | Subtest 4    | 16.15 | 16.02 | 16.67 | 17.50   |

|  |           |       |       |       |       |
|--|-----------|-------|-------|-------|-------|
|  | Subtest 5 | 16.33 | 16.21 | 16.52 | 17.50 |
|--|-----------|-------|-------|-------|-------|

| WCDMA Band II Ant0 Sensor on |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 20.32 | 20.36 | 20.29 | 21.00   |
| HSDPA                        | Subtest 1    | 18.44 | 18.51 | 18.64 | 19.50   |
|                              | Subtest 2    | 18.47 | 18.62 | 18.45 | 19.50   |
|                              | Subtest 3    | 18.49 | 18.60 | 18.40 | 19.50   |
|                              | Subtest 4    | 18.43 | 18.60 | 18.47 | 19.50   |
| HSUPA                        | Subtest 1    | 17.08 | 16.89 | 17.05 | 18.00   |
|                              | Subtest 2    | 16.65 | 17.14 | 17.16 | 18.00   |
|                              | Subtest 3    | 16.77 | 17.25 | 17.23 | 18.00   |
|                              | Subtest 4    | 16.76 | 16.56 | 17.33 | 18.00   |
|                              | Subtest 5    | 16.85 | 16.88 | 17.22 | 18.00   |

| WCDMA Band IV Ant0 Full Power |              |       |       |       |         |
|-------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)  |              |       |       |       |         |
| Channel                       |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                         | 12.2kbps RMC | 22.66 | 22.76 | 22.69 | 23.50   |
| HSDPA                         | Subtest 1    | 20.95 | 20.95 | 20.86 | 22.00   |
|                               | Subtest 2    | 20.94 | 20.93 | 20.85 | 22.00   |
|                               | Subtest 3    | 20.96 | 20.94 | 20.86 | 22.00   |
|                               | Subtest 4    | 20.95 | 20.80 | 20.87 | 22.00   |
| HSUPA                         | Subtest 1    | 19.54 | 19.39 | 19.47 | 20.50   |
|                               | Subtest 2    | 19.54 | 19.54 | 19.24 | 20.50   |
|                               | Subtest 3    | 19.55 | 19.14 | 19.44 | 20.50   |
|                               | Subtest 4    | 19.33 | 19.39 | 19.44 | 20.50   |
|                               | Subtest 5    | 19.11 | 19.55 | 19.46 | 20.50   |

| WCDMA Band IV Ant0 Receiver on |              |       |       |       |         |
|--------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)   |              |       |       |       |         |
| Channel                        |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                          | 12.2kbps RMC | 18.86 | 19.06 | 18.92 | 20.00   |
| HSDPA                          | Subtest 1    | 17.35 | 17.54 | 17.37 | 18.50   |
|                                | Subtest 2    | 17.26 | 17.38 | 17.37 | 18.50   |
|                                | Subtest 3    | 17.26 | 17.42 | 17.33 | 18.50   |
|                                | Subtest 4    | 17.17 | 17.41 | 17.30 | 18.50   |
| HSUPA                          | Subtest 1    | 15.75 | 15.99 | 15.81 | 17.00   |
|                                | Subtest 2    | 15.80 | 15.96 | 15.84 | 17.00   |
|                                | Subtest 3    | 15.85 | 15.94 | 15.77 | 17.00   |
|                                | Subtest 4    | 15.69 | 15.98 | 15.81 | 17.00   |
|                                | Subtest 5    | 15.79 | 15.95 | 15.91 | 17.00   |

| WCDMA Band IV Ant0 Hotspot on |              |       |       |       |         |
|-------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)  |              |       |       |       |         |
| Channel                       |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                         | 12.2kbps RMC | 20.67 | 20.93 | 20.74 | 21.50   |
| HSDPA                         | Subtest 1    | 19.10 | 19.05 | 19.05 | 20.00   |

|       |           |       |       |       |       |
|-------|-----------|-------|-------|-------|-------|
| HSUPA | Subtest 2 | 19.07 | 19.09 | 19.02 | 20.00 |
|       | Subtest 3 | 19.14 | 19.10 | 18.89 | 20.00 |
|       | Subtest 4 | 18.96 | 18.91 | 18.91 | 20.00 |
|       | Subtest 1 | 17.67 | 17.52 | 17.56 | 18.50 |
|       | Subtest 2 | 17.69 | 17.65 | 17.40 | 18.50 |
|       | Subtest 3 | 17.54 | 17.24 | 17.45 | 18.50 |
|       | Subtest 4 | 17.42 | 17.51 | 17.50 | 18.50 |
|       | Subtest 5 | 17.28 | 17.65 | 17.50 | 18.50 |

| WCDMA Band V Ant0 Full Power |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 22.64 | 22.83 | 22.81 | 23.50   |
| HSDPA                        | Subtest 1    | 20.92 | 21.08 | 21.10 | 22.00   |
|                              | Subtest 2    | 20.88 | 21.07 | 21.08 | 22.00   |
|                              | Subtest 3    | 20.89 | 21.07 | 21.11 | 22.00   |
|                              | Subtest 4    | 20.90 | 21.06 | 21.08 | 22.00   |
| HSUPA                        | Subtest 1    | 19.49 | 19.67 | 19.48 | 20.50   |
|                              | Subtest 2    | 19.49 | 19.67 | 19.48 | 20.50   |
|                              | Subtest 3    | 19.49 | 19.67 | 19.45 | 20.50   |
|                              | Subtest 4    | 19.29 | 19.24 | 19.48 | 20.50   |
|                              | Subtest 5    | 19.28 | 19.49 | 19.65 | 20.50   |

| WCDMA Band V Ant0 Receiver on |              |       |       |       |         |
|-------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)  |              |       |       |       |         |
| Channel                       |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                         | 12.2kbps RMC | 20.71 | 20.83 | 20.77 | 21.50   |
| HSDPA                         | Subtest 1    | 19.11 | 19.31 | 19.20 | 20.00   |
|                               | Subtest 2    | 19.01 | 19.20 | 19.10 | 20.00   |
|                               | Subtest 3    | 19.03 | 19.26 | 19.09 | 20.00   |
|                               | Subtest 4    | 19.17 | 19.21 | 19.07 | 20.00   |
| HSUPA                         | Subtest 1    | 17.64 | 17.69 | 17.62 | 18.50   |
|                               | Subtest 2    | 17.58 | 17.82 | 17.70 | 18.50   |
|                               | Subtest 3    | 17.62 | 17.79 | 17.74 | 18.50   |
|                               | Subtest 4    | 17.61 | 17.65 | 17.77 | 18.50   |
|                               | Subtest 5    | 17.59 | 17.83 | 17.72 | 18.50   |

### 3. Conducted Power of LTE

| LTE Band 2 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 22.84                | 23.04   | 22.91   | 24.00   |
|                            |            | 1       | 2         | 22.87                | 23.00   | 22.97   | 24.00   |
|                            |            | 1       | 5         | 22.79                | 22.92   | 22.79   | 24.00   |
|                            |            | 3       | 0         | 22.78                | 22.90   | 22.80   | 24.00   |
|                            |            | 3       | 2         | 22.83                | 22.97   | 22.84   | 24.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 3         | 22.77   | 22.93   | 22.81   | 24.00   |
|           |            | 6       | 0         | 21.87   | 22.01   | 21.92   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.06   | 22.20   | 22.02   | 23.00   |
|           |            | 1       | 2         | 22.11   | 22.13   | 22.19   | 23.00   |
|           |            | 1       | 5         | 21.95   | 21.97   | 22.13   | 23.00   |
|           |            | 3       | 0         | 22.08   | 22.10   | 21.95   | 23.00   |
|           |            | 3       | 2         | 22.04   | 22.17   | 21.95   | 23.00   |
|           |            | 3       | 3         | 21.98   | 22.07   | 21.94   | 23.00   |
|           |            | 6       | 0         | 20.94   | 21.07   | 21.11   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.75   | 21.01   | 20.74   | 22.00   |
|           |            | 1       | 2         | 20.74   | 20.89   | 20.84   | 22.00   |
|           |            | 1       | 5         | 20.65   | 20.91   | 20.77   | 22.00   |
|           |            | 3       | 0         | 20.64   | 20.82   | 20.71   | 22.00   |
|           |            | 3       | 2         | 20.67   | 20.95   | 20.77   | 22.00   |
|           |            | 3       | 3         | 20.74   | 20.76   | 20.68   | 22.00   |
|           |            | 6       | 0         | 19.78   | 19.97   | 19.92   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18615   | 18900   | 19185   |         |
| 3MHz      | QPSK       | 1       | 0         | 23.01   | 23.12   | 23.11   | 24.00   |
|           |            | 1       | 7         | 22.87   | 22.99   | 23.02   | 24.00   |
|           |            | 1       | 14        | 22.76   | 22.98   | 22.97   | 24.00   |
|           |            | 8       | 0         | 22.08   | 22.17   | 22.16   | 23.00   |
|           |            | 8       | 4         | 22.08   | 22.19   | 22.15   | 23.00   |
|           |            | 8       | 7         | 21.96   | 22.08   | 22.02   | 23.00   |
|           |            | 15      | 0         | 22.00   | 22.17   | 22.13   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.65   | 22.28   | 22.49   | 23.00   |
|           |            | 1       | 7         | 21.95   | 22.02   | 22.10   | 23.00   |
|           |            | 1       | 14        | 21.92   | 22.58   | 22.16   | 23.00   |
|           |            | 8       | 0         | 21.31   | 21.26   | 21.26   | 22.00   |
|           |            | 8       | 4         | 21.25   | 21.40   | 21.24   | 22.00   |
|           |            | 8       | 7         | 21.18   | 21.27   | 21.15   | 22.00   |
|           |            | 15      | 0         | 21.19   | 21.29   | 21.27   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.95   | 21.02   | 21.06   | 22.00   |
|           |            | 1       | 7         | 20.75   | 20.89   | 20.93   | 22.00   |
|           |            | 1       | 14        | 20.59   | 20.82   | 20.88   | 22.00   |
|           |            | 8       | 0         | 20.07   | 20.03   | 20.06   | 21.00   |
|           |            | 8       | 4         | 19.88   | 20.15   | 20.09   | 21.00   |
|           |            | 8       | 7         | 19.77   | 19.90   | 19.94   | 21.00   |
|           |            | 15      | 0         | 19.99   | 20.12   | 19.99   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.03   | 23.09   | 23.14   | 24.00   |
|           |            | 1       | 13        | 23.03   | 23.12   | 23.01   | 24.00   |
|           |            | 1       | 24        | 22.92   | 22.99   | 22.92   | 24.00   |
|           |            | 12      | 0         | 22.15   | 22.14   | 22.25   | 23.00   |
|           |            | 12      | 6         | 22.14   | 22.21   | 22.18   | 23.00   |
|           |            | 12      | 13        | 22.01   | 22.14   | 22.08   | 23.00   |
|           |            | 25      | 0         | 22.11   | 22.20   | 22.14   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.97   | 22.41   | 22.34   | 23.00   |

|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  |                   | 1              | 13               | 22.05          | 22.33          | 22.30          | 23.00          |
|                  |                   | 1              | 24               | 21.85          | 22.32          | 22.17          | 23.00          |
|                  |                   | 12             | 0                | 21.18          | 21.23          | 21.22          | 22.00          |
|                  |                   | 12             | 6                | 21.13          | 21.27          | 21.23          | 22.00          |
|                  |                   | 12             | 13               | 21.07          | 21.15          | 21.18          | 22.00          |
|                  |                   | 25             | 0                | 21.15          | 21.17          | 21.16          | 22.00          |
|                  | 64QAM             | 1              | 0                | 20.99          | 21.02          | 21.11          | 22.00          |
|                  |                   | 1              | 13               | 20.86          | 21.00          | 20.92          | 22.00          |
|                  |                   | 1              | 24               | 20.84          | 20.91          | 20.91          | 22.00          |
|                  |                   | 12             | 0                | 20.12          | 20.02          | 20.22          | 21.00          |
|                  |                   | 12             | 6                | 20.03          | 20.21          | 20.05          | 21.00          |
|                  |                   | 12             | 13               | 19.87          | 20.03          | 20.06          | 21.00          |
|                  |                   | 25             | 0                | 20.00          | 20.10          | 20.08          | 21.00          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
|                  |                   |                |                  | 18650          | 18900          | 19150          |                |
| <b>10MHz</b>     | QPSK              | 1              | 0                | 23.05          | 23.07          | 23.13          | 24.00          |
|                  |                   | 1              | 25               | 22.97          | 23.08          | 23.07          | 24.00          |
|                  |                   | 1              | 49               | 22.92          | 23.06          | 23.00          | 24.00          |
|                  |                   | 25             | 0                | 22.15          | 22.17          | 22.23          | 23.00          |
|                  |                   | 25             | 13               | 22.14          | 22.24          | 22.20          | 23.00          |
|                  |                   | 25             | 25               | 22.09          | 22.19          | 22.17          | 23.00          |
|                  |                   | 50             | 0                | 22.15          | 22.21          | 22.18          | 23.00          |
|                  | 16QAM             | 1              | 0                | 22.72          | 22.79          | 22.43          | 23.00          |
|                  |                   | 1              | 25               | 22.59          | 22.76          | 22.33          | 23.00          |
|                  |                   | 1              | 49               | 22.68          | 22.70          | 22.64          | 23.00          |
|                  |                   | 25             | 0                | 21.24          | 21.24          | 21.24          | 22.00          |
|                  |                   | 25             | 13               | 21.21          | 21.31          | 21.23          | 22.00          |
|                  |                   | 25             | 25               | 21.15          | 21.25          | 21.10          | 22.00          |
|                  |                   | 50             | 0                | 21.14          | 21.26          | 21.09          | 22.00          |
|                  | 64QAM             | 1              | 0                | 20.93          | 20.89          | 20.97          | 22.00          |
|                  |                   | 1              | 25               | 20.79          | 21.04          | 21.03          | 22.00          |
|                  |                   | 1              | 49               | 20.74          | 21.00          | 20.82          | 22.00          |
|                  |                   | 25             | 0                | 20.11          | 20.07          | 20.23          | 21.00          |
|                  |                   | 25             | 13               | 20.13          | 20.12          | 20.13          | 21.00          |
|                  |                   | 25             | 25               | 19.99          | 20.11          | 20.08          | 21.00          |
|                  |                   | 50             | 0                | 19.99          | 20.17          | 20.07          | 21.00          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
|                  |                   |                |                  | 18675          | 18900          | 19125          |                |
| <b>15MHz</b>     | QPSK              | 1              | 0                | 22.75          | 22.93          | 22.93          | 24.00          |
|                  |                   | 1              | 38               | 22.79          | 22.94          | 22.98          | 24.00          |
|                  |                   | 1              | 74               | 22.83          | 22.98          | 22.90          | 24.00          |
|                  |                   | 36             | 0                | 21.87          | 22.01          | 22.08          | 23.00          |
|                  |                   | 36             | 18               | 21.95          | 21.97          | 22.05          | 23.00          |
|                  |                   | 36             | 39               | 21.95          | 22.05          | 22.08          | 23.00          |
|                  |                   | 75             | 0                | 21.89          | 22.11          | 22.05          | 23.00          |
|                  | 16QAM             | 1              | 0                | 22.12          | 22.43          | 22.64          | 23.00          |
|                  |                   | 1              | 38               | 22.13          | 22.35          | 22.60          | 23.00          |
|                  |                   | 1              | 74               | 22.10          | 22.35          | 22.54          | 23.00          |
|                  |                   | 36             | 0                | 20.96          | 21.04          | 21.19          | 22.00          |
|                  |                   | 36             | 18               | 21.02          | 21.00          | 21.10          | 22.00          |
|                  |                   | 36             | 39               | 21.00          | 21.07          | 21.10          | 22.00          |

|           | 64QAM      | 75      | 0         | 21.08   | 21.10   | 21.11   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 20.61   | 20.92   | 20.85   | 22.00   |
|           |            | 1       | 38        | 20.76   | 20.82   | 20.88   | 22.00   |
|           |            | 1       | 74        | 20.80   | 20.91   | 20.81   | 22.00   |
|           |            | 36      | 0         | 19.84   | 19.85   | 19.91   | 21.00   |
|           |            | 36      | 18        | 19.87   | 19.79   | 19.89   | 21.00   |
|           |            | 36      | 39        | 19.81   | 19.94   | 19.96   | 21.00   |
|           |            | 75      | 0         | 19.79   | 20.10   | 19.97   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.85   | 23.15   | 23.02   | 24.00   |
|           |            | 1       | 50        | 22.82   | 22.91   | 22.99   | 24.00   |
|           |            | 1       | 99        | 22.86   | 22.96   | 22.91   | 24.00   |
|           |            | 50      | 0         | 21.94   | 22.03   | 22.09   | 23.00   |
|           |            | 50      | 25        | 22.01   | 22.05   | 22.09   | 23.00   |
|           |            | 50      | 50        | 21.97   | 22.01   | 22.07   | 23.00   |
|           |            | 100     | 0         | 22.02   | 22.07   | 22.12   | 23.00   |
|           |            | 1       | 0         | 22.19   | 22.16   | 22.28   | 23.00   |
|           | 16QAM      | 1       | 50        | 22.13   | 22.17   | 22.27   | 23.00   |
|           |            | 1       | 99        | 22.19   | 22.25   | 22.15   | 23.00   |
|           |            | 50      | 0         | 20.95   | 21.01   | 21.07   | 22.00   |
|           |            | 50      | 25        | 21.03   | 21.11   | 21.02   | 22.00   |
|           |            | 50      | 50        | 20.97   | 21.06   | 20.97   | 22.00   |
|           |            | 100     | 0         | 21.07   | 21.12   | 21.03   | 22.00   |
|           |            | 1       | 0         | 20.68   | 20.92   | 20.86   | 22.00   |
|           |            | 1       | 50        | 20.74   | 20.76   | 20.79   | 22.00   |
|           | 64QAM      | 1       | 99        | 20.74   | 20.87   | 20.75   | 22.00   |
|           |            | 50      | 0         | 19.84   | 19.91   | 19.95   | 21.00   |
|           |            | 50      | 25        | 19.84   | 20.05   | 20.03   | 21.00   |
|           |            | 50      | 50        | 19.91   | 19.88   | 19.94   | 21.00   |
|           |            | 100     | 0         | 20.01   | 20.05   | 20.08   | 21.00   |

| LTE Band 2 Ant0 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 15.38                | 15.47   | 15.27   | 16.50   |
|                             |            | 1       | 2         | 15.27                | 15.40   | 15.43   | 16.50   |
|                             |            | 1       | 5         | 15.31                | 15.39   | 15.31   | 16.50   |
|                             |            | 3       | 0         | 15.25                | 15.45   | 15.38   | 16.50   |
|                             |            | 3       | 2         | 15.34                | 15.32   | 15.42   | 16.50   |
|                             |            | 3       | 3         | 15.34                | 15.44   | 15.43   | 16.50   |
|                             |            | 6       | 0         | 15.33                | 15.38   | 15.29   | 16.50   |
|                             | 16QAM      | 1       | 0         | 15.41                | 15.40   | 15.39   | 16.50   |
|                             |            | 1       | 2         | 15.34                | 15.41   | 15.41   | 16.50   |
|                             |            | 1       | 5         | 15.26                | 15.31   | 15.29   | 16.50   |
|                             |            | 3       | 0         | 15.32                | 15.31   | 15.38   | 16.50   |
|                             |            | 3       | 2         | 15.23                | 15.42   | 15.44   | 16.50   |



|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 3         | 15.36   | 15.35   | 15.32   | 16.50   |
|           |            | 6       | 0         | 15.38   | 15.38   | 15.27   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.34   | 15.36   | 15.31   | 16.50   |
|           |            | 1       | 2         | 15.23   | 15.31   | 15.29   | 16.50   |
|           |            | 1       | 5         | 15.38   | 15.44   | 15.35   | 16.50   |
|           |            | 3       | 0         | 15.28   | 15.31   | 15.39   | 16.50   |
|           |            | 3       | 2         | 15.32   | 15.43   | 15.40   | 16.50   |
|           |            | 3       | 3         | 15.30   | 15.32   | 15.35   | 16.50   |
|           |            | 6       | 0         | 15.39   | 15.46   | 15.44   | 16.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18615   | 18900   | 19185   |         |
| 3MHz      | QPSK       | 1       | 0         | 15.24   | 15.45   | 15.42   | 16.50   |
|           |            | 1       | 7         | 15.40   | 15.49   | 15.31   | 16.50   |
|           |            | 1       | 14        | 15.22   | 15.41   | 15.36   | 16.50   |
|           |            | 8       | 0         | 15.31   | 15.31   | 15.39   | 16.50   |
|           |            | 8       | 4         | 15.31   | 15.48   | 15.30   | 16.50   |
|           |            | 8       | 7         | 15.38   | 15.38   | 15.30   | 16.50   |
|           |            | 15      | 0         | 15.39   | 15.47   | 15.38   | 16.50   |
|           | 16QAM      | 1       | 0         | 15.22   | 15.42   | 15.39   | 16.50   |
|           |            | 1       | 7         | 15.21   | 15.41   | 15.39   | 16.50   |
|           |            | 1       | 14        | 15.26   | 15.44   | 15.46   | 16.50   |
|           |            | 8       | 0         | 15.29   | 15.31   | 15.29   | 16.50   |
|           |            | 8       | 4         | 15.31   | 15.32   | 15.44   | 16.50   |
|           |            | 8       | 7         | 15.23   | 15.39   | 15.29   | 16.50   |
|           |            | 15      | 0         | 15.31   | 15.34   | 15.35   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.37   | 15.41   | 15.33   | 16.50   |
|           |            | 1       | 7         | 15.22   | 15.35   | 15.27   | 16.50   |
|           |            | 1       | 14        | 15.31   | 15.36   | 15.39   | 16.50   |
|           |            | 8       | 0         | 15.41   | 15.32   | 15.43   | 16.50   |
|           |            | 8       | 4         | 15.37   | 15.39   | 15.36   | 16.50   |
|           |            | 8       | 7         | 15.36   | 15.44   | 15.33   | 16.50   |
|           |            | 15      | 0         | 15.22   | 15.39   | 15.38   | 16.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 15.29   | 15.35   | 15.37   | 16.50   |
|           |            | 1       | 13        | 15.36   | 15.49   | 15.28   | 16.50   |
|           |            | 1       | 24        | 15.38   | 15.38   | 15.30   | 16.50   |
|           |            | 12      | 0         | 15.26   | 15.45   | 15.42   | 16.50   |
|           |            | 12      | 6         | 15.37   | 15.46   | 15.35   | 16.50   |
|           |            | 12      | 13        | 15.25   | 15.41   | 15.28   | 16.50   |
|           |            | 25      | 0         | 15.39   | 15.35   | 15.31   | 16.50   |
|           | 16QAM      | 1       | 0         | 15.28   | 15.37   | 15.26   | 16.50   |
|           |            | 1       | 13        | 15.35   | 15.43   | 15.40   | 16.50   |
|           |            | 1       | 24        | 15.37   | 15.31   | 15.35   | 16.50   |
|           |            | 12      | 0         | 15.31   | 15.31   | 15.40   | 16.50   |
|           |            | 12      | 6         | 15.27   | 15.42   | 15.40   | 16.50   |
|           |            | 12      | 13        | 15.32   | 15.36   | 15.37   | 16.50   |
|           |            | 25      | 0         | 15.22   | 15.42   | 15.42   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.22   | 15.40   | 15.39   | 16.50   |

|           |            | 1       | 13        | 15.36   | 15.43   | 15.42   | 16.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 24        | 15.37   | 15.46   | 15.43   | 16.50   |
|           |            | 12      | 0         | 15.38   | 15.34   | 15.45   | 16.50   |
|           |            | 12      | 6         | 15.36   | 15.49   | 15.36   | 16.50   |
|           |            | 12      | 13        | 15.35   | 15.46   | 15.35   | 16.50   |
|           |            | 25      | 0         | 15.32   | 15.33   | 15.28   | 16.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 15.22   | 15.44   | 15.40   | 16.50   |
|           |            | 1       | 25        | 15.35   | 15.50   | 15.38   | 16.50   |
|           |            | 1       | 49        | 15.37   | 15.33   | 15.31   | 16.50   |
|           |            | 25      | 0         | 15.24   | 15.37   | 15.37   | 16.50   |
|           |            | 25      | 13        | 15.30   | 15.48   | 15.30   | 16.50   |
|           |            | 25      | 25        | 15.37   | 15.49   | 15.45   | 16.50   |
|           |            | 50      | 0         | 15.38   | 15.33   | 15.30   | 16.50   |
|           | 16QAM      | 1       | 0         | 15.33   | 15.33   | 15.31   | 16.50   |
|           |            | 1       | 25        | 15.24   | 15.40   | 15.35   | 16.50   |
|           |            | 1       | 49        | 15.38   | 15.34   | 15.37   | 16.50   |
|           |            | 25      | 0         | 15.31   | 15.43   | 15.37   | 16.50   |
|           |            | 25      | 13        | 15.25   | 15.39   | 15.38   | 16.50   |
|           |            | 25      | 25        | 15.26   | 15.34   | 15.44   | 16.50   |
|           |            | 50      | 0         | 15.27   | 15.44   | 15.44   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.23   | 15.30   | 15.42   | 16.50   |
|           |            | 1       | 25        | 15.27   | 15.36   | 15.29   | 16.50   |
|           |            | 1       | 49        | 15.41   | 15.33   | 15.40   | 16.50   |
|           |            | 25      | 0         | 15.36   | 15.33   | 15.30   | 16.50   |
|           |            | 25      | 13        | 15.36   | 15.40   | 15.36   | 16.50   |
|           |            | 25      | 25        | 15.32   | 15.47   | 15.42   | 16.50   |
|           |            | 50      | 0         | 15.28   | 15.45   | 15.28   | 16.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 15.36   | 15.46   | 15.31   | 16.50   |
|           |            | 1       | 38        | 15.35   | 15.47   | 15.38   | 16.50   |
|           |            | 1       | 74        | 15.34   | 15.44   | 15.44   | 16.50   |
|           |            | 36      | 0         | 15.29   | 15.46   | 15.33   | 16.50   |
|           |            | 36      | 18        | 15.31   | 15.37   | 15.29   | 16.50   |
|           |            | 36      | 39        | 15.32   | 15.40   | 15.41   | 16.50   |
|           |            | 75      | 0         | 15.24   | 15.44   | 15.37   | 16.50   |
|           | 16QAM      | 1       | 0         | 15.25   | 15.34   | 15.26   | 16.50   |
|           |            | 1       | 38        | 15.33   | 15.41   | 15.40   | 16.50   |
|           |            | 1       | 74        | 15.32   | 15.40   | 15.35   | 16.50   |
|           |            | 36      | 0         | 15.29   | 15.34   | 15.38   | 16.50   |
|           |            | 36      | 18        | 15.40   | 15.33   | 15.30   | 16.50   |
|           |            | 36      | 39        | 15.28   | 15.42   | 15.30   | 16.50   |
|           |            | 75      | 0         | 15.38   | 15.45   | 15.27   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.28   | 15.37   | 15.43   | 16.50   |
|           |            | 1       | 38        | 15.40   | 15.38   | 15.30   | 16.50   |
|           |            | 1       | 74        | 15.29   | 15.33   | 15.28   | 16.50   |
|           |            | 36      | 0         | 15.33   | 15.49   | 15.37   | 16.50   |
|           |            | 36      | 18        | 15.36   | 15.32   | 15.38   | 16.50   |
|           |            | 36      | 39        | 15.36   | 15.39   | 15.37   | 16.50   |

|           |            | 75      | 0         | 15.38   | 15.42   | 15.44   | 16.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 15.42   | 15.51   | 15.47   | 16.50   |
|           |            | 1       | 50        | 15.34   | 15.42   | 15.29   | 16.50   |
|           |            | 1       | 99        | 15.40   | 15.36   | 15.37   | 16.50   |
|           |            | 50      | 0         | 15.27   | 15.41   | 15.37   | 16.50   |
|           |            | 50      | 25        | 15.25   | 15.41   | 15.38   | 16.50   |
|           |            | 50      | 50        | 15.34   | 15.38   | 15.41   | 16.50   |
|           |            | 100     | 0         | 15.40   | 15.34   | 15.39   | 16.50   |
|           | 16QAM      | 1       | 0         | 15.34   | 15.31   | 15.36   | 16.50   |
|           |            | 1       | 50        | 15.36   | 15.37   | 15.27   | 16.50   |
|           |            | 1       | 99        | 15.37   | 15.37   | 15.46   | 16.50   |
|           |            | 50      | 0         | 15.26   | 15.40   | 15.31   | 16.50   |
|           |            | 50      | 25        | 15.36   | 15.47   | 15.39   | 16.50   |
|           |            | 50      | 50        | 15.41   | 15.37   | 15.35   | 16.50   |
|           |            | 100     | 0         | 15.38   | 15.43   | 15.41   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.21   | 15.35   | 15.40   | 16.50   |
|           |            | 1       | 50        | 15.26   | 15.45   | 15.30   | 16.50   |
|           |            | 1       | 99        | 15.27   | 15.37   | 15.29   | 16.50   |
|           |            | 50      | 0         | 15.31   | 15.33   | 15.42   | 16.50   |
|           |            | 50      | 25        | 15.27   | 15.46   | 15.38   | 16.50   |
|           |            | 50      | 50        | 15.24   | 15.33   | 15.35   | 16.50   |
|           |            | 100     | 0         | 15.33   | 15.39   | 15.42   | 16.50   |

| LTE Band 2 Ant0 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 14.84                | 15.07   | 14.91   | 16.00   |
|                            |            | 1       | 2         | 14.81                | 14.94   | 14.80   | 16.00   |
|                            |            | 1       | 5         | 14.83                | 15.01   | 14.88   | 16.00   |
|                            |            | 3       | 0         | 14.82                | 14.91   | 14.90   | 16.00   |
|                            |            | 3       | 2         | 14.87                | 14.94   | 14.94   | 16.00   |
|                            |            | 3       | 3         | 14.70                | 14.98   | 14.80   | 16.00   |
|                            |            | 6       | 0         | 14.71                | 15.05   | 14.82   | 16.00   |
|                            | 16QAM      | 1       | 0         | 14.74                | 14.90   | 14.82   | 16.00   |
|                            |            | 1       | 2         | 14.82                | 15.06   | 14.76   | 16.00   |
|                            |            | 1       | 5         | 14.80                | 15.00   | 14.79   | 16.00   |
|                            |            | 3       | 0         | 14.81                | 14.94   | 14.82   | 16.00   |
|                            |            | 3       | 2         | 14.82                | 14.96   | 14.83   | 16.00   |
|                            |            | 3       | 3         | 14.81                | 14.89   | 14.83   | 16.00   |
|                            |            | 6       | 0         | 14.88                | 14.90   | 14.89   | 16.00   |
|                            | 64QAM      | 1       | 0         | 14.71                | 14.94   | 14.80   | 16.00   |
|                            |            | 1       | 2         | 14.85                | 15.02   | 14.82   | 16.00   |
|                            |            | 1       | 5         | 14.74                | 15.01   | 14.83   | 16.00   |
|                            |            | 3       | 0         | 14.80                | 14.90   | 14.77   | 16.00   |
|                            |            | 3       | 2         | 14.78                | 15.00   | 14.89   | 16.00   |

|           |            | 3       | 3         | 14.71   | 14.97   | 14.84   | 16.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 6       | 0         | 14.87   | 15.03   | 14.86   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18615   | 18900   | 19185   |         |
| 3MHz      | QPSK       | 1       | 0         | 14.77   | 15.05   | 14.93   | 16.00   |
|           |            | 1       | 7         | 14.75   | 14.96   | 14.92   | 16.00   |
|           |            | 1       | 14        | 14.86   | 14.99   | 14.75   | 16.00   |
|           |            | 8       | 0         | 14.84   | 14.89   | 14.85   | 16.00   |
|           |            | 8       | 4         | 14.82   | 14.94   | 14.85   | 16.00   |
|           |            | 8       | 7         | 14.80   | 15.03   | 14.91   | 16.00   |
|           |            | 15      | 0         | 14.77   | 14.92   | 14.74   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.75   | 14.91   | 14.91   | 16.00   |
|           |            | 1       | 7         | 14.83   | 14.89   | 14.76   | 16.00   |
|           |            | 1       | 14        | 14.69   | 15.02   | 14.75   | 16.00   |
|           |            | 8       | 0         | 14.73   | 15.00   | 14.85   | 16.00   |
|           |            | 8       | 4         | 14.81   | 15.04   | 14.92   | 16.00   |
|           |            | 8       | 7         | 14.74   | 15.03   | 14.91   | 16.00   |
|           |            | 15      | 0         | 14.68   | 14.98   | 14.85   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.88   | 14.96   | 14.88   | 16.00   |
|           |            | 1       | 7         | 14.86   | 14.99   | 14.89   | 16.00   |
|           |            | 1       | 14        | 14.82   | 14.88   | 14.79   | 16.00   |
|           |            | 8       | 0         | 14.78   | 14.91   | 14.86   | 16.00   |
|           |            | 8       | 4         | 14.76   | 14.88   | 14.79   | 16.00   |
|           |            | 8       | 7         | 14.70   | 14.88   | 14.79   | 16.00   |
|           |            | 15      | 0         | 14.85   | 15.01   | 14.85   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 14.70   | 15.06   | 14.89   | 16.00   |
|           |            | 1       | 13        | 14.74   | 14.94   | 14.87   | 16.00   |
|           |            | 1       | 24        | 14.72   | 14.90   | 14.78   | 16.00   |
|           |            | 12      | 0         | 14.81   | 14.89   | 14.83   | 16.00   |
|           |            | 12      | 6         | 14.76   | 14.90   | 14.86   | 16.00   |
|           |            | 12      | 13        | 14.76   | 14.87   | 14.78   | 16.00   |
|           |            | 25      | 0         | 14.69   | 14.97   | 14.85   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.81   | 14.94   | 14.85   | 16.00   |
|           |            | 1       | 13        | 14.87   | 15.01   | 14.92   | 16.00   |
|           |            | 1       | 24        | 14.82   | 14.94   | 14.90   | 16.00   |
|           |            | 12      | 0         | 14.85   | 15.02   | 14.93   | 16.00   |
|           |            | 12      | 6         | 14.71   | 14.87   | 14.77   | 16.00   |
|           |            | 12      | 13        | 14.80   | 14.95   | 14.93   | 16.00   |
|           |            | 25      | 0         | 14.73   | 14.97   | 14.92   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.75   | 14.93   | 14.75   | 16.00   |
|           |            | 1       | 13        | 14.79   | 15.05   | 14.88   | 16.00   |
|           |            | 1       | 24        | 14.79   | 14.99   | 14.89   | 16.00   |
|           |            | 12      | 0         | 14.88   | 14.90   | 14.86   | 16.00   |
|           |            | 12      | 6         | 14.85   | 14.95   | 14.85   | 16.00   |
|           |            | 12      | 13        | 14.83   | 14.95   | 14.93   | 16.00   |
|           |            | 25      | 0         | 14.80   | 15.07   | 14.83   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |

|           |            |         |           | 18650   | 18900   | 19150   |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| 10MHz     | QPSK       | 1       | 0         | 14.85   | 15.03   | 14.94   | 16.00   |
|           |            | 1       | 25        | 14.68   | 14.94   | 14.85   | 16.00   |
|           |            | 1       | 49        | 14.75   | 14.99   | 14.92   | 16.00   |
|           |            | 25      | 0         | 14.82   | 14.91   | 14.76   | 16.00   |
|           |            | 25      | 13        | 14.86   | 15.01   | 14.89   | 16.00   |
|           |            | 25      | 25        | 14.81   | 14.90   | 14.79   | 16.00   |
|           |            | 50      | 0         | 14.69   | 14.89   | 14.80   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.78   | 14.93   | 14.81   | 16.00   |
|           |            | 1       | 25        | 14.72   | 14.94   | 14.91   | 16.00   |
|           |            | 1       | 49        | 14.85   | 14.88   | 14.93   | 16.00   |
|           |            | 25      | 0         | 14.78   | 15.01   | 14.87   | 16.00   |
|           |            | 25      | 13        | 14.73   | 14.96   | 14.93   | 16.00   |
|           |            | 25      | 25        | 14.70   | 14.98   | 14.88   | 16.00   |
|           |            | 50      | 0         | 14.71   | 14.91   | 14.79   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.85   | 15.05   | 14.91   | 16.00   |
|           |            | 1       | 25        | 14.86   | 14.88   | 14.87   | 16.00   |
|           |            | 1       | 49        | 14.82   | 14.90   | 14.89   | 16.00   |
|           |            | 25      | 0         | 14.86   | 14.88   | 14.87   | 16.00   |
|           |            | 25      | 13        | 14.71   | 15.05   | 14.77   | 16.00   |
|           |            | 25      | 25        | 14.72   | 14.97   | 14.79   | 16.00   |
|           |            | 50      | 0         | 14.87   | 14.89   | 14.91   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 14.84   | 15.07   | 14.80   | 16.00   |
|           |            | 1       | 38        | 14.80   | 14.89   | 14.78   | 16.00   |
|           |            | 1       | 74        | 14.68   | 14.91   | 14.81   | 16.00   |
|           |            | 36      | 0         | 14.83   | 15.02   | 14.77   | 16.00   |
|           |            | 36      | 18        | 14.87   | 15.02   | 14.94   | 16.00   |
|           |            | 36      | 39        | 14.72   | 15.03   | 14.81   | 16.00   |
|           |            | 75      | 0         | 14.83   | 14.89   | 14.88   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.83   | 14.93   | 14.89   | 16.00   |
|           |            | 1       | 38        | 14.77   | 14.89   | 14.93   | 16.00   |
|           |            | 1       | 74        | 14.72   | 14.98   | 14.90   | 16.00   |
|           |            | 36      | 0         | 14.87   | 14.90   | 14.75   | 16.00   |
|           |            | 36      | 18        | 14.69   | 15.02   | 14.93   | 16.00   |
|           |            | 36      | 39        | 14.79   | 14.92   | 14.80   | 16.00   |
|           |            | 75      | 0         | 14.73   | 15.00   | 14.75   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.82   | 14.88   | 14.79   | 16.00   |
|           |            | 1       | 38        | 14.83   | 14.99   | 14.81   | 16.00   |
|           |            | 1       | 74        | 14.84   | 14.97   | 14.77   | 16.00   |
|           |            | 36      | 0         | 14.69   | 14.94   | 14.86   | 16.00   |
|           |            | 36      | 18        | 14.76   | 15.05   | 14.93   | 16.00   |
|           |            | 36      | 39        | 14.70   | 15.03   | 14.83   | 16.00   |
|           |            | 75      | 0         | 14.80   | 14.90   | 14.82   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 14.89   | 15.08   | 14.95   | 16.00   |
|           |            | 1       | 50        | 14.75   | 14.89   | 14.91   | 16.00   |
|           |            | 1       | 99        | 14.87   | 15.05   | 14.88   | 16.00   |
|           |            | 50      | 0         | 14.83   | 15.03   | 14.94   | 16.00   |

|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  |       | 50  | 25 | 14.79 | 14.89 | 14.76 | 16.00 |
|  |       | 50  | 50 | 14.82 | 14.99 | 14.94 | 16.00 |
|  |       | 100 | 0  | 14.88 | 15.04 | 14.82 | 16.00 |
|  | 16QAM | 1   | 0  | 14.71 | 15.06 | 14.77 | 16.00 |
|  |       | 1   | 50 | 14.79 | 15.03 | 14.88 | 16.00 |
|  |       | 1   | 99 | 14.87 | 15.06 | 14.76 | 16.00 |
|  |       | 50  | 0  | 14.83 | 15.01 | 14.76 | 16.00 |
|  |       | 50  | 25 | 14.69 | 14.92 | 14.76 | 16.00 |
|  |       | 50  | 50 | 14.88 | 14.90 | 14.92 | 16.00 |
|  |       | 100 | 0  | 14.78 | 14.92 | 14.92 | 16.00 |
|  | 64QAM | 1   | 0  | 14.78 | 15.01 | 14.80 | 16.00 |
|  |       | 1   | 50 | 14.82 | 15.06 | 14.85 | 16.00 |
|  |       | 1   | 99 | 14.85 | 14.94 | 14.84 | 16.00 |
|  |       | 50  | 0  | 14.88 | 14.95 | 14.85 | 16.00 |
|  |       | 50  | 25 | 14.80 | 14.96 | 14.91 | 16.00 |
|  |       | 50  | 50 | 14.83 | 15.07 | 14.78 | 16.00 |
|  |       | 100 | 0  | 14.86 | 15.01 | 14.83 | 16.00 |

| LTE Band 2 Ant0 Sensor on |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                 | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                           |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                    | QPSK       | 1       | 0         | 16.35                | 16.67   | 16.43   | 17.50   |
|                           |            | 1       | 2         | 16.36                | 16.27   | 16.42   | 17.50   |
|                           |            | 1       | 5         | 16.48                | 16.42   | 16.41   | 17.50   |
|                           |            | 3       | 0         | 16.39                | 16.50   | 16.51   | 17.50   |
|                           |            | 3       | 2         | 16.19                | 16.30   | 16.12   | 17.50   |
|                           |            | 3       | 3         | 16.28                | 16.28   | 16.38   | 17.50   |
|                           |            | 6       | 0         | 16.20                | 16.48   | 16.42   | 17.50   |
|                           | 16QAM      | 1       | 0         | 16.22                | 16.48   | 16.30   | 17.50   |
|                           |            | 1       | 2         | 16.44                | 16.54   | 16.36   | 17.50   |
|                           |            | 1       | 5         | 16.33                | 16.39   | 16.18   | 17.50   |
|                           |            | 3       | 0         | 16.33                | 16.42   | 16.33   | 17.50   |
|                           |            | 3       | 2         | 16.32                | 16.35   | 16.18   | 17.50   |
|                           |            | 3       | 3         | 16.43                | 16.46   | 16.53   | 17.50   |
|                           |            | 6       | 0         | 16.32                | 16.37   | 16.46   | 17.50   |
|                           | 64QAM      | 1       | 0         | 16.28                | 16.31   | 16.39   | 17.50   |
|                           |            | 1       | 2         | 16.38                | 16.56   | 16.31   | 17.50   |
|                           |            | 1       | 5         | 16.35                | 16.41   | 16.32   | 17.50   |
|                           |            | 3       | 0         | 16.41                | 16.46   | 16.42   | 17.50   |
|                           |            | 3       | 2         | 16.14                | 16.42   | 16.43   | 17.50   |
|                           |            | 3       | 3         | 16.47                | 16.38   | 16.32   | 17.50   |
|                           |            | 6       | 0         | 16.32                | 16.40   | 16.20   | 17.50   |
| Bandwidth                 | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                           |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                      | QPSK       | 1       | 0         | 16.32                | 16.64   | 16.61   | 17.50   |
|                           |            | 1       | 7         | 16.29                | 16.22   | 16.52   | 17.50   |
|                           |            | 1       | 14        | 16.52                | 16.45   | 16.42   | 17.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 0         | 16.27   | 16.36   | 16.50   | 17.50   |
|           |            | 8       | 4         | 16.15   | 16.30   | 16.23   | 17.50   |
|           |            | 8       | 7         | 16.29   | 16.29   | 16.46   | 17.50   |
|           |            | 15      | 0         | 16.28   | 16.43   | 16.29   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.26   | 16.53   | 16.29   | 17.50   |
|           |            | 1       | 7         | 16.44   | 16.61   | 16.39   | 17.50   |
|           |            | 1       | 14        | 16.45   | 16.43   | 16.36   | 17.50   |
|           |            | 8       | 0         | 16.27   | 16.43   | 16.31   | 17.50   |
|           |            | 8       | 4         | 16.32   | 16.47   | 16.20   | 17.50   |
|           |            | 8       | 7         | 16.38   | 16.33   | 16.47   | 17.50   |
|           |            | 15      | 0         | 16.33   | 16.26   | 16.38   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.15   | 16.40   | 16.38   | 17.50   |
|           |            | 1       | 7         | 16.44   | 16.53   | 16.33   | 17.50   |
|           |            | 1       | 14        | 16.35   | 16.38   | 16.18   | 17.50   |
|           |            | 8       | 0         | 16.49   | 16.52   | 16.47   | 17.50   |
|           |            | 8       | 4         | 16.30   | 16.48   | 16.50   | 17.50   |
|           |            | 8       | 7         | 16.41   | 16.49   | 16.23   | 17.50   |
|           |            | 15      | 0         | 16.39   | 16.46   | 16.23   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 16.44   | 16.63   | 16.61   | 17.50   |
|           |            | 1       | 13        | 16.27   | 16.24   | 16.46   | 17.50   |
|           |            | 1       | 24        | 16.40   | 16.41   | 16.38   | 17.50   |
|           |            | 12      | 0         | 16.39   | 16.36   | 16.48   | 17.50   |
|           |            | 12      | 6         | 16.21   | 16.38   | 16.15   | 17.50   |
|           |            | 12      | 13        | 16.27   | 16.42   | 16.36   | 17.50   |
|           |            | 25      | 0         | 16.22   | 16.30   | 16.29   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.32   | 16.61   | 16.29   | 17.50   |
|           |            | 1       | 13        | 16.29   | 16.62   | 16.28   | 17.50   |
|           |            | 1       | 24        | 16.39   | 16.50   | 16.19   | 17.50   |
|           |            | 12      | 0         | 16.35   | 16.50   | 16.34   | 17.50   |
|           |            | 12      | 6         | 16.19   | 16.39   | 16.14   | 17.50   |
|           |            | 12      | 13        | 16.40   | 16.46   | 16.48   | 17.50   |
|           |            | 25      | 0         | 16.27   | 16.40   | 16.49   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.26   | 16.30   | 16.43   | 17.50   |
|           |            | 1       | 13        | 16.37   | 16.62   | 16.32   | 17.50   |
|           |            | 1       | 24        | 16.37   | 16.49   | 16.20   | 17.50   |
|           |            | 12      | 0         | 16.51   | 16.47   | 16.38   | 17.50   |
|           |            | 12      | 6         | 16.14   | 16.49   | 16.37   | 17.50   |
|           |            | 12      | 13        | 16.38   | 16.41   | 16.37   | 17.50   |
|           |            | 25      | 0         | 16.37   | 16.36   | 16.22   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 16.36   | 16.63   | 16.43   | 17.50   |
|           |            | 1       | 25        | 16.34   | 16.31   | 16.51   | 17.50   |
|           |            | 1       | 49        | 16.42   | 16.37   | 16.39   | 17.50   |
|           |            | 25      | 0         | 16.42   | 16.34   | 16.43   | 17.50   |
|           |            | 25      | 13        | 16.19   | 16.24   | 16.27   | 17.50   |
|           |            | 25      | 25        | 16.29   | 16.31   | 16.48   | 17.50   |
|           |            | 50      | 0         | 16.33   | 16.42   | 16.25   | 17.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 16QAM      | 1       | 0         | 16.29   | 16.52   | 16.26   | 17.50   |
|           |            | 1       | 25        | 16.28   | 16.55   | 16.29   | 17.50   |
|           |            | 1       | 49        | 16.29   | 16.39   | 16.22   | 17.50   |
|           |            | 25      | 0         | 16.17   | 16.49   | 16.29   | 17.50   |
|           |            | 25      | 13        | 16.22   | 16.38   | 16.20   | 17.50   |
|           |            | 25      | 25        | 16.41   | 16.41   | 16.58   | 17.50   |
|           |            | 50      | 0         | 16.26   | 16.40   | 16.41   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.25   | 16.28   | 16.34   | 17.50   |
|           |            | 1       | 25        | 16.30   | 16.43   | 16.40   | 17.50   |
|           |            | 1       | 49        | 16.50   | 16.53   | 16.16   | 17.50   |
|           |            | 25      | 0         | 16.50   | 16.61   | 16.46   | 17.50   |
|           |            | 25      | 13        | 16.18   | 16.52   | 16.56   | 17.50   |
|           |            | 25      | 25        | 16.43   | 16.42   | 16.33   | 17.50   |
|           |            | 50      | 0         | 16.38   | 16.49   | 16.26   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.36   | 16.57   | 16.60   | 17.50   |
|           |            | 1       | 38        | 16.35   | 16.34   | 16.49   | 17.50   |
|           |            | 1       | 74        | 16.45   | 16.40   | 16.47   | 17.50   |
|           |            | 36      | 0         | 16.46   | 16.50   | 16.40   | 17.50   |
|           |            | 36      | 18        | 16.28   | 16.33   | 16.15   | 17.50   |
|           |            | 36      | 39        | 16.37   | 16.35   | 16.37   | 17.50   |
|           |            | 75      | 0         | 16.32   | 16.44   | 16.29   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.20   | 16.45   | 16.44   | 17.50   |
|           |            | 1       | 38        | 16.30   | 16.57   | 16.41   | 17.50   |
|           |            | 1       | 74        | 16.40   | 16.41   | 16.26   | 17.50   |
|           |            | 36      | 0         | 16.21   | 16.40   | 16.43   | 17.50   |
|           |            | 36      | 18        | 16.22   | 16.33   | 16.20   | 17.50   |
|           |            | 36      | 39        | 16.27   | 16.38   | 16.55   | 17.50   |
|           |            | 75      | 0         | 16.20   | 16.39   | 16.46   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.24   | 16.28   | 16.31   | 17.50   |
|           |            | 1       | 38        | 16.36   | 16.55   | 16.23   | 17.50   |
|           |            | 1       | 74        | 16.48   | 16.50   | 16.30   | 17.50   |
|           |            | 36      | 0         | 16.42   | 16.52   | 16.39   | 17.50   |
|           |            | 36      | 18        | 16.19   | 16.48   | 16.52   | 17.50   |
|           |            | 36      | 39        | 16.30   | 16.42   | 16.32   | 17.50   |
|           |            | 75      | 0         | 16.35   | 16.44   | 16.37   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 16.50   | 16.66   | 16.61   | 17.50   |
|           |            | 1       | 50        | 16.40   | 16.40   | 16.56   | 17.50   |
|           |            | 1       | 99        | 16.52   | 16.47   | 16.48   | 17.50   |
|           |            | 50      | 0         | 16.46   | 16.52   | 16.51   | 17.50   |
|           |            | 50      | 25        | 16.32   | 16.41   | 16.31   | 17.50   |
|           |            | 50      | 50        | 16.45   | 16.46   | 16.49   | 17.50   |
|           |            | 100     | 0         | 16.38   | 16.47   | 16.42   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.32   | 16.62   | 16.44   | 17.50   |
|           |            | 1       | 50        | 16.46   | 16.65   | 16.45   | 17.50   |
|           |            | 1       | 99        | 16.48   | 16.51   | 16.37   | 17.50   |
|           |            | 50      | 0         | 16.34   | 16.57   | 16.43   | 17.50   |
|           |            | 50      | 25        | 16.32   | 16.51   | 16.32   | 17.50   |



|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  |       | 50  | 50 | 16.44 | 16.46 | 16.62 | 17.50 |
|  |       | 100 | 0  | 16.35 | 16.43 | 16.56 | 17.50 |
|  | 64QAM | 1   | 0  | 16.28 | 16.46 | 16.46 | 17.50 |
|  |       | 1   | 50 | 16.43 | 16.62 | 16.42 | 17.50 |
|  |       | 1   | 99 | 16.51 | 16.55 | 16.34 | 17.50 |
|  |       | 50  | 0  | 16.50 | 16.62 | 16.53 | 17.50 |
|  |       | 50  | 25 | 16.32 | 16.57 | 16.56 | 17.50 |
|  |       | 50  | 50 | 16.47 | 16.49 | 16.41 | 17.50 |
|  |       | 100 | 0  | 16.49 | 16.48 | 16.36 | 17.50 |

| LTE Band 2 Ant4 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 23.06                | 23.25   | 23.10   | 24.00   |
|                            |            | 1       | 2         | 23.04                | 23.05   | 22.99   | 24.00   |
|                            |            | 1       | 5         | 22.88                | 23.12   | 22.95   | 24.00   |
|                            |            | 3       | 0         | 22.63                | 22.93   | 22.88   | 24.00   |
|                            |            | 3       | 2         | 22.63                | 22.80   | 22.58   | 24.00   |
|                            |            | 3       | 3         | 22.46                | 22.59   | 22.71   | 24.00   |
|                            |            | 6       | 0         | 22.24                | 22.30   | 22.12   | 23.00   |
|                            | 16QAM      | 1       | 0         | 21.89                | 22.03   | 21.93   | 23.00   |
|                            |            | 1       | 2         | 22.00                | 22.02   | 21.95   | 23.00   |
|                            |            | 1       | 5         | 21.78                | 22.00   | 21.91   | 23.00   |
|                            |            | 3       | 0         | 21.44                | 21.79   | 21.75   | 23.00   |
|                            |            | 3       | 2         | 21.44                | 21.60   | 21.45   | 23.00   |
|                            |            | 3       | 3         | 21.44                | 21.58   | 21.60   | 23.00   |
|                            |            | 6       | 0         | 21.05                | 21.22   | 21.01   | 22.00   |
|                            | 64QAM      | 1       | 0         | 20.77                | 21.01   | 20.74   | 22.00   |
|                            |            | 1       | 2         | 20.97                | 20.96   | 20.84   | 22.00   |
|                            |            | 1       | 5         | 20.65                | 20.73   | 20.81   | 22.00   |
|                            |            | 3       | 0         | 20.23                | 20.73   | 20.62   | 22.00   |
|                            |            | 3       | 2         | 20.28                | 20.43   | 20.32   | 22.00   |
|                            |            | 3       | 3         | 20.37                | 20.45   | 20.43   | 22.00   |
|                            |            | 6       | 0         | 20.07                | 20.04   | 20.01   | 21.00   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                       | QPSK       | 1       | 0         | 23.05                | 23.21   | 23.11   | 24.00   |
|                            |            | 1       | 7         | 22.98                | 23.11   | 22.96   | 24.00   |
|                            |            | 1       | 14        | 22.94                | 23.09   | 22.95   | 24.00   |
|                            |            | 8       | 0         | 22.07                | 22.34   | 22.37   | 23.00   |
|                            |            | 8       | 4         | 22.15                | 22.26   | 22.04   | 23.00   |
|                            |            | 8       | 7         | 21.95                | 22.05   | 22.18   | 23.00   |
|                            |            | 15      | 0         | 22.17                | 22.31   | 22.13   | 23.00   |
|                            | 16QAM      | 1       | 0         | 21.94                | 22.07   | 21.93   | 23.00   |
|                            |            | 1       | 7         | 21.97                | 22.06   | 21.96   | 23.00   |
|                            |            | 1       | 14        | 21.73                | 21.96   | 21.92   | 23.00   |
|                            |            | 8       | 0         | 20.93                | 21.35   | 21.24   | 22.00   |

|           |            | 8       | 4         | 20.88   | 21.19   | 20.99   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 20.95   | 21.09   | 21.16   | 22.00   |
|           |            | 15      | 0         | 21.08   | 21.21   | 21.03   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.69   | 21.05   | 20.73   | 22.00   |
|           |            | 1       | 7         | 20.91   | 21.01   | 20.82   | 22.00   |
|           |            | 1       | 14        | 20.61   | 20.77   | 20.83   | 22.00   |
|           |            | 8       | 0         | 19.72   | 20.20   | 20.06   | 21.00   |
|           |            | 8       | 4         | 19.75   | 20.01   | 19.80   | 21.00   |
|           |            | 8       | 7         | 19.87   | 19.99   | 19.95   | 21.00   |
|           |            | 15      | 0         | 20.08   | 20.08   | 20.00   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.01   | 23.26   | 23.12   | 24.00   |
|           |            | 1       | 13        | 22.98   | 23.14   | 22.99   | 24.00   |
|           |            | 1       | 24        | 22.86   | 23.05   | 22.98   | 24.00   |
|           |            | 12      | 0         | 22.08   | 22.40   | 22.38   | 23.00   |
|           |            | 12      | 6         | 22.14   | 22.24   | 22.07   | 23.00   |
|           |            | 12      | 13        | 22.01   | 22.07   | 22.14   | 23.00   |
|           |            | 25      | 0         | 22.16   | 22.34   | 22.17   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.84   | 22.09   | 21.95   | 23.00   |
|           |            | 1       | 13        | 21.99   | 22.06   | 21.88   | 23.00   |
|           |            | 1       | 24        | 21.80   | 22.01   | 21.89   | 23.00   |
|           |            | 12      | 0         | 20.96   | 21.33   | 21.29   | 22.00   |
|           |            | 12      | 6         | 20.94   | 21.17   | 20.95   | 22.00   |
|           |            | 12      | 13        | 20.99   | 21.12   | 21.14   | 22.00   |
|           |            | 25      | 0         | 21.04   | 21.24   | 20.96   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.72   | 21.00   | 20.77   | 22.00   |
|           |            | 1       | 13        | 20.90   | 20.96   | 20.84   | 22.00   |
|           |            | 1       | 24        | 20.67   | 20.81   | 20.82   | 22.00   |
|           |            | 12      | 0         | 19.71   | 20.23   | 20.10   | 21.00   |
|           |            | 12      | 6         | 19.80   | 19.98   | 19.86   | 21.00   |
|           |            | 12      | 13        | 19.92   | 19.95   | 19.96   | 21.00   |
|           |            | 25      | 0         | 20.06   | 20.04   | 20.00   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.02   | 23.19   | 23.15   | 24.00   |
|           |            | 1       | 25        | 23.00   | 23.05   | 22.98   | 24.00   |
|           |            | 1       | 49        | 22.94   | 23.12   | 23.00   | 24.00   |
|           |            | 25      | 0         | 22.14   | 22.42   | 22.32   | 23.00   |
|           |            | 25      | 13        | 22.07   | 22.33   | 22.03   | 23.00   |
|           |            | 25      | 25        | 22.03   | 22.07   | 22.12   | 23.00   |
|           |            | 50      | 0         | 22.25   | 22.33   | 22.15   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.90   | 22.13   | 21.93   | 23.00   |
|           |            | 1       | 25        | 22.01   | 22.11   | 21.96   | 23.00   |
|           |            | 1       | 49        | 21.80   | 21.92   | 21.85   | 23.00   |
|           |            | 25      | 0         | 20.96   | 21.32   | 21.23   | 22.00   |
|           |            | 25      | 13        | 20.98   | 21.18   | 20.95   | 22.00   |
|           |            | 25      | 25        | 20.95   | 21.04   | 21.07   | 22.00   |
|           |            | 50      | 0         | 21.13   | 21.20   | 20.97   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.68   | 21.09   | 20.78   | 22.00   |

|           |            | 1       | 25        | 20.89   | 20.96   | 20.78   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 49        | 20.66   | 20.79   | 20.79   | 22.00   |
|           |            | 25      | 0         | 19.79   | 20.25   | 20.13   | 21.00   |
|           |            | 25      | 13        | 19.82   | 20.00   | 19.88   | 21.00   |
|           |            | 25      | 25        | 19.91   | 19.95   | 19.91   | 21.00   |
|           |            | 50      | 0         | 20.06   | 20.00   | 19.93   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.01   | 23.27   | 23.10   | 24.00   |
|           |            | 1       | 38        | 23.02   | 23.08   | 22.94   | 24.00   |
|           |            | 1       | 74        | 22.84   | 23.10   | 22.96   | 24.00   |
|           |            | 36      | 0         | 22.07   | 22.38   | 22.33   | 23.00   |
|           |            | 36      | 18        | 22.12   | 22.32   | 22.06   | 23.00   |
|           |            | 36      | 39        | 22.03   | 22.05   | 22.16   | 23.00   |
|           |            | 75      | 0         | 22.17   | 22.25   | 22.14   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.91   | 22.11   | 21.91   | 23.00   |
|           |            | 1       | 38        | 21.98   | 22.07   | 21.86   | 23.00   |
|           |            | 1       | 74        | 21.78   | 21.93   | 21.86   | 23.00   |
|           |            | 36      | 0         | 20.91   | 21.34   | 21.23   | 22.00   |
|           |            | 36      | 18        | 20.93   | 21.16   | 20.92   | 22.00   |
|           |            | 36      | 39        | 20.92   | 21.04   | 21.12   | 22.00   |
|           |            | 75      | 0         | 21.06   | 21.27   | 21.02   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.75   | 21.00   | 20.75   | 22.00   |
|           |            | 1       | 38        | 20.94   | 20.95   | 20.78   | 22.00   |
|           |            | 1       | 74        | 20.64   | 20.77   | 20.80   | 22.00   |
|           |            | 36      | 0         | 19.74   | 20.22   | 20.12   | 21.00   |
|           |            | 36      | 18        | 19.85   | 20.00   | 19.87   | 21.00   |
|           |            | 36      | 39        | 19.92   | 19.97   | 19.89   | 21.00   |
|           |            | 75      | 0         | 20.07   | 20.04   | 19.99   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 23.12   | 23.29   | 23.20   | 24.00   |
|           |            | 1       | 50        | 23.07   | 23.15   | 23.02   | 24.00   |
|           |            | 1       | 99        | 22.95   | 23.14   | 23.03   | 24.00   |
|           |            | 50      | 0         | 22.18   | 22.44   | 22.40   | 23.00   |
|           |            | 50      | 25        | 22.16   | 22.35   | 22.09   | 23.00   |
|           |            | 50      | 50        | 22.06   | 22.15   | 22.22   | 23.00   |
|           |            | 100     | 0         | 22.27   | 22.36   | 22.21   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.95   | 22.14   | 22.02   | 23.00   |
|           |            | 1       | 50        | 22.04   | 22.13   | 21.97   | 23.00   |
|           |            | 1       | 99        | 21.82   | 22.02   | 21.94   | 23.00   |
|           |            | 50      | 0         | 21.02   | 21.37   | 21.34   | 22.00   |
|           |            | 50      | 25        | 20.99   | 21.20   | 21.01   | 22.00   |
|           |            | 50      | 50        | 21.03   | 21.13   | 21.17   | 22.00   |
|           |            | 100     | 0         | 21.15   | 21.30   | 21.06   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.78   | 21.11   | 20.84   | 22.00   |
|           |            | 1       | 50        | 20.99   | 21.03   | 20.87   | 22.00   |
|           |            | 1       | 99        | 20.70   | 20.83   | 20.85   | 22.00   |
|           |            | 50      | 0         | 19.82   | 20.29   | 20.16   | 21.00   |
|           |            | 50      | 25        | 19.86   | 20.02   | 19.90   | 21.00   |
|           |            | 50      | 50        | 19.93   | 20.02   | 19.98   | 21.00   |

|  |  |     |   |       |       |       |       |
|--|--|-----|---|-------|-------|-------|-------|
|  |  | 100 | 0 | 20.11 | 20.11 | 20.04 | 21.00 |
|--|--|-----|---|-------|-------|-------|-------|

| LTE Band 4 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 23.00                | 22.79   | 22.61   | 24.00   |
|                            |            | 1       | 2         | 22.96                | 22.86   | 22.68   | 24.00   |
|                            |            | 1       | 5         | 22.84                | 22.76   | 22.59   | 24.00   |
|                            |            | 3       | 0         | 22.91                | 22.83   | 22.53   | 24.00   |
|                            |            | 3       | 2         | 22.96                | 22.82   | 22.65   | 24.00   |
|                            |            | 3       | 3         | 22.89                | 22.79   | 22.55   | 24.00   |
|                            |            | 6       | 0         | 21.91                | 21.85   | 21.65   | 23.00   |
|                            | 16QAM      | 1       | 0         | 21.97                | 22.04   | 21.68   | 23.00   |
|                            |            | 1       | 2         | 22.02                | 22.13   | 21.86   | 23.00   |
|                            |            | 1       | 5         | 21.89                | 22.05   | 21.62   | 23.00   |
|                            |            | 3       | 0         | 22.14                | 21.94   | 21.78   | 23.00   |
|                            |            | 3       | 2         | 22.26                | 21.96   | 21.83   | 23.00   |
|                            |            | 3       | 3         | 22.15                | 21.87   | 21.69   | 23.00   |
|                            |            | 6       | 0         | 21.04                | 20.94   | 20.68   | 22.00   |
|                            | 64QAM      | 1       | 0         | 21.23                | 20.87   | 20.62   | 22.00   |
|                            |            | 1       | 2         | 21.14                | 20.89   | 20.50   | 22.00   |
|                            |            | 1       | 5         | 20.79                | 21.04   | 20.67   | 22.00   |
|                            |            | 3       | 0         | 21.15                | 20.79   | 20.78   | 22.00   |
|                            |            | 3       | 2         | 21.12                | 20.72   | 20.69   | 22.00   |
|                            |            | 3       | 3         | 21.06                | 20.92   | 20.66   | 22.00   |
|                            |            | 6       | 0         | 19.97                | 20.13   | 20.07   | 21.00   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz                       | QPSK       | 1       | 0         | 23.00                | 22.91   | 22.68   | 24.00   |
|                            |            | 1       | 7         | 22.90                | 22.83   | 22.71   | 24.00   |
|                            |            | 1       | 14        | 22.97                | 22.88   | 22.64   | 24.00   |
|                            |            | 8       | 0         | 22.04                | 21.93   | 21.77   | 23.00   |
|                            |            | 8       | 4         | 22.09                | 21.99   | 21.79   | 23.00   |
|                            |            | 8       | 7         | 22.05                | 21.93   | 21.77   | 23.00   |
|                            |            | 15      | 0         | 22.06                | 21.95   | 21.73   | 23.00   |
|                            | 16QAM      | 1       | 0         | 22.64                | 22.02   | 21.77   | 23.00   |
|                            |            | 1       | 7         | 22.55                | 22.00   | 21.88   | 23.00   |
|                            |            | 1       | 14        | 22.58                | 21.94   | 21.63   | 23.00   |
|                            |            | 8       | 0         | 21.21                | 20.97   | 20.79   | 22.00   |
|                            |            | 8       | 4         | 21.26                | 20.99   | 20.87   | 22.00   |
|                            |            | 8       | 7         | 21.20                | 20.97   | 20.83   | 22.00   |
|                            |            | 15      | 0         | 21.15                | 20.87   | 20.70   | 22.00   |
|                            | 64QAM      | 1       | 0         | 20.87                | 20.83   | 20.64   | 22.00   |
|                            |            | 1       | 7         | 20.85                | 20.79   | 20.63   | 22.00   |
|                            |            | 1       | 14        | 20.94                | 20.86   | 20.55   | 22.00   |
|                            |            | 8       | 0         | 19.88                | 19.77   | 19.65   | 21.00   |
|                            |            | 8       | 4         | 19.98                | 19.80   | 19.53   | 21.00   |

|           |            | 8       | 7         | 19.87   | 19.82   | 19.59   | 21.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 15      | 0         | 19.89   | 19.82   | 19.50   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.94   | 22.97   | 22.76   | 24.00   |
|           |            | 1       | 13        | 22.91   | 22.96   | 22.81   | 24.00   |
|           |            | 1       | 24        | 22.94   | 22.91   | 22.71   | 24.00   |
|           |            | 12      | 0         | 22.08   | 21.96   | 21.80   | 23.00   |
|           |            | 12      | 6         | 22.07   | 22.00   | 21.78   | 23.00   |
|           |            | 12      | 13        | 22.02   | 21.96   | 21.72   | 23.00   |
|           |            | 25      | 0         | 22.08   | 21.94   | 21.74   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.98   | 22.23   | 21.93   | 23.00   |
|           |            | 1       | 13        | 22.01   | 22.21   | 21.97   | 23.00   |
|           |            | 1       | 24        | 21.98   | 22.16   | 21.84   | 23.00   |
|           |            | 12      | 0         | 21.06   | 21.03   | 20.77   | 22.00   |
|           |            | 12      | 6         | 21.04   | 21.01   | 20.78   | 22.00   |
|           |            | 12      | 13        | 21.03   | 20.99   | 20.70   | 22.00   |
|           |            | 25      | 0         | 21.10   | 20.94   | 20.81   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.98   | 20.96   | 20.64   | 22.00   |
|           |            | 1       | 13        | 20.90   | 20.95   | 20.72   | 22.00   |
|           |            | 1       | 24        | 20.90   | 20.79   | 20.72   | 22.00   |
|           |            | 12      | 0         | 19.85   | 19.79   | 19.70   | 21.00   |
|           |            | 12      | 6         | 19.92   | 19.88   | 19.68   | 21.00   |
|           |            | 12      | 13        | 19.97   | 19.88   | 19.73   | 21.00   |
|           |            | 25      | 0         | 20.00   | 19.96   | 19.63   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.93   | 22.85   | 22.86   | 24.00   |
|           |            | 1       | 25        | 22.91   | 22.87   | 22.75   | 24.00   |
|           |            | 1       | 49        | 22.89   | 22.76   | 22.67   | 24.00   |
|           |            | 25      | 0         | 22.09   | 21.95   | 21.85   | 23.00   |
|           |            | 25      | 13        | 22.09   | 21.99   | 21.85   | 23.00   |
|           |            | 25      | 25        | 22.04   | 21.87   | 21.80   | 23.00   |
|           |            | 50      | 0         | 22.04   | 21.88   | 21.81   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.63   | 22.13   | 22.07   | 23.00   |
|           |            | 1       | 25        | 22.51   | 22.03   | 21.93   | 23.00   |
|           |            | 1       | 49        | 22.50   | 22.05   | 21.92   | 23.00   |
|           |            | 25      | 0         | 21.15   | 20.91   | 20.88   | 22.00   |
|           |            | 25      | 13        | 21.10   | 21.00   | 20.94   | 22.00   |
|           |            | 25      | 25        | 21.05   | 20.88   | 20.85   | 22.00   |
|           |            | 50      | 0         | 21.05   | 20.89   | 20.83   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.84   | 20.85   | 20.80   | 22.00   |
|           |            | 1       | 25        | 20.93   | 20.74   | 20.80   | 22.00   |
|           |            | 1       | 49        | 20.95   | 20.68   | 20.72   | 22.00   |
|           |            | 25      | 0         | 19.92   | 19.68   | 19.67   | 21.00   |
|           |            | 25      | 13        | 19.99   | 19.77   | 19.85   | 21.00   |
|           |            | 25      | 25        | 19.81   | 19.66   | 19.85   | 21.00   |
|           |            | 50      | 0         | 19.95   | 19.71   | 19.78   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |

| 15MHz     | QPSK       | 1       | 0         | 22.91   | 22.93   | 22.76   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 22.79   | 22.75   | 22.63   | 24.00   |
|           |            | 1       | 74        | 22.88   | 22.65   | 22.52   | 24.00   |
|           |            | 36      | 0         | 21.95   | 21.82   | 21.78   | 23.00   |
|           |            | 36      | 18        | 21.95   | 21.83   | 21.75   | 23.00   |
|           |            | 36      | 39        | 21.85   | 21.77   | 21.71   | 23.00   |
|           |            | 75      | 0         | 21.90   | 21.77   | 21.73   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.55   | 22.00   | 22.17   | 23.00   |
|           |            | 1       | 38        | 22.44   | 21.94   | 22.04   | 23.00   |
|           |            | 1       | 74        | 22.36   | 21.92   | 21.88   | 23.00   |
|           |            | 36      | 0         | 20.98   | 20.83   | 20.76   | 22.00   |
|           |            | 36      | 18        | 20.98   | 20.85   | 20.76   | 22.00   |
|           |            | 36      | 39        | 20.91   | 20.77   | 20.67   | 22.00   |
|           |            | 75      | 0         | 20.94   | 20.78   | 20.72   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.88   | 20.96   | 20.69   | 22.00   |
|           |            | 1       | 38        | 20.78   | 20.83   | 20.65   | 22.00   |
|           |            | 1       | 74        | 20.81   | 20.88   | 20.74   | 22.00   |
|           |            | 36      | 0         | 19.90   | 19.84   | 19.62   | 21.00   |
|           |            | 36      | 18        | 19.81   | 19.81   | 19.72   | 21.00   |
|           |            | 36      | 39        | 19.86   | 19.94   | 19.65   | 21.00   |
|           |            | 75      | 0         | 19.84   | 19.91   | 19.64   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.87   | 23.02   | 22.92   | 24.00   |
|           |            | 1       | 50        | 22.75   | 22.70   | 22.52   | 24.00   |
|           |            | 1       | 99        | 22.70   | 22.63   | 22.56   | 24.00   |
|           |            | 50      | 0         | 21.96   | 21.82   | 21.79   | 23.00   |
|           |            | 50      | 25        | 21.95   | 21.80   | 21.75   | 23.00   |
|           |            | 50      | 50        | 21.87   | 21.68   | 21.66   | 23.00   |
|           |            | 100     | 0         | 21.91   | 21.77   | 21.75   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.56   | 22.17   | 22.07   | 23.00   |
|           |            | 1       | 50        | 22.41   | 22.01   | 21.91   | 23.00   |
|           |            | 1       | 99        | 22.46   | 21.96   | 21.73   | 23.00   |
|           |            | 50      | 0         | 20.92   | 20.79   | 20.80   | 22.00   |
|           |            | 50      | 25        | 20.87   | 20.75   | 20.77   | 22.00   |
|           |            | 50      | 50        | 20.80   | 20.70   | 20.70   | 22.00   |
|           |            | 100     | 0         | 20.94   | 20.81   | 20.75   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.82   | 20.81   | 21.07   | 22.00   |
|           |            | 1       | 50        | 20.72   | 20.83   | 21.10   | 22.00   |
|           |            | 1       | 99        | 20.79   | 20.85   | 20.94   | 22.00   |
|           |            | 50      | 0         | 19.79   | 19.71   | 20.07   | 21.00   |
|           |            | 50      | 25        | 19.81   | 19.80   | 19.98   | 21.00   |
|           |            | 50      | 50        | 19.80   | 19.82   | 19.99   | 21.00   |
|           |            | 100     | 0         | 19.74   | 19.77   | 19.99   | 21.00   |

| LTE Band 4 Ant0 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|           |            |         |           | 19957   | 20175   | 20393   |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| 1.4MHz    | QPSK       | 1       | 0         | 16.08   | 16.35   | 16.12   | 17.50   |
|           |            | 1       | 2         | 16.07   | 16.28   | 16.27   | 17.50   |
|           |            | 1       | 5         | 16.07   | 16.16   | 16.15   | 17.50   |
|           |            | 3       | 0         | 16.23   | 16.17   | 16.13   | 17.50   |
|           |            | 3       | 2         | 16.19   | 16.24   | 16.22   | 17.50   |
|           |            | 3       | 3         | 16.16   | 16.26   | 16.14   | 17.50   |
|           |            | 6       | 0         | 16.24   | 16.26   | 16.24   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.10   | 16.18   | 16.20   | 17.50   |
|           |            | 1       | 2         | 16.08   | 16.26   | 16.26   | 17.50   |
|           |            | 1       | 5         | 16.17   | 16.17   | 16.16   | 17.50   |
|           |            | 3       | 0         | 16.20   | 16.32   | 16.20   | 17.50   |
|           |            | 3       | 2         | 16.07   | 16.20   | 16.12   | 17.50   |
|           |            | 3       | 3         | 16.17   | 16.17   | 16.30   | 17.50   |
|           |            | 6       | 0         | 16.21   | 16.26   | 16.27   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.10   | 16.32   | 16.15   | 17.50   |
|           |            | 1       | 2         | 16.11   | 16.17   | 16.13   | 17.50   |
|           |            | 1       | 5         | 16.14   | 16.32   | 16.11   | 17.50   |
|           |            | 3       | 0         | 16.11   | 16.17   | 16.11   | 17.50   |
|           |            | 3       | 2         | 16.09   | 16.16   | 16.24   | 17.50   |
|           |            | 3       | 3         | 16.23   | 16.29   | 16.30   | 17.50   |
|           |            | 6       | 0         | 16.15   | 16.22   | 16.12   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19965   | 20175   | 20385   |         |
| 3MHz      | QPSK       | 1       | 0         | 16.15   | 16.36   | 16.31   | 17.50   |
|           |            | 1       | 7         | 16.19   | 16.20   | 16.31   | 17.50   |
|           |            | 1       | 14        | 16.06   | 16.27   | 16.31   | 17.50   |
|           |            | 8       | 0         | 16.11   | 16.34   | 16.31   | 17.50   |
|           |            | 8       | 4         | 16.21   | 16.19   | 16.13   | 17.50   |
|           |            | 8       | 7         | 16.14   | 16.28   | 16.30   | 17.50   |
|           |            | 15      | 0         | 16.23   | 16.26   | 16.16   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.08   | 16.29   | 16.22   | 17.50   |
|           |            | 1       | 7         | 16.07   | 16.21   | 16.22   | 17.50   |
|           |            | 1       | 14        | 16.17   | 16.21   | 16.12   | 17.50   |
|           |            | 8       | 0         | 16.18   | 16.22   | 16.29   | 17.50   |
|           |            | 8       | 4         | 16.25   | 16.32   | 16.31   | 17.50   |
|           |            | 8       | 7         | 16.19   | 16.27   | 16.27   | 17.50   |
|           |            | 15      | 0         | 16.18   | 16.32   | 16.17   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.11   | 16.33   | 16.20   | 17.50   |
|           |            | 1       | 7         | 16.21   | 16.26   | 16.20   | 17.50   |
|           |            | 1       | 14        | 16.08   | 16.22   | 16.18   | 17.50   |
|           |            | 8       | 0         | 16.15   | 16.24   | 16.28   | 17.50   |
|           |            | 8       | 4         | 16.09   | 16.34   | 16.20   | 17.50   |
|           |            | 8       | 7         | 16.15   | 16.24   | 16.15   | 17.50   |
|           |            | 15      | 0         | 16.08   | 16.18   | 16.19   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 16.08   | 16.30   | 16.15   | 17.50   |
|           |            | 1       | 13        | 16.07   | 16.36   | 16.31   | 17.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 24        | 16.08   | 16.33   | 16.25   | 17.50   |
|           |            | 12      | 0         | 16.14   | 16.35   | 16.13   | 17.50   |
|           |            | 12      | 6         | 16.11   | 16.30   | 16.25   | 17.50   |
|           |            | 12      | 13        | 16.24   | 16.19   | 16.17   | 17.50   |
|           |            | 25      | 0         | 16.08   | 16.26   | 16.25   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.26   | 16.25   | 16.19   | 17.50   |
|           |            | 1       | 13        | 16.22   | 16.31   | 16.14   | 17.50   |
|           |            | 1       | 24        | 16.22   | 16.28   | 16.27   | 17.50   |
|           |            | 12      | 0         | 16.09   | 16.23   | 16.30   | 17.50   |
|           |            | 12      | 6         | 16.10   | 16.28   | 16.11   | 17.50   |
|           |            | 12      | 13        | 16.25   | 16.32   | 16.18   | 17.50   |
|           |            | 25      | 0         | 16.18   | 16.33   | 16.19   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.19   | 16.32   | 16.21   | 17.50   |
|           |            | 1       | 13        | 16.23   | 16.27   | 16.22   | 17.50   |
|           |            | 1       | 24        | 16.10   | 16.31   | 16.28   | 17.50   |
|           |            | 12      | 0         | 16.06   | 16.33   | 16.30   | 17.50   |
|           |            | 12      | 6         | 16.08   | 16.26   | 16.26   | 17.50   |
|           |            | 12      | 13        | 16.11   | 16.30   | 16.12   | 17.50   |
|           |            | 25      | 0         | 16.14   | 16.30   | 16.13   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 16.09   | 16.22   | 16.29   | 17.50   |
|           |            | 1       | 25        | 16.18   | 16.34   | 16.17   | 17.50   |
|           |            | 1       | 49        | 16.23   | 16.30   | 16.19   | 17.50   |
|           |            | 25      | 0         | 16.21   | 16.20   | 16.22   | 17.50   |
|           |            | 25      | 13        | 16.10   | 16.29   | 16.24   | 17.50   |
|           |            | 25      | 25        | 16.12   | 16.19   | 16.29   | 17.50   |
|           |            | 50      | 0         | 16.11   | 16.28   | 16.17   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.13   | 16.23   | 16.13   | 17.50   |
|           |            | 1       | 25        | 16.21   | 16.24   | 16.27   | 17.50   |
|           |            | 1       | 49        | 16.09   | 16.22   | 16.17   | 17.50   |
|           |            | 25      | 0         | 16.10   | 16.23   | 16.26   | 17.50   |
|           |            | 25      | 13        | 16.18   | 16.30   | 16.26   | 17.50   |
|           |            | 25      | 25        | 16.15   | 16.22   | 16.24   | 17.50   |
|           |            | 50      | 0         | 16.24   | 16.32   | 16.30   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.12   | 16.25   | 16.29   | 17.50   |
|           |            | 1       | 25        | 16.14   | 16.29   | 16.14   | 17.50   |
|           |            | 1       | 49        | 16.16   | 16.30   | 16.14   | 17.50   |
|           |            | 25      | 0         | 16.10   | 16.32   | 16.30   | 17.50   |
|           |            | 25      | 13        | 16.24   | 16.36   | 16.23   | 17.50   |
|           |            | 25      | 25        | 16.19   | 16.23   | 16.28   | 17.50   |
|           |            | 50      | 0         | 16.11   | 16.18   | 16.23   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.11   | 16.35   | 16.21   | 17.50   |
|           |            | 1       | 38        | 16.14   | 16.22   | 16.28   | 17.50   |
|           |            | 1       | 74        | 16.19   | 16.24   | 16.26   | 17.50   |
|           |            | 36      | 0         | 16.20   | 16.28   | 16.23   | 17.50   |
|           |            | 36      | 18        | 16.20   | 16.34   | 16.30   | 17.50   |
|           |            | 36      | 39        | 16.20   | 16.32   | 16.15   | 17.50   |
|           |            | 75      | 0         | 16.25   | 16.17   | 16.23   | 17.50   |



|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 16QAM      | 1       | 0         | 16.18   | 16.29   | 16.17   | 17.50   |
|           |            | 1       | 38        | 16.24   | 16.34   | 16.26   | 17.50   |
|           |            | 1       | 74        | 16.19   | 16.21   | 16.20   | 17.50   |
|           |            | 36      | 0         | 16.14   | 16.33   | 16.14   | 17.50   |
|           |            | 36      | 18        | 16.07   | 16.29   | 16.21   | 17.50   |
|           |            | 36      | 39        | 16.13   | 16.24   | 16.20   | 17.50   |
|           |            | 75      | 0         | 16.18   | 16.19   | 16.28   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.09   | 16.28   | 16.27   | 17.50   |
|           |            | 1       | 38        | 16.12   | 16.34   | 16.15   | 17.50   |
|           |            | 1       | 74        | 16.26   | 16.36   | 16.17   | 17.50   |
|           |            | 36      | 0         | 16.10   | 16.35   | 16.26   | 17.50   |
|           |            | 36      | 18        | 16.08   | 16.35   | 16.22   | 17.50   |
|           |            | 36      | 39        | 16.19   | 16.24   | 16.19   | 17.50   |
|           |            | 75      | 0         | 16.15   | 16.19   | 16.12   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 16.27   | 16.37   | 16.32   | 17.50   |
|           |            | 1       | 50        | 16.22   | 16.27   | 16.24   | 17.50   |
|           |            | 1       | 99        | 16.13   | 16.20   | 16.12   | 17.50   |
|           |            | 50      | 0         | 16.24   | 16.30   | 16.28   | 17.50   |
|           |            | 50      | 25        | 16.14   | 16.23   | 16.25   | 17.50   |
|           |            | 50      | 50        | 16.25   | 16.23   | 16.18   | 17.50   |
|           |            | 100     | 0         | 16.15   | 16.17   | 16.28   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.21   | 16.32   | 16.18   | 17.50   |
|           |            | 1       | 50        | 16.23   | 16.22   | 16.24   | 17.50   |
|           |            | 1       | 99        | 16.11   | 16.16   | 16.19   | 17.50   |
|           |            | 50      | 0         | 16.18   | 16.26   | 16.16   | 17.50   |
|           |            | 50      | 25        | 16.09   | 16.30   | 16.18   | 17.50   |
|           |            | 50      | 50        | 16.25   | 16.28   | 16.23   | 17.50   |
|           |            | 100     | 0         | 16.10   | 16.28   | 16.27   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.21   | 16.16   | 16.19   | 17.50   |
|           |            | 1       | 50        | 16.10   | 16.29   | 16.25   | 17.50   |
|           |            | 1       | 99        | 16.09   | 16.25   | 16.13   | 17.50   |
|           |            | 50      | 0         | 16.15   | 16.24   | 16.11   | 17.50   |
|           |            | 50      | 25        | 16.22   | 16.22   | 16.25   | 17.50   |
|           |            | 50      | 50        | 16.21   | 16.26   | 16.27   | 17.50   |
|           |            | 100     | 0         | 16.13   | 16.32   | 16.11   | 17.50   |

| LTE Band 4 Ant0 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 17.11                | 17.31   | 17.18   | 18.50   |
|                            |            | 1       | 2         | 17.03                | 17.27   | 17.23   | 18.50   |
|                            |            | 1       | 5         | 17.14                | 17.15   | 17.23   | 18.50   |
|                            |            | 3       | 0         | 17.03                | 17.14   | 17.24   | 18.50   |
|                            |            | 3       | 2         | 17.08                | 17.13   | 17.17   | 18.50   |
|                            |            | 3       | 3         | 17.12                | 17.28   | 17.18   | 18.50   |

|           | 16QAM      | 6       | 0         | 16.97   | 17.13   | 17.17   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 17.07   | 17.19   | 17.10   | 18.50   |
|           |            | 1       | 2         | 17.09   | 17.25   | 17.20   | 18.50   |
|           |            | 1       | 5         | 17.06   | 17.14   | 17.13   | 18.50   |
|           |            | 3       | 0         | 17.05   | 17.21   | 17.08   | 18.50   |
|           |            | 3       | 2         | 16.98   | 17.26   | 17.25   | 18.50   |
|           |            | 3       | 3         | 16.99   | 17.19   | 17.09   | 18.50   |
|           | 64QAM      | 6       | 0         | 17.05   | 17.30   | 17.21   | 18.50   |
|           |            | 1       | 0         | 17.08   | 17.18   | 17.07   | 18.50   |
|           |            | 1       | 2         | 17.11   | 17.21   | 17.22   | 18.50   |
|           |            | 1       | 5         | 17.01   | 17.30   | 17.07   | 18.50   |
|           |            | 3       | 0         | 17.14   | 17.17   | 17.13   | 18.50   |
|           |            | 3       | 2         | 17.08   | 17.18   | 17.16   | 18.50   |
|           |            | 3       | 3         | 16.99   | 17.13   | 17.10   | 18.50   |
|           |            | 6       | 0         | 17.15   | 17.15   | 17.19   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19965   | 20175   | 20385   |         |
| 3MHz      | QPSK       | 1       | 0         | 17.00   | 17.26   | 17.26   | 18.50   |
|           |            | 1       | 7         | 16.96   | 17.31   | 17.16   | 18.50   |
|           |            | 1       | 14        | 17.13   | 17.24   | 17.20   | 18.50   |
|           |            | 8       | 0         | 17.04   | 17.13   | 17.16   | 18.50   |
|           |            | 8       | 4         | 17.01   | 17.14   | 17.22   | 18.50   |
|           |            | 8       | 7         | 17.01   | 17.21   | 17.21   | 18.50   |
|           |            | 15      | 0         | 17.04   | 17.18   | 17.07   | 18.50   |
|           | 16QAM      | 1       | 0         | 16.99   | 17.21   | 17.24   | 18.50   |
|           |            | 1       | 7         | 17.13   | 17.19   | 17.21   | 18.50   |
|           |            | 1       | 14        | 16.99   | 17.15   | 17.18   | 18.50   |
|           |            | 8       | 0         | 17.06   | 17.18   | 17.21   | 18.50   |
|           |            | 8       | 4         | 17.12   | 17.12   | 17.19   | 18.50   |
|           |            | 8       | 7         | 17.12   | 17.29   | 17.19   | 18.50   |
|           |            | 15      | 0         | 17.14   | 17.26   | 17.24   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.06   | 17.19   | 17.15   | 18.50   |
|           |            | 1       | 7         | 17.07   | 17.30   | 17.16   | 18.50   |
|           |            | 1       | 14        | 17.08   | 17.19   | 17.25   | 18.50   |
|           |            | 8       | 0         | 16.97   | 17.29   | 17.13   | 18.50   |
|           |            | 8       | 4         | 17.12   | 17.14   | 17.18   | 18.50   |
|           |            | 8       | 7         | 17.10   | 17.30   | 17.10   | 18.50   |
|           |            | 15      | 0         | 17.14   | 17.30   | 17.20   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 17.10   | 17.32   | 17.20   | 18.50   |
|           |            | 1       | 13        | 17.05   | 17.23   | 17.24   | 18.50   |
|           |            | 1       | 24        | 17.14   | 17.29   | 17.11   | 18.50   |
|           |            | 12      | 0         | 16.99   | 17.18   | 17.15   | 18.50   |
|           |            | 12      | 6         | 17.14   | 17.13   | 17.06   | 18.50   |
|           |            | 12      | 13        | 17.13   | 17.13   | 17.20   | 18.50   |
|           |            | 25      | 0         | 17.11   | 17.14   | 17.14   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.07   | 17.23   | 17.23   | 18.50   |
|           |            | 1       | 13        | 17.13   | 17.29   | 17.25   | 18.50   |

|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  |                   | 1              | 24               | 17.08          | 17.12          | 17.09          | 18.50          |
|                  |                   | 12             | 0                | 17.13          | 17.15          | 17.11          | 18.50          |
|                  |                   | 12             | 6                | 17.15          | 17.29          | 17.09          | 18.50          |
|                  |                   | 12             | 13               | 16.98          | 17.31          | 17.14          | 18.50          |
|                  |                   | 25             | 0                | 17.11          | 17.17          | 17.25          | 18.50          |
|                  | 64QAM             | 1              | 0                | 16.95          | 17.13          | 17.10          | 18.50          |
|                  |                   | 1              | 13               | 17.13          | 17.23          | 17.24          | 18.50          |
|                  |                   | 1              | 24               | 17.07          | 17.31          | 17.08          | 18.50          |
|                  |                   | 12             | 0                | 17.01          | 17.13          | 17.25          | 18.50          |
|                  |                   | 12             | 6                | 17.02          | 17.23          | 17.15          | 18.50          |
|                  |                   | 12             | 13               | 16.95          | 17.19          | 17.07          | 18.50          |
|                  |                   | 25             | 0                | 17.10          | 17.21          | 17.14          | 18.50          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
|                  |                   |                |                  | 20000          | 20175          | 20350          |                |
| <b>10MHz</b>     | QPSK              | 1              | 0                | 17.12          | 17.31          | 17.20          | 18.50          |
|                  |                   | 1              | 25               | 16.97          | 17.26          | 17.18          | 18.50          |
|                  |                   | 1              | 49               | 17.00          | 17.19          | 17.07          | 18.50          |
|                  |                   | 25             | 0                | 17.08          | 17.23          | 17.24          | 18.50          |
|                  |                   | 25             | 13               | 16.97          | 17.18          | 17.15          | 18.50          |
|                  |                   | 25             | 25               | 17.13          | 17.25          | 17.20          | 18.50          |
|                  |                   | 50             | 0                | 17.15          | 17.25          | 17.13          | 18.50          |
|                  | 16QAM             | 1              | 0                | 17.06          | 17.27          | 17.25          | 18.50          |
|                  |                   | 1              | 25               | 17.00          | 17.17          | 17.11          | 18.50          |
|                  |                   | 1              | 49               | 17.01          | 17.28          | 17.14          | 18.50          |
|                  |                   | 25             | 0                | 17.01          | 17.19          | 17.26          | 18.50          |
|                  |                   | 25             | 13               | 16.95          | 17.24          | 17.18          | 18.50          |
|                  |                   | 25             | 25               | 17.14          | 17.21          | 17.14          | 18.50          |
|                  |                   | 50             | 0                | 17.12          | 17.24          | 17.20          | 18.50          |
|                  | 64QAM             | 1              | 0                | 16.97          | 17.12          | 17.06          | 18.50          |
|                  |                   | 1              | 25               | 17.09          | 17.12          | 17.11          | 18.50          |
|                  |                   | 1              | 49               | 17.14          | 17.25          | 17.16          | 18.50          |
|                  |                   | 25             | 0                | 17.14          | 17.15          | 17.20          | 18.50          |
|                  |                   | 25             | 13               | 17.00          | 17.17          | 17.20          | 18.50          |
|                  |                   | 25             | 25               | 17.05          | 17.21          | 17.18          | 18.50          |
|                  |                   | 50             | 0                | 17.05          | 17.17          | 17.13          | 18.50          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
|                  |                   |                |                  | 20025          | 20175          | 20325          |                |
| <b>15MHz</b>     | QPSK              | 1              | 0                | 17.13          | 17.32          | 17.16          | 18.50          |
|                  |                   | 1              | 38               | 17.00          | 17.16          | 17.17          | 18.50          |
|                  |                   | 1              | 74               | 16.96          | 17.15          | 17.16          | 18.50          |
|                  |                   | 36             | 0                | 17.07          | 17.28          | 17.21          | 18.50          |
|                  |                   | 36             | 18               | 17.00          | 17.16          | 17.21          | 18.50          |
|                  |                   | 36             | 39               | 17.12          | 17.18          | 17.25          | 18.50          |
|                  |                   | 75             | 0                | 17.12          | 17.13          | 17.21          | 18.50          |
|                  | 16QAM             | 1              | 0                | 17.05          | 17.25          | 17.16          | 18.50          |
|                  |                   | 1              | 38               | 17.11          | 17.18          | 17.06          | 18.50          |
|                  |                   | 1              | 74               | 16.97          | 17.31          | 17.19          | 18.50          |
|                  |                   | 36             | 0                | 16.98          | 17.27          | 17.19          | 18.50          |
|                  |                   | 36             | 18               | 17.00          | 17.15          | 17.18          | 18.50          |
|                  |                   | 36             | 39               | 17.13          | 17.21          | 17.07          | 18.50          |
|                  |                   | 75             | 0                | 17.08          | 17.19          | 17.24          | 18.50          |

|           |            | 1       | 0         | 16.97            | 17.20            | 17.16            | 18.50   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 1       | 38        | 17.01            | 17.23            | 17.11            | 18.50   |
|           |            | 1       | 74        | 17.08            | 17.19            | 17.23            | 18.50   |
|           | 64QAM      | 36      | 0         | 17.09            | 17.20            | 17.20            | 18.50   |
|           |            | 36      | 18        | 17.03            | 17.15            | 17.17            | 18.50   |
|           |            | 36      | 39        | 17.01            | 17.29            | 17.14            | 18.50   |
|           |            | 75      | 0         | 16.99            | 17.12            | 17.20            | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20050 | Channel<br>20175 | Channel<br>20300 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 17.16            | 17.33            | 17.27            | 18.50   |
|           |            | 1       | 50        | 17.05            | 17.13            | 17.20            | 18.50   |
|           |            | 1       | 99        | 17.13            | 17.22            | 17.18            | 18.50   |
|           |            | 50      | 0         | 17.15            | 17.28            | 17.21            | 18.50   |
|           |            | 50      | 25        | 17.11            | 17.17            | 17.17            | 18.50   |
|           |            | 50      | 50        | 17.13            | 17.20            | 17.14            | 18.50   |
|           |            | 100     | 0         | 17.10            | 17.27            | 17.20            | 18.50   |
|           | 16QAM      | 1       | 0         | 17.05            | 17.22            | 17.13            | 18.50   |
|           |            | 1       | 50        | 16.96            | 17.16            | 17.07            | 18.50   |
|           |            | 1       | 99        | 17.03            | 17.16            | 17.15            | 18.50   |
|           |            | 50      | 0         | 17.11            | 17.15            | 17.07            | 18.50   |
|           |            | 50      | 25        | 17.10            | 17.19            | 17.10            | 18.50   |
|           |            | 50      | 50        | 17.02            | 17.18            | 17.13            | 18.50   |
|           |            | 100     | 0         | 17.15            | 17.24            | 17.10            | 18.50   |
|           | 64QAM      | 1       | 0         | 16.98            | 17.27            | 17.10            | 18.50   |
|           |            | 1       | 50        | 17.04            | 17.32            | 17.10            | 18.50   |
|           |            | 1       | 99        | 16.99            | 17.19            | 17.14            | 18.50   |
|           |            | 50      | 0         | 17.04            | 17.24            | 17.08            | 18.50   |
|           |            | 50      | 25        | 17.06            | 17.32            | 17.22            | 18.50   |
|           |            | 50      | 50        | 17.09            | 17.15            | 17.10            | 18.50   |
|           |            | 100     | 0         | 17.01            | 17.29            | 17.19            | 18.50   |

| LTE Band 4 Ant0 Sensor on |            |         |           | Conducted Power(dBm) |                  |                  |         |
|---------------------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth                 | Modulation | RB size | RB offset | Channel<br>19957     | Channel<br>20175 | Channel<br>20393 | Tune up |
| 1.4MHz                    | QPSK       | 1       | 0         | 17.61                | 17.82            | 17.62            | 19.00   |
|                           |            | 1       | 2         | 17.50                | 17.79            | 17.69            | 19.00   |
|                           |            | 1       | 5         | 17.60                | 17.72            | 17.69            | 19.00   |
|                           |            | 3       | 0         | 17.48                | 17.56            | 17.74            | 19.00   |
|                           |            | 3       | 2         | 17.65                | 17.59            | 17.66            | 19.00   |
|                           |            | 3       | 3         | 17.71                | 17.80            | 17.60            | 19.00   |
|                           |            | 6       | 0         | 17.39                | 17.63            | 17.60            | 19.00   |
|                           | 16QAM      | 1       | 0         | 17.48                | 17.66            | 17.51            | 19.00   |
|                           |            | 1       | 2         | 17.69                | 17.80            | 17.74            | 19.00   |
|                           |            | 1       | 5         | 17.54                | 17.66            | 17.68            | 19.00   |
|                           |            | 3       | 0         | 17.60                | 17.70            | 17.64            | 19.00   |
|                           |            | 3       | 2         | 17.56                | 17.71            | 17.73            | 19.00   |
|                           |            | 3       | 3         | 17.41                | 17.66            | 17.54            | 19.00   |

|           |            | 6       | 0         | 17.50   | 17.71   | 17.70   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 17.64   | 17.75   | 17.57   | 19.00   |
|           |            | 1       | 2         | 17.51   | 17.70   | 17.75   | 19.00   |
|           |            | 1       | 5         | 17.52   | 17.78   | 17.58   | 19.00   |
|           |            | 3       | 0         | 17.70   | 17.68   | 17.60   | 19.00   |
|           |            | 3       | 2         | 17.55   | 17.75   | 17.62   | 19.00   |
|           |            | 3       | 3         | 17.40   | 17.53   | 17.68   | 19.00   |
|           |            | 6       | 0         | 17.58   | 17.71   | 17.59   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19965   | 20175   | 20385   |         |
| 3MHz      | QPSK       | 1       | 0         | 17.42   | 17.84   | 17.72   | 19.00   |
|           |            | 1       | 7         | 17.45   | 17.73   | 17.67   | 19.00   |
|           |            | 1       | 14        | 17.70   | 17.83   | 17.76   | 19.00   |
|           |            | 8       | 0         | 17.44   | 17.71   | 17.74   | 19.00   |
|           |            | 8       | 4         | 17.53   | 17.65   | 17.70   | 19.00   |
|           |            | 8       | 7         | 17.58   | 17.62   | 17.72   | 19.00   |
|           |            | 15      | 0         | 17.54   | 17.76   | 17.53   | 19.00   |
|           |            | 15      | 7         | 17.54   | 17.76   | 17.53   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.56   | 17.78   | 17.66   | 19.00   |
|           |            | 1       | 7         | 17.69   | 17.72   | 17.63   | 19.00   |
|           |            | 1       | 14        | 17.57   | 17.57   | 17.61   | 19.00   |
|           |            | 8       | 0         | 17.66   | 17.61   | 17.76   | 19.00   |
|           |            | 8       | 4         | 17.65   | 17.57   | 17.61   | 19.00   |
|           |            | 8       | 7         | 17.65   | 17.60   | 17.63   | 19.00   |
|           |            | 15      | 0         | 17.62   | 17.68   | 17.78   | 19.00   |
|           |            | 15      | 7         | 17.62   | 17.68   | 17.78   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.64   | 17.67   | 17.58   | 19.00   |
|           |            | 1       | 7         | 17.55   | 17.73   | 17.69   | 19.00   |
|           |            | 1       | 14        | 17.57   | 17.68   | 17.81   | 19.00   |
|           |            | 8       | 0         | 17.45   | 17.80   | 17.58   | 19.00   |
|           |            | 8       | 4         | 17.54   | 17.63   | 17.70   | 19.00   |
|           |            | 8       | 7         | 17.68   | 17.78   | 17.65   | 19.00   |
|           |            | 15      | 0         | 17.68   | 17.50   | 17.67   | 19.00   |
|           |            | 15      | 7         | 17.68   | 17.50   | 17.67   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 17.52   | 17.88   | 17.68   | 19.00   |
|           |            | 1       | 13        | 17.59   | 17.82   | 17.70   | 19.00   |
|           |            | 1       | 24        | 17.73   | 17.76   | 17.51   | 19.00   |
|           |            | 12      | 0         | 17.59   | 17.69   | 17.55   | 19.00   |
|           |            | 12      | 6         | 17.70   | 17.59   | 17.53   | 19.00   |
|           |            | 12      | 13        | 17.65   | 17.57   | 17.65   | 19.00   |
|           |            | 25      | 0         | 17.60   | 17.74   | 17.59   | 19.00   |
|           |            | 25      | 13        | 17.60   | 17.74   | 17.59   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.62   | 17.80   | 17.77   | 19.00   |
|           |            | 1       | 13        | 17.70   | 17.77   | 17.81   | 19.00   |
|           |            | 1       | 24        | 17.51   | 17.71   | 17.67   | 19.00   |
|           |            | 12      | 0         | 17.60   | 17.73   | 17.61   | 19.00   |
|           |            | 12      | 6         | 17.59   | 17.80   | 17.67   | 19.00   |
|           |            | 12      | 13        | 17.55   | 17.77   | 17.63   | 19.00   |
|           |            | 25      | 0         | 17.63   | 17.65   | 17.68   | 19.00   |
|           |            | 25      | 13        | 17.63   | 17.65   | 17.68   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.36   | 17.68   | 17.60   | 19.00   |
|           |            | 1       | 13        | 17.73   | 17.78   | 17.84   | 19.00   |

|           |            | 1       | 24        | 17.59   | 17.78   | 17.54   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 0         | 17.41   | 17.69   | 17.84   | 19.00   |
|           |            | 12      | 6         | 17.58   | 17.81   | 17.69   | 19.00   |
|           |            | 12      | 13        | 17.47   | 17.75   | 17.54   | 19.00   |
|           |            | 25      | 0         | 17.60   | 17.66   | 17.68   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 17.64   | 17.85   | 17.70   | 19.00   |
|           |            | 1       | 25        | 17.37   | 17.81   | 17.74   | 19.00   |
|           |            | 1       | 49        | 17.45   | 17.68   | 17.50   | 19.00   |
|           |            | 25      | 0         | 17.63   | 17.79   | 17.76   | 19.00   |
|           |            | 25      | 13        | 17.53   | 17.72   | 17.65   | 19.00   |
|           |            | 25      | 25        | 17.59   | 17.69   | 17.76   | 19.00   |
|           |            | 50      | 0         | 17.58   | 17.80   | 17.67   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.63   | 17.79   | 17.81   | 19.00   |
|           |            | 1       | 25        | 17.58   | 17.72   | 17.63   | 19.00   |
|           |            | 1       | 49        | 17.50   | 17.79   | 17.74   | 19.00   |
|           |            | 25      | 0         | 17.50   | 17.68   | 17.69   | 19.00   |
|           |            | 25      | 13        | 17.49   | 17.77   | 17.77   | 19.00   |
|           |            | 25      | 25        | 17.59   | 17.67   | 17.67   | 19.00   |
|           |            | 50      | 0         | 17.57   | 17.65   | 17.80   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.48   | 17.63   | 17.50   | 19.00   |
|           |            | 1       | 25        | 17.63   | 17.69   | 17.67   | 19.00   |
|           |            | 1       | 49        | 17.65   | 17.79   | 17.73   | 19.00   |
|           |            | 25      | 0         | 17.69   | 17.61   | 17.65   | 19.00   |
|           |            | 25      | 13        | 17.51   | 17.73   | 17.63   | 19.00   |
|           |            | 25      | 25        | 17.55   | 17.71   | 17.77   | 19.00   |
|           |            | 50      | 0         | 17.49   | 17.60   | 17.65   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.69   | 17.81   | 17.61   | 19.00   |
|           |            | 1       | 38        | 17.58   | 17.73   | 17.67   | 19.00   |
|           |            | 1       | 74        | 17.43   | 17.75   | 17.68   | 19.00   |
|           |            | 36      | 0         | 17.48   | 17.73   | 17.70   | 19.00   |
|           |            | 36      | 18        | 17.58   | 17.74   | 17.70   | 19.00   |
|           |            | 36      | 39        | 17.64   | 17.74   | 17.70   | 19.00   |
|           |            | 75      | 0         | 17.55   | 17.72   | 17.71   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.48   | 17.76   | 17.68   | 19.00   |
|           |            | 1       | 38        | 17.64   | 17.61   | 17.65   | 19.00   |
|           |            | 1       | 74        | 17.41   | 17.80   | 17.79   | 19.00   |
|           |            | 36      | 0         | 17.45   | 17.80   | 17.77   | 19.00   |
|           |            | 36      | 18        | 17.56   | 17.67   | 17.76   | 19.00   |
|           |            | 36      | 39        | 17.57   | 17.75   | 17.55   | 19.00   |
|           |            | 75      | 0         | 17.55   | 17.63   | 17.78   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.54   | 17.69   | 17.67   | 19.00   |
|           |            | 1       | 38        | 17.51   | 17.80   | 17.61   | 19.00   |
|           |            | 1       | 74        | 17.64   | 17.68   | 17.80   | 19.00   |
|           |            | 36      | 0         | 17.55   | 17.75   | 17.65   | 19.00   |
|           |            | 36      | 18        | 17.46   | 17.72   | 17.73   | 19.00   |
|           |            | 36      | 39        | 17.52   | 17.69   | 17.62   | 19.00   |
|           |            | 75      | 0         | 17.53   | 17.57   | 17.78   | 19.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20050   | 20175   | 20300   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.67   | 17.89   | 17.74   | 19.00   |
|           |            | 1       | 50        | 17.47   | 17.56   | 17.70   | 19.00   |
|           |            | 1       | 99        | 17.62   | 17.76   | 17.61   | 19.00   |
|           |            | 50      | 0         | 17.58   | 17.69   | 17.75   | 19.00   |
|           |            | 50      | 25        | 17.64   | 17.67   | 17.68   | 19.00   |
|           |            | 50      | 50        | 17.58   | 17.78   | 17.72   | 19.00   |
|           |            | 100     | 0         | 17.58   | 17.71   | 17.76   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.54   | 17.72   | 17.60   | 19.00   |
|           |            | 1       | 50        | 17.53   | 17.64   | 17.63   | 19.00   |
|           |            | 1       | 99        | 17.48   | 17.66   | 17.71   | 19.00   |
|           |            | 50      | 0         | 17.61   | 17.58   | 17.51   | 19.00   |
|           |            | 50      | 25        | 17.65   | 17.71   | 17.55   | 19.00   |
|           |            | 50      | 50        | 17.51   | 17.59   | 17.57   | 19.00   |
|           |            | 100     | 0         | 17.68   | 17.81   | 17.56   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.48   | 17.68   | 17.51   | 19.00   |
|           |            | 1       | 50        | 17.51   | 17.81   | 17.60   | 19.00   |
|           |            | 1       | 99        | 17.50   | 17.77   | 17.74   | 19.00   |
|           |            | 50      | 0         | 17.56   | 17.74   | 17.51   | 19.00   |
|           |            | 50      | 25        | 17.49   | 17.81   | 17.69   | 19.00   |
|           |            | 50      | 50        | 17.57   | 17.55   | 17.61   | 19.00   |
|           |            | 100     | 0         | 17.43   | 17.71   | 17.69   | 19.00   |

| LTE Band 5 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 22.18                | 22.36   | 22.47   | 24.00   |
|                            |            | 1       | 2         | 22.24                | 22.48   | 22.60   | 24.00   |
|                            |            | 1       | 5         | 22.18                | 22.40   | 22.46   | 24.00   |
|                            |            | 3       | 0         | 22.26                | 22.39   | 22.41   | 24.00   |
|                            |            | 3       | 2         | 22.37                | 22.46   | 22.45   | 24.00   |
|                            |            | 3       | 3         | 22.22                | 22.42   | 22.47   | 24.00   |
|                            |            | 6       | 0         | 21.33                | 21.43   | 21.57   | 23.00   |
|                            | 16QAM      | 1       | 0         | 21.30                | 21.67   | 21.58   | 23.00   |
|                            |            | 1       | 2         | 21.45                | 21.72   | 21.73   | 23.00   |
|                            |            | 1       | 5         | 21.32                | 21.69   | 21.59   | 23.00   |
|                            |            | 3       | 0         | 21.51                | 21.45   | 21.55   | 23.00   |
|                            |            | 3       | 2         | 21.66                | 21.58   | 21.71   | 23.00   |
|                            |            | 3       | 3         | 21.53                | 21.51   | 21.60   | 23.00   |
|                            |            | 6       | 0         | 20.36                | 20.48   | 20.47   | 22.00   |
|                            | 64QAM      | 1       | 0         | 20.12                | 20.25   | 20.31   | 22.00   |
|                            |            | 1       | 2         | 20.22                | 20.40   | 20.50   | 22.00   |
|                            |            | 1       | 5         | 20.18                | 20.26   | 20.27   | 22.00   |
|                            |            | 3       | 0         | 20.20                | 20.28   | 20.34   | 22.00   |
|                            |            | 3       | 2         | 20.34                | 20.29   | 20.32   | 22.00   |
|                            |            | 3       | 3         | 20.19                | 20.23   | 20.33   | 22.00   |

|           |            | 6       | 0         | 19.32   | 19.26   | 19.55   | 21.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20415   | 20525   | 20635   |         |
| 3MHz      | QPSK       | 1       | 0         | 22.37   | 22.55   | 22.61   | 24.00   |
|           |            | 1       | 7         | 22.33   | 22.48   | 22.53   | 24.00   |
|           |            | 1       | 14        | 22.38   | 22.59   | 22.57   | 24.00   |
|           |            | 8       | 0         | 21.39   | 21.51   | 21.65   | 23.00   |
|           |            | 8       | 4         | 21.46   | 21.55   | 21.66   | 23.00   |
|           |            | 8       | 7         | 21.44   | 21.58   | 21.61   | 23.00   |
|           |            | 15      | 0         | 21.42   | 21.55   | 21.61   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.05   | 21.69   | 21.67   | 23.00   |
|           |            | 1       | 7         | 21.92   | 21.60   | 21.50   | 23.00   |
|           |            | 1       | 14        | 21.96   | 21.67   | 21.59   | 23.00   |
|           |            | 8       | 0         | 20.58   | 20.52   | 20.67   | 22.00   |
|           |            | 8       | 4         | 20.60   | 20.56   | 20.67   | 22.00   |
|           |            | 8       | 7         | 20.57   | 20.62   | 20.69   | 22.00   |
|           |            | 15      | 0         | 20.52   | 20.56   | 20.73   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.21   | 20.52   | 20.59   | 22.00   |
|           |            | 1       | 7         | 20.29   | 20.32   | 20.43   | 22.00   |
|           |            | 1       | 14        | 20.32   | 20.44   | 20.55   | 22.00   |
|           |            | 8       | 0         | 19.23   | 19.47   | 19.59   | 21.00   |
|           |            | 8       | 4         | 19.40   | 19.41   | 19.51   | 21.00   |
|           |            | 8       | 7         | 19.34   | 19.43   | 19.59   | 21.00   |
|           |            | 15      | 0         | 19.24   | 19.51   | 19.47   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20425   | 20525   | 20625   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.40   | 22.51   | 22.60   | 24.00   |
|           |            | 1       | 13        | 22.40   | 22.65   | 22.61   | 24.00   |
|           |            | 1       | 24        | 22.35   | 22.56   | 22.53   | 24.00   |
|           |            | 12      | 0         | 21.43   | 21.49   | 21.68   | 23.00   |
|           |            | 12      | 6         | 21.45   | 21.57   | 21.64   | 23.00   |
|           |            | 12      | 13        | 21.44   | 21.61   | 21.68   | 23.00   |
|           |            | 25      | 0         | 21.44   | 21.55   | 21.65   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.29   | 21.85   | 21.69   | 23.00   |
|           |            | 1       | 13        | 21.39   | 21.80   | 21.74   | 23.00   |
|           |            | 1       | 24        | 21.35   | 21.82   | 21.73   | 23.00   |
|           |            | 12      | 0         | 20.45   | 20.59   | 20.65   | 22.00   |
|           |            | 12      | 6         | 20.45   | 20.60   | 20.65   | 22.00   |
|           |            | 12      | 13        | 20.43   | 20.67   | 20.61   | 22.00   |
|           |            | 25      | 0         | 20.49   | 20.58   | 20.62   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.34   | 20.32   | 20.54   | 22.00   |
|           |            | 1       | 13        | 20.21   | 20.50   | 20.53   | 22.00   |
|           |            | 1       | 24        | 20.22   | 20.40   | 20.38   | 22.00   |
|           |            | 12      | 0         | 19.31   | 19.45   | 19.64   | 21.00   |
|           |            | 12      | 6         | 19.35   | 19.45   | 19.51   | 21.00   |
|           |            | 12      | 13        | 19.43   | 19.54   | 19.55   | 21.00   |
|           |            | 25      | 0         | 19.39   | 19.55   | 19.58   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20450   | 20525   | 20600   |         |



|       |       |    |    |       |       |       |       |
|-------|-------|----|----|-------|-------|-------|-------|
| 10MHz | QPSK  | 1  | 0  | 22.31 | 22.67 | 22.57 | 24.00 |
|       |       | 1  | 25 | 22.37 | 22.46 | 22.53 | 24.00 |
|       |       | 1  | 49 | 22.33 | 22.46 | 22.47 | 24.00 |
|       |       | 25 | 0  | 21.43 | 21.64 | 21.58 | 23.00 |
|       |       | 25 | 13 | 21.42 | 21.58 | 21.60 | 23.00 |
|       |       | 25 | 25 | 21.45 | 21.62 | 21.63 | 23.00 |
|       |       | 50 | 0  | 21.45 | 21.51 | 21.61 | 23.00 |
|       | 16QAM | 1  | 0  | 22.05 | 21.66 | 21.61 | 23.00 |
|       |       | 1  | 25 | 21.89 | 21.72 | 21.56 | 23.00 |
|       |       | 1  | 49 | 22.06 | 21.76 | 21.61 | 23.00 |
|       |       | 25 | 0  | 20.52 | 20.57 | 20.70 | 22.00 |
|       |       | 25 | 13 | 20.53 | 20.57 | 20.73 | 22.00 |
|       |       | 25 | 25 | 20.51 | 20.61 | 20.74 | 22.00 |
|       |       | 50 | 0  | 20.45 | 20.56 | 20.64 | 22.00 |
|       | 64QAM | 1  | 0  | 20.21 | 20.51 | 20.55 | 22.00 |
|       |       | 1  | 25 | 20.37 | 20.42 | 20.51 | 22.00 |
|       |       | 1  | 49 | 20.22 | 20.29 | 20.27 | 22.00 |
|       |       | 25 | 0  | 19.24 | 19.49 | 19.48 | 21.00 |
|       |       | 25 | 13 | 19.40 | 19.49 | 19.54 | 21.00 |
|       |       | 25 | 25 | 19.44 | 19.47 | 19.57 | 21.00 |
|       |       | 50 | 0  | 19.28 | 19.33 | 19.57 | 21.00 |

| LTE Band 5 Ant0 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 21.02                | 21.13   | 21.02   | 22.00   |
|                             |            | 1       | 2         | 20.85                | 21.05   | 20.95   | 22.00   |
|                             |            | 1       | 5         | 20.86                | 21.00   | 21.07   | 22.00   |
|                             |            | 3       | 0         | 20.99                | 21.11   | 20.98   | 22.00   |
|                             |            | 3       | 2         | 21.03                | 21.01   | 21.01   | 22.00   |
|                             |            | 3       | 3         | 21.00                | 21.01   | 21.06   | 22.00   |
|                             |            | 6       | 0         | 20.88                | 21.00   | 21.05   | 22.00   |
|                             | 16QAM      | 1       | 0         | 20.84                | 21.05   | 20.90   | 22.00   |
|                             |            | 1       | 2         | 20.97                | 21.04   | 21.02   | 22.00   |
|                             |            | 1       | 5         | 20.95                | 21.05   | 21.00   | 22.00   |
|                             |            | 3       | 0         | 20.87                | 21.11   | 21.09   | 22.00   |
|                             |            | 3       | 2         | 21.00                | 21.08   | 20.96   | 22.00   |
|                             |            | 3       | 3         | 20.90                | 21.10   | 21.06   | 22.00   |
|                             |            | 6       | 0         | 21.03                | 21.05   | 20.99   | 22.00   |
|                             | 64QAM      | 1       | 0         | 21.03                | 21.07   | 20.98   | 22.00   |
|                             |            | 1       | 2         | 20.85                | 20.99   | 20.98   | 22.00   |
|                             |            | 1       | 5         | 20.97                | 21.16   | 20.97   | 22.00   |
|                             |            | 3       | 0         | 20.89                | 21.11   | 20.95   | 22.00   |
|                             |            | 3       | 2         | 20.91                | 21.02   | 21.03   | 22.00   |
|                             |            | 3       | 3         | 20.98                | 21.12   | 20.97   | 22.00   |
|                             |            | 6       | 0         | 20.00                | 20.10   | 20.01   | 21.00   |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|           |            |         |           | 20415   | 20525   | 20635   |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| 3MHz      | QPSK       | 1       | 0         | 20.97   | 21.15   | 20.95   | 22.00   |
|           |            | 1       | 7         | 20.89   | 21.05   | 20.92   | 22.00   |
|           |            | 1       | 14        | 20.98   | 21.01   | 20.94   | 22.00   |
|           |            | 8       | 0         | 20.86   | 21.00   | 21.01   | 22.00   |
|           |            | 8       | 4         | 20.95   | 21.01   | 20.91   | 22.00   |
|           |            | 8       | 7         | 20.90   | 21.01   | 20.90   | 22.00   |
|           |            | 15      | 0         | 20.94   | 20.98   | 21.08   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.86   | 21.07   | 21.00   | 22.00   |
|           |            | 1       | 7         | 20.97   | 21.12   | 21.08   | 22.00   |
|           |            | 1       | 14        | 20.91   | 21.12   | 21.08   | 22.00   |
|           |            | 8       | 0         | 20.88   | 21.06   | 21.01   | 22.00   |
|           |            | 8       | 4         | 20.96   | 21.09   | 20.93   | 22.00   |
|           |            | 8       | 7         | 21.03   | 21.13   | 21.08   | 22.00   |
|           |            | 15      | 0         | 20.84   | 21.03   | 21.07   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.98   | 21.09   | 21.04   | 22.00   |
|           |            | 1       | 7         | 20.99   | 21.00   | 21.00   | 22.00   |
|           |            | 1       | 14        | 20.94   | 21.16   | 20.91   | 22.00   |
|           |            | 8       | 0         | 19.93   | 20.17   | 19.97   | 21.00   |
|           |            | 8       | 4         | 19.92   | 20.05   | 19.99   | 21.00   |
|           |            | 8       | 7         | 19.93   | 20.06   | 20.04   | 21.00   |
|           |            | 15      | 0         | 19.95   | 20.10   | 20.09   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20425   | 20525   | 20625   |         |
| 5MHz      | QPSK       | 1       | 0         | 20.95   | 21.09   | 21.04   | 22.00   |
|           |            | 1       | 13        | 20.91   | 21.16   | 20.93   | 22.00   |
|           |            | 1       | 24        | 20.85   | 21.03   | 21.09   | 22.00   |
|           |            | 12      | 0         | 20.86   | 21.01   | 20.89   | 22.00   |
|           |            | 12      | 6         | 20.99   | 21.09   | 21.00   | 22.00   |
|           |            | 12      | 13        | 21.03   | 21.10   | 20.94   | 22.00   |
|           |            | 25      | 0         | 20.97   | 21.12   | 20.98   | 22.00   |
|           | 16QAM      | 1       | 0         | 20.88   | 21.02   | 20.93   | 22.00   |
|           |            | 1       | 13        | 21.03   | 21.09   | 20.95   | 22.00   |
|           |            | 1       | 24        | 20.92   | 21.10   | 20.94   | 22.00   |
|           |            | 12      | 0         | 21.01   | 21.10   | 20.96   | 22.00   |
|           |            | 12      | 6         | 21.02   | 21.01   | 21.07   | 22.00   |
|           |            | 12      | 13        | 20.84   | 20.99   | 21.04   | 22.00   |
|           |            | 25      | 0         | 21.04   | 21.00   | 21.07   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.96   | 21.07   | 21.06   | 22.00   |
|           |            | 1       | 13        | 20.87   | 20.97   | 21.00   | 22.00   |
|           |            | 1       | 24        | 21.00   | 21.07   | 20.90   | 22.00   |
|           |            | 12      | 0         | 20.02   | 20.08   | 19.92   | 21.00   |
|           |            | 12      | 6         | 20.03   | 20.14   | 19.97   | 21.00   |
|           |            | 12      | 13        | 19.98   | 20.07   | 19.93   | 21.00   |
|           |            | 25      | 0         | 20.00   | 20.08   | 19.98   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20450   | 20525   | 20600   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.04   | 21.17   | 21.09   | 22.00   |
|           |            | 1       | 25        | 20.97   | 21.00   | 20.99   | 22.00   |
|           |            | 1       | 49        | 21.00   | 21.04   | 21.03   | 22.00   |

|  |       |    |    |       |       |       |       |
|--|-------|----|----|-------|-------|-------|-------|
|  |       | 25 | 0  | 20.98 | 21.03 | 20.99 | 22.00 |
|  |       | 25 | 13 | 20.91 | 21.01 | 20.97 | 22.00 |
|  |       | 25 | 25 | 20.95 | 21.00 | 20.94 | 22.00 |
|  |       | 50 | 0  | 20.89 | 21.08 | 20.91 | 22.00 |
|  | 16QAM | 1  | 0  | 20.97 | 21.02 | 20.90 | 22.00 |
|  |       | 1  | 25 | 20.90 | 21.14 | 21.01 | 22.00 |
|  |       | 1  | 49 | 21.02 | 21.07 | 20.97 | 22.00 |
|  |       | 25 | 0  | 21.02 | 21.12 | 21.08 | 22.00 |
|  |       | 25 | 13 | 21.00 | 21.09 | 20.97 | 22.00 |
|  |       | 25 | 25 | 20.90 | 21.01 | 21.04 | 22.00 |
|  |       | 50 | 0  | 20.94 | 20.97 | 20.94 | 22.00 |
|  | 64QAM | 1  | 0  | 20.86 | 21.09 | 20.92 | 22.00 |
|  |       | 1  | 25 | 20.99 | 21.10 | 20.99 | 22.00 |
|  |       | 1  | 49 | 20.92 | 21.16 | 21.00 | 22.00 |
|  |       | 25 | 0  | 19.95 | 20.03 | 19.97 | 21.00 |
|  |       | 25 | 13 | 19.92 | 20.02 | 20.05 | 21.00 |
|  |       | 25 | 25 | 20.03 | 19.98 | 19.90 | 21.00 |
|  |       | 50 | 0  | 19.98 | 20.04 | 19.92 | 21.00 |

| LTE Band 7 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                       | QPSK       | 1       | 0         | 23.09                | 22.88   | 22.91   | 24.00   |
|                            |            | 1       | 13        | 23.15                | 23.00   | 23.01   | 24.00   |
|                            |            | 1       | 24        | 23.05                | 22.88   | 22.86   | 24.00   |
|                            |            | 12      | 0         | 22.13                | 21.85   | 21.92   | 23.00   |
|                            |            | 12      | 6         | 22.15                | 21.94   | 21.99   | 23.00   |
|                            |            | 12      | 13        | 22.25                | 22.07   | 21.97   | 23.00   |
|                            |            | 25      | 0         | 22.15                | 21.98   | 21.97   | 23.00   |
|                            | 16QAM      | 1       | 0         | 22.23                | 21.85   | 22.21   | 23.00   |
|                            |            | 1       | 13        | 22.40                | 21.97   | 22.21   | 23.00   |
|                            |            | 1       | 24        | 22.28                | 21.92   | 22.19   | 23.00   |
|                            |            | 12      | 0         | 21.11                | 20.89   | 20.97   | 22.00   |
|                            |            | 12      | 6         | 21.18                | 20.94   | 21.02   | 22.00   |
|                            |            | 12      | 13        | 21.21                | 21.03   | 21.03   | 22.00   |
|                            |            | 25      | 0         | 21.25                | 21.02   | 20.92   | 22.00   |
|                            | 64QAM      | 1       | 0         | 20.99                | 20.87   | 20.86   | 22.00   |
|                            |            | 1       | 13        | 21.01                | 20.85   | 20.96   | 22.00   |
|                            |            | 1       | 24        | 21.04                | 20.77   | 20.68   | 22.00   |
|                            |            | 12      | 0         | 20.02                | 19.83   | 19.73   | 21.00   |
|                            |            | 12      | 6         | 20.07                | 19.94   | 19.91   | 21.00   |
|                            |            | 12      | 13        | 20.10                | 19.92   | 19.90   | 21.00   |
|                            |            | 25      | 0         | 20.14                | 19.96   | 19.78   | 21.00   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                      | QPSK       | 1       | 0         | 23.13                | 22.89   | 22.97   | 24.00   |
|                            |            | 1       | 25        | 23.13                | 22.87   | 22.97   | 24.00   |

|           |            | 1       | 49        | 23.09   | 22.89   | 22.88   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 22.21   | 21.96   | 21.95   | 23.00   |
|           |            | 25      | 13        | 22.19   | 22.05   | 21.94   | 23.00   |
|           |            | 25      | 25        | 22.15   | 21.98   | 21.97   | 23.00   |
|           |            | 50      | 0         | 22.20   | 22.03   | 21.98   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.83   | 22.16   | 22.11   | 23.00   |
|           |            | 1       | 25        | 22.66   | 22.18   | 22.07   | 23.00   |
|           |            | 1       | 49        | 22.74   | 22.17   | 21.94   | 23.00   |
|           |            | 25      | 0         | 21.29   | 20.98   | 21.09   | 22.00   |
|           |            | 25      | 13        | 21.28   | 21.04   | 21.06   | 22.00   |
|           |            | 25      | 25        | 21.20   | 21.02   | 21.10   | 22.00   |
|           |            | 50      | 0         | 21.18   | 21.02   | 20.98   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.97   | 20.86   | 20.90   | 22.00   |
|           |            | 1       | 25        | 21.10   | 20.80   | 20.81   | 22.00   |
|           |            | 1       | 49        | 21.06   | 20.75   | 20.87   | 22.00   |
|           |            | 25      | 0         | 20.13   | 19.78   | 19.85   | 21.00   |
|           |            | 25      | 13        | 20.08   | 19.89   | 19.86   | 21.00   |
|           |            | 25      | 25        | 20.00   | 19.93   | 19.91   | 21.00   |
|           |            | 50      | 0         | 20.02   | 19.97   | 19.85   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.86   | 23.07   | 22.98   | 24.00   |
|           |            | 1       | 38        | 22.85   | 22.71   | 22.77   | 24.00   |
|           |            | 1       | 74        | 22.83   | 22.67   | 22.67   | 24.00   |
|           |            | 36      | 0         | 21.97   | 22.01   | 21.84   | 23.00   |
|           |            | 36      | 18        | 22.04   | 21.78   | 21.81   | 23.00   |
|           |            | 36      | 39        | 21.96   | 21.79   | 21.68   | 23.00   |
|           |            | 75      | 0         | 21.97   | 21.81   | 21.67   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.58   | 22.00   | 21.93   | 23.00   |
|           |            | 1       | 38        | 22.52   | 21.96   | 21.93   | 23.00   |
|           |            | 1       | 74        | 22.40   | 21.97   | 21.81   | 23.00   |
|           |            | 36      | 0         | 21.01   | 20.80   | 20.77   | 22.00   |
|           |            | 36      | 18        | 21.05   | 20.78   | 20.70   | 22.00   |
|           |            | 36      | 39        | 20.99   | 20.83   | 20.72   | 22.00   |
|           |            | 75      | 0         | 21.00   | 20.88   | 20.72   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.75   | 20.93   | 20.80   | 22.00   |
|           |            | 1       | 38        | 20.69   | 20.70   | 20.71   | 22.00   |
|           |            | 1       | 74        | 20.83   | 20.66   | 20.63   | 22.00   |
|           |            | 36      | 0         | 19.90   | 19.96   | 19.84   | 21.00   |
|           |            | 36      | 18        | 20.02   | 19.60   | 19.65   | 21.00   |
|           |            | 36      | 39        | 19.94   | 19.73   | 19.58   | 21.00   |
|           |            | 75      | 0         | 19.82   | 19.68   | 19.54   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.87   | 23.17   | 22.97   | 24.00   |
|           |            | 1       | 50        | 22.78   | 22.71   | 22.69   | 24.00   |
|           |            | 1       | 99        | 22.72   | 22.66   | 22.56   | 24.00   |
|           |            | 50      | 0         | 21.94   | 21.98   | 21.81   | 23.00   |
|           |            | 50      | 25        | 21.97   | 21.80   | 21.79   | 23.00   |
|           |            | 50      | 50        | 21.85   | 21.76   | 21.76   | 23.00   |

|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  | 16QAM | 100 | 0  | 21.95 | 22.02 | 21.88 | 23.00 |
|  |       | 1   | 0  | 22.25 | 22.01 | 22.44 | 23.00 |
|  |       | 1   | 50 | 22.16 | 21.99 | 22.34 | 23.00 |
|  |       | 1   | 99 | 21.94 | 21.96 | 22.21 | 23.00 |
|  |       | 50  | 0  | 20.93 | 20.80 | 20.80 | 22.00 |
|  |       | 50  | 25 | 20.97 | 20.83 | 20.77 | 22.00 |
|  |       | 50  | 50 | 20.85 | 20.79 | 20.76 | 22.00 |
|  |       | 100 | 0  | 20.97 | 20.86 | 20.75 | 22.00 |
|  | 64QAM | 1   | 0  | 20.72 | 21.03 | 20.95 | 22.00 |
|  |       | 1   | 50 | 20.62 | 20.52 | 20.54 | 22.00 |
|  |       | 1   | 99 | 20.71 | 20.56 | 20.56 | 22.00 |
|  |       | 50  | 0  | 19.86 | 19.90 | 19.75 | 21.00 |
|  |       | 50  | 25 | 19.89 | 19.64 | 19.65 | 21.00 |
|  |       | 50  | 50 | 19.85 | 19.57 | 19.62 | 21.00 |
|  |       | 100 | 0  | 19.91 | 20.02 | 19.86 | 21.00 |

| LTE Band 7 Ant0 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                        | QPSK       | 1       | 0         | 22.14                | 22.24   | 22.38   | 23.00   |
|                             |            | 1       | 13        | 22.17                | 22.22   | 22.29   | 23.00   |
|                             |            | 1       | 24        | 22.30                | 22.32   | 22.37   | 23.00   |
|                             |            | 12      | 0         | 22.30                | 22.21   | 22.29   | 23.00   |
|                             |            | 12      | 6         | 22.18                | 22.22   | 22.35   | 23.00   |
|                             |            | 12      | 13        | 22.17                | 22.32   | 22.36   | 23.00   |
|                             |            | 25      | 0         | 22.27                | 22.32   | 22.36   | 23.00   |
|                             | 16QAM      | 1       | 0         | 22.32                | 22.37   | 22.34   | 23.00   |
|                             |            | 1       | 13        | 22.22                | 22.24   | 22.26   | 23.00   |
|                             |            | 1       | 24        | 22.26                | 22.23   | 22.25   | 23.00   |
|                             |            | 12      | 0         | 21.14                | 21.34   | 21.38   | 22.00   |
|                             |            | 12      | 6         | 21.29                | 21.27   | 21.33   | 22.00   |
|                             |            | 12      | 13        | 21.31                | 21.29   | 21.35   | 22.00   |
|                             |            | 25      | 0         | 21.14                | 21.23   | 21.34   | 22.00   |
|                             | 64QAM      | 1       | 0         | 21.17                | 21.36   | 21.33   | 22.00   |
|                             |            | 1       | 13        | 21.20                | 21.35   | 21.37   | 22.00   |
|                             |            | 1       | 24        | 21.15                | 21.30   | 21.21   | 22.00   |
|                             |            | 12      | 0         | 20.23                | 20.35   | 20.37   | 21.00   |
|                             |            | 12      | 6         | 20.30                | 20.26   | 20.34   | 21.00   |
|                             |            | 12      | 13        | 20.31                | 20.21   | 20.25   | 21.00   |
|                             |            | 25      | 0         | 20.23                | 20.32   | 20.20   | 21.00   |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                       | QPSK       | 1       | 0         | 22.23                | 22.41   | 22.26   | 23.00   |
|                             |            | 1       | 25        | 22.21                | 22.31   | 22.28   | 23.00   |
|                             |            | 1       | 49        | 22.21                | 22.24   | 22.20   | 23.00   |
|                             |            | 25      | 0         | 22.21                | 22.36   | 22.30   | 23.00   |
|                             |            | 25      | 13        | 22.26                | 22.40   | 22.37   | 23.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 22.26   | 22.23   | 22.22   | 23.00   |
|           |            | 50      | 0         | 22.26   | 22.38   | 22.25   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.24   | 22.24   | 22.19   | 23.00   |
|           |            | 1       | 25        | 22.17   | 22.35   | 22.36   | 23.00   |
|           |            | 1       | 49        | 22.16   | 22.36   | 22.32   | 23.00   |
|           |            | 25      | 0         | 21.21   | 21.38   | 21.32   | 22.00   |
|           |            | 25      | 13        | 21.14   | 21.34   | 21.21   | 22.00   |
|           |            | 25      | 25        | 21.17   | 21.36   | 21.39   | 22.00   |
|           |            | 50      | 0         | 21.23   | 21.38   | 21.25   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.17   | 21.31   | 21.27   | 22.00   |
|           |            | 1       | 25        | 21.23   | 21.35   | 21.31   | 22.00   |
|           |            | 1       | 49        | 21.25   | 21.36   | 21.22   | 22.00   |
|           |            | 25      | 0         | 20.31   | 20.36   | 20.31   | 21.00   |
|           |            | 25      | 13        | 20.29   | 20.32   | 20.34   | 21.00   |
|           |            | 25      | 25        | 20.18   | 20.27   | 20.32   | 21.00   |
|           |            | 50      | 0         | 20.19   | 20.38   | 20.37   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.31   | 22.42   | 22.25   | 23.00   |
|           |            | 1       | 38        | 22.26   | 22.38   | 22.21   | 23.00   |
|           |            | 1       | 74        | 22.17   | 22.32   | 22.35   | 23.00   |
|           |            | 36      | 0         | 22.18   | 22.27   | 22.25   | 23.00   |
|           |            | 36      | 18        | 22.14   | 22.33   | 22.34   | 23.00   |
|           |            | 36      | 39        | 22.31   | 22.29   | 22.34   | 23.00   |
|           |            | 75      | 0         | 22.22   | 22.32   | 22.20   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.24   | 22.32   | 22.26   | 23.00   |
|           |            | 1       | 38        | 22.12   | 22.31   | 22.19   | 23.00   |
|           |            | 1       | 74        | 22.29   | 22.23   | 22.31   | 23.00   |
|           |            | 36      | 0         | 21.31   | 21.38   | 21.20   | 22.00   |
|           |            | 36      | 18        | 21.25   | 21.29   | 21.37   | 22.00   |
|           |            | 36      | 39        | 21.22   | 21.33   | 21.24   | 22.00   |
|           |            | 75      | 0         | 21.28   | 21.31   | 21.19   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.24   | 21.33   | 21.20   | 22.00   |
|           |            | 1       | 38        | 21.29   | 21.29   | 21.38   | 22.00   |
|           |            | 1       | 74        | 21.17   | 21.24   | 21.35   | 22.00   |
|           |            | 36      | 0         | 20.13   | 20.33   | 20.21   | 21.00   |
|           |            | 36      | 18        | 20.21   | 20.39   | 20.34   | 21.00   |
|           |            | 36      | 39        | 20.25   | 20.29   | 20.22   | 21.00   |
|           |            | 75      | 0         | 20.17   | 20.24   | 20.25   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.32   | 22.43   | 22.39   | 23.00   |
|           |            | 1       | 50        | 22.22   | 22.21   | 22.25   | 23.00   |
|           |            | 1       | 99        | 22.18   | 22.30   | 22.29   | 23.00   |
|           |            | 50      | 0         | 22.14   | 22.30   | 22.22   | 23.00   |
|           |            | 50      | 25        | 22.12   | 22.23   | 22.16   | 23.00   |
|           |            | 50      | 50        | 22.03   | 22.28   | 22.18   | 23.00   |
|           |            | 100     | 0         | 22.14   | 22.31   | 22.23   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.29   | 22.36   | 22.23   | 23.00   |
|           |            | 1       | 50        | 22.25   | 22.30   | 22.37   | 23.00   |

|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  |       | 1   | 99 | 22.27 | 22.38 | 22.37 | 23.00 |
|  |       | 50  | 0  | 21.17 | 21.26 | 21.29 | 22.00 |
|  |       | 50  | 25 | 21.19 | 21.30 | 21.38 | 22.00 |
|  |       | 50  | 50 | 21.19 | 21.35 | 21.21 | 22.00 |
|  |       | 100 | 0  | 21.26 | 21.31 | 21.34 | 22.00 |
|  | 64QAM | 1   | 0  | 21.25 | 21.22 | 21.30 | 22.00 |
|  |       | 1   | 50 | 21.31 | 21.40 | 21.25 | 22.00 |
|  |       | 1   | 99 | 21.18 | 21.34 | 21.29 | 22.00 |
|  |       | 50  | 0  | 20.17 | 20.29 | 20.20 | 21.00 |
|  |       | 50  | 25 | 20.27 | 20.33 | 20.33 | 21.00 |
|  |       | 50  | 50 | 20.18 | 20.33 | 20.21 | 21.00 |
|  |       | 100 | 0  | 20.27 | 20.33 | 20.30 | 21.00 |

| LTE FDD Band 12 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz                          | QPSK       | 1       | 0         | 22.57                | 22.60   | 22.67   | 24.00   |
|                                 |            | 1       | 2         | 22.58                | 22.66   | 22.75   | 24.00   |
|                                 |            | 1       | 5         | 22.49                | 22.56   | 22.63   | 24.00   |
|                                 |            | 3       | 0         | 22.67                | 22.63   | 22.63   | 24.00   |
|                                 |            | 3       | 2         | 22.66                | 22.70   | 22.69   | 24.00   |
|                                 |            | 3       | 3         | 22.58                | 22.62   | 22.67   | 24.00   |
|                                 |            | 6       | 0         | 21.54                | 21.59   | 21.74   | 23.00   |
|                                 | 16QAM      | 1       | 0         | 21.68                | 21.93   | 21.79   | 23.00   |
|                                 |            | 1       | 2         | 21.80                | 22.01   | 21.88   | 23.00   |
|                                 |            | 1       | 5         | 21.63                | 21.83   | 21.71   | 23.00   |
|                                 |            | 3       | 0         | 21.83                | 21.72   | 21.84   | 23.00   |
|                                 |            | 3       | 2         | 21.90                | 21.80   | 21.87   | 23.00   |
|                                 |            | 3       | 3         | 21.78                | 21.71   | 21.76   | 23.00   |
|                                 |            | 6       | 0         | 20.77                | 20.69   | 20.74   | 22.00   |
|                                 | 64QAM      | 1       | 0         | 20.49                | 20.52   | 20.65   | 22.00   |
|                                 |            | 1       | 2         | 20.43                | 20.57   | 20.71   | 22.00   |
|                                 |            | 1       | 5         | 20.37                | 20.55   | 20.45   | 22.00   |
|                                 |            | 3       | 0         | 20.48                | 20.63   | 20.59   | 22.00   |
|                                 |            | 3       | 2         | 20.50                | 20.69   | 20.61   | 22.00   |
|                                 |            | 3       | 3         | 20.43                | 20.45   | 20.66   | 22.00   |
|                                 |            | 6       | 0         | 19.44                | 19.56   | 19.66   | 21.00   |
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz                            | QPSK       | 1       | 0         | 22.66                | 22.67   | 22.70   | 24.00   |
|                                 |            | 1       | 7         | 22.60                | 22.64   | 22.56   | 24.00   |
|                                 |            | 1       | 14        | 22.54                | 22.61   | 22.62   | 24.00   |
|                                 |            | 8       | 0         | 21.70                | 21.65   | 21.74   | 23.00   |
|                                 |            | 8       | 4         | 21.71                | 21.71   | 21.77   | 23.00   |
|                                 |            | 8       | 7         | 21.64                | 21.64   | 21.71   | 23.00   |
|                                 |            | 15      | 0         | 21.67                | 21.64   | 21.71   | 23.00   |
|                                 | 16QAM      | 1       | 0         | 22.33                | 21.79   | 21.81   | 23.00   |
|                                 |            | 1       | 7         | 22.13                | 21.68   | 21.88   | 23.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 14        | 22.16   | 21.71   | 21.61   | 23.00   |
|           |            | 8       | 0         | 20.86   | 20.66   | 20.78   | 22.00   |
|           |            | 8       | 4         | 20.90   | 20.73   | 20.84   | 22.00   |
|           |            | 8       | 7         | 20.80   | 20.66   | 20.78   | 22.00   |
|           |            | 15      | 0         | 20.76   | 20.62   | 20.77   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.52   | 20.54   | 20.68   | 22.00   |
|           |            | 1       | 7         | 20.45   | 20.62   | 20.40   | 22.00   |
|           |            | 1       | 14        | 20.38   | 20.52   | 20.44   | 22.00   |
|           |            | 8       | 0         | 19.63   | 19.51   | 19.63   | 21.00   |
|           |            | 8       | 4         | 19.70   | 19.59   | 19.74   | 21.00   |
|           |            | 8       | 7         | 19.50   | 19.60   | 19.70   | 21.00   |
|           |            | 15      | 0         | 19.51   | 19.47   | 19.52   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 23035   | 23095   | 23155   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.56   | 22.62   | 22.70   | 24.00   |
|           |            | 1       | 13        | 22.67   | 22.71   | 22.73   | 24.00   |
|           |            | 1       | 24        | 22.57   | 22.54   | 22.60   | 24.00   |
|           |            | 12      | 0         | 21.69   | 21.67   | 21.78   | 23.00   |
|           |            | 12      | 6         | 21.71   | 21.65   | 21.74   | 23.00   |
|           |            | 12      | 13        | 21.65   | 21.65   | 21.78   | 23.00   |
|           |            | 25      | 0         | 21.67   | 21.65   | 21.72   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.57   | 21.91   | 21.79   | 23.00   |
|           |            | 1       | 13        | 21.71   | 21.95   | 21.87   | 23.00   |
|           |            | 1       | 24        | 21.52   | 21.84   | 21.79   | 23.00   |
|           |            | 12      | 0         | 20.73   | 20.72   | 20.73   | 22.00   |
|           |            | 12      | 6         | 20.68   | 20.68   | 20.74   | 22.00   |
|           |            | 12      | 13        | 20.69   | 20.75   | 20.73   | 22.00   |
|           |            | 25      | 0         | 20.73   | 20.61   | 20.80   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.37   | 20.44   | 20.60   | 22.00   |
|           |            | 1       | 13        | 20.58   | 20.62   | 20.67   | 22.00   |
|           |            | 1       | 24        | 20.39   | 20.45   | 20.47   | 22.00   |
|           |            | 12      | 0         | 19.60   | 19.58   | 19.74   | 21.00   |
|           |            | 12      | 6         | 19.69   | 19.63   | 19.72   | 21.00   |
|           |            | 12      | 13        | 19.46   | 19.51   | 19.74   | 21.00   |
|           |            | 25      | 0         | 19.59   | 19.53   | 19.58   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 23060   | 23095   | 23130   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.68   | 22.76   | 22.69   | 24.00   |
|           |            | 1       | 25        | 22.65   | 22.52   | 22.67   | 24.00   |
|           |            | 1       | 49        | 22.59   | 22.55   | 22.64   | 24.00   |
|           |            | 25      | 0         | 21.65   | 21.83   | 21.75   | 23.00   |
|           |            | 25      | 13        | 21.71   | 21.76   | 21.82   | 23.00   |
|           |            | 25      | 25        | 21.67   | 21.71   | 21.77   | 23.00   |
|           |            | 50      | 0         | 21.74   | 21.65   | 21.82   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.32   | 21.88   | 21.84   | 23.00   |
|           |            | 1       | 25        | 22.21   | 21.84   | 21.69   | 23.00   |
|           |            | 1       | 49        | 22.22   | 21.84   | 21.67   | 23.00   |
|           |            | 25      | 0         | 20.72   | 20.72   | 20.85   | 22.00   |
|           |            | 25      | 13        | 20.80   | 20.82   | 20.96   | 22.00   |
|           |            | 25      | 25        | 20.76   | 20.79   | 20.90   | 22.00   |
|           |            | 50      | 0         | 20.72   | 20.64   | 20.85   | 22.00   |



|  |       |    |    |       |       |       |       |
|--|-------|----|----|-------|-------|-------|-------|
|  | 64QAM | 1  | 0  | 20.49 | 20.65 | 20.52 | 22.00 |
|  |       | 1  | 25 | 20.46 | 20.47 | 20.63 | 22.00 |
|  |       | 1  | 49 | 20.43 | 20.43 | 20.51 | 22.00 |
|  |       | 25 | 0  | 19.65 | 19.64 | 19.57 | 21.00 |
|  |       | 25 | 13 | 19.68 | 19.69 | 19.73 | 21.00 |
|  |       | 25 | 25 | 19.60 | 19.70 | 19.71 | 21.00 |
|  |       | 50 | 0  | 19.61 | 19.61 | 19.66 | 21.00 |

| LTE FDD Band 12 Ant0 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz                           | QPSK       | 1       | 0         | 21.76                | 21.83   | 21.80   | 23.00   |
|                                  |            | 1       | 2         | 21.71                | 21.77   | 21.81   | 23.00   |
|                                  |            | 1       | 5         | 21.70                | 21.74   | 21.64   | 23.00   |
|                                  |            | 3       | 0         | 21.58                | 21.65   | 21.65   | 23.00   |
|                                  |            | 3       | 2         | 21.75                | 21.64   | 21.63   | 23.00   |
|                                  |            | 3       | 3         | 21.65                | 21.68   | 21.65   | 23.00   |
|                                  |            | 6       | 0         | 21.60                | 21.81   | 21.71   | 23.00   |
|                                  | 16QAM      | 1       | 0         | 21.62                | 21.75   | 21.75   | 23.00   |
|                                  |            | 1       | 2         | 21.60                | 21.73   | 21.77   | 23.00   |
|                                  |            | 1       | 5         | 21.66                | 21.74   | 21.64   | 23.00   |
|                                  |            | 3       | 0         | 21.63                | 21.81   | 21.76   | 23.00   |
|                                  |            | 3       | 2         | 21.58                | 21.70   | 21.70   | 23.00   |
|                                  |            | 3       | 3         | 21.71                | 21.74   | 21.69   | 23.00   |
|                                  |            | 6       | 0         | 20.66                | 20.76   | 20.72   | 22.00   |
|                                  | 64QAM      | 1       | 0         | 20.70                | 20.77   | 20.79   | 22.00   |
|                                  |            | 1       | 2         | 20.67                | 20.86   | 20.70   | 22.00   |
|                                  |            | 1       | 5         | 20.67                | 20.84   | 20.64   | 22.00   |
|                                  |            | 3       | 0         | 20.63                | 20.69   | 20.77   | 22.00   |
|                                  |            | 3       | 2         | 20.75                | 20.73   | 20.71   | 22.00   |
|                                  |            | 3       | 3         | 20.64                | 20.73   | 20.78   | 22.00   |
|                                  |            | 6       | 0         | 19.72                | 19.68   | 19.82   | 21.00   |
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz                             | QPSK       | 1       | 0         | 21.78                | 21.88   | 21.82   | 23.00   |
|                                  |            | 1       | 7         | 21.72                | 21.67   | 21.76   | 23.00   |
|                                  |            | 1       | 14        | 21.76                | 21.79   | 21.81   | 23.00   |
|                                  |            | 8       | 0         | 21.62                | 21.81   | 21.78   | 23.00   |
|                                  |            | 8       | 4         | 21.70                | 21.83   | 21.73   | 23.00   |
|                                  |            | 8       | 7         | 21.62                | 21.81   | 21.78   | 23.00   |
|                                  |            | 15      | 0         | 21.67                | 21.85   | 21.80   | 23.00   |
|                                  | 16QAM      | 1       | 0         | 21.61                | 21.72   | 21.77   | 23.00   |
|                                  |            | 1       | 7         | 21.59                | 21.80   | 21.69   | 23.00   |
|                                  |            | 1       | 14        | 21.74                | 21.69   | 21.73   | 23.00   |
|                                  |            | 8       | 0         | 20.62                | 20.72   | 20.69   | 22.00   |
|                                  |            | 8       | 4         | 20.61                | 20.76   | 20.68   | 22.00   |
|                                  |            | 8       | 7         | 20.66                | 20.70   | 20.64   | 22.00   |
|                                  |            | 15      | 0         | 20.77                | 20.73   | 20.78   | 22.00   |

|           |            |            |           |           |         |         |         |         |
|-----------|------------|------------|-----------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1          | 0         | 20.69     | 20.72   | 20.81   | 22.00   |         |
|           |            | 1          | 7         | 20.59     | 20.81   | 20.65   | 22.00   |         |
|           |            | 1          | 14        | 20.58     | 20.70   | 20.68   | 22.00   |         |
|           |            | 8          | 0         | 19.71     | 19.74   | 19.63   | 21.00   |         |
|           |            | 8          | 4         | 19.61     | 19.68   | 19.74   | 21.00   |         |
|           |            | 8          | 7         | 19.76     | 19.67   | 19.81   | 21.00   |         |
|           |            | 15         | 0         | 19.71     | 19.75   | 19.72   | 21.00   |         |
| Bandwidth | Modulation | RB size    | RB offset | Channel   | Channel | Channel | Tune up |         |
|           |            |            |           | 23035     | 23095   | 23155   |         |         |
| 5MHz      | QPSK       | 1          | 0         | 21.74     | 21.84   | 21.74   | 23.00   |         |
|           |            | 1          | 13        | 21.58     | 21.76   | 21.80   | 23.00   |         |
|           |            | 1          | 24        | 21.61     | 21.71   | 21.78   | 23.00   |         |
|           |            | 12         | 0         | 21.62     | 21.65   | 21.63   | 23.00   |         |
|           |            | 12         | 6         | 21.76     | 21.72   | 21.68   | 23.00   |         |
|           |            | 12         | 13        | 21.69     | 21.71   | 21.77   | 23.00   |         |
|           |            | 25         | 0         | 21.60     | 21.78   | 21.77   | 23.00   |         |
|           | 16QAM      | 1          | 0         | 21.70     | 21.79   | 21.75   | 23.00   |         |
|           |            | 1          | 13        | 21.57     | 21.76   | 21.72   | 23.00   |         |
|           |            | 1          | 24        | 21.73     | 21.67   | 21.68   | 23.00   |         |
|           |            | 12         | 0         | 20.61     | 20.78   | 20.72   | 22.00   |         |
|           |            | 12         | 6         | 20.59     | 20.79   | 20.64   | 22.00   |         |
|           |            | 12         | 13        | 20.73     | 20.80   | 20.74   | 22.00   |         |
|           |            | 25         | 0         | 20.62     | 20.70   | 20.63   | 22.00   |         |
|           | 64QAM      | 1          | 0         | 20.57     | 20.74   | 20.73   | 22.00   |         |
|           |            | 1          | 13        | 20.77     | 20.74   | 20.65   | 22.00   |         |
|           |            | 1          | 24        | 20.71     | 20.70   | 20.78   | 22.00   |         |
|           |            | 12         | 0         | 19.77     | 19.68   | 19.74   | 21.00   |         |
|           |            | 12         | 6         | 19.64     | 19.80   | 19.80   | 21.00   |         |
|           |            | 12         | 13        | 19.70     | 19.82   | 19.72   | 21.00   |         |
|           |            | 25         | 0         | 19.73     | 19.74   | 19.67   | 21.00   |         |
|           | Bandwidth  | Modulation | RB size   | RB offset | Channel | Channel | Channel | Tune up |
|           |            |            |           |           | 23060   | 23095   | 23130   |         |
|           | 10MHz      | QPSK       | 1         | 0         | 21.87   | 21.96   | 21.83   | 23.00   |
| 1         |            |            | 25        | 21.66     | 21.73   | 21.75   | 23.00   |         |
| 1         |            |            | 49        | 21.76     | 21.69   | 21.83   | 23.00   |         |
| 25        |            |            | 0         | 21.61     | 21.76   | 21.65   | 23.00   |         |
| 25        |            |            | 13        | 21.74     | 21.80   | 21.78   | 23.00   |         |
| 25        |            |            | 25        | 21.58     | 21.74   | 21.66   | 23.00   |         |
| 50        |            |            | 0         | 21.59     | 21.76   | 21.68   | 23.00   |         |
| 16QAM     |            | 1          | 0         | 21.71     | 21.73   | 21.74   | 23.00   |         |
|           |            | 1          | 25        | 21.73     | 21.68   | 21.65   | 23.00   |         |
|           |            | 1          | 49        | 21.69     | 21.77   | 21.71   | 23.00   |         |
|           |            | 25         | 0         | 20.72     | 20.73   | 20.70   | 22.00   |         |
|           |            | 25         | 13        | 20.62     | 20.67   | 20.70   | 22.00   |         |
|           |            | 25         | 25        | 20.58     | 20.82   | 20.82   | 22.00   |         |
|           |            | 50         | 0         | 20.62     | 20.77   | 20.78   | 22.00   |         |
| 64QAM     |            | 1          | 0         | 20.67     | 20.84   | 20.78   | 22.00   |         |
|           |            | 1          | 25        | 20.63     | 20.74   | 20.63   | 22.00   |         |
|           |            | 1          | 49        | 20.71     | 20.72   | 20.67   | 22.00   |         |
|           |            | 25         | 0         | 19.67     | 19.84   | 19.66   | 21.00   |         |
|           |            | 25         | 13        | 19.69     | 19.68   | 19.64   | 21.00   |         |

|  |  |    |    |       |       |       |       |
|--|--|----|----|-------|-------|-------|-------|
|  |  | 25 | 25 | 19.63 | 19.80 | 19.67 | 21.00 |
|  |  | 50 | 0  | 19.71 | 19.77 | 19.75 | 21.00 |

| LTE FDD Band 13 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |            |         |           | 23205                | 23230   | 23255   |         |
| 5MHz                            | QPSK       | 1       | 0         | 22.38                | 22.34   | 22.38   | 24.00   |
|                                 |            | 1       | 13        | 22.42                | 22.43   | 22.41   | 24.00   |
|                                 |            | 1       | 24        | 22.28                | 22.28   | 22.33   | 24.00   |
|                                 |            | 12      | 0         | 21.32                | 21.37   | 21.30   | 23.00   |
|                                 |            | 12      | 6         | 21.43                | 21.38   | 21.35   | 23.00   |
|                                 |            | 12      | 13        | 21.43                | 21.39   | 21.34   | 23.00   |
|                                 |            | 25      | 0         | 21.40                | 21.33   | 21.39   | 23.00   |
|                                 | 16QAM      | 1       | 0         | 21.31                | 21.30   | 21.63   | 23.00   |
|                                 |            | 1       | 13        | 21.35                | 21.49   | 21.62   | 23.00   |
|                                 |            | 1       | 24        | 21.27                | 21.20   | 21.52   | 23.00   |
|                                 |            | 12      | 0         | 20.35                | 20.34   | 20.35   | 22.00   |
|                                 |            | 12      | 6         | 20.43                | 20.40   | 20.36   | 22.00   |
|                                 |            | 12      | 13        | 20.41                | 20.41   | 20.39   | 22.00   |
|                                 |            | 25      | 0         | 20.48                | 20.37   | 20.40   | 22.00   |
|                                 | 64QAM      | 1       | 0         | 20.21                | 20.33   | 20.21   | 22.00   |
|                                 |            | 1       | 13        | 20.24                | 20.24   | 20.36   | 22.00   |
|                                 |            | 1       | 24        | 20.19                | 20.18   | 20.15   | 22.00   |
|                                 |            | 12      | 0         | 19.30                | 19.24   | 19.24   | 21.00   |
|                                 |            | 12      | 6         | 19.39                | 19.30   | 19.18   | 21.00   |
|                                 |            | 12      | 13        | 19.37                | 19.22   | 19.15   | 21.00   |
|                                 |            | 25      | 0         | 19.37                | 19.24   | 19.35   | 21.00   |
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                           | QPSK       | 1       | 0         | /                    | 23230   | /       | 24.00   |
|                                 |            | 1       | 25        | /                    | 22.44   | /       | 24.00   |
|                                 |            | 1       | 49        | /                    | 22.4    | /       | 24.00   |
|                                 |            | 25      | 0         | /                    | 22.26   | /       | 24.00   |
|                                 |            | 25      | 13        | /                    | 21.48   | /       | 23.00   |
|                                 |            | 25      | 25        | /                    | 21.4    | /       | 23.00   |
|                                 |            | 50      | 0         | /                    | 21.38   | /       | 23.00   |
|                                 | 16QAM      | 1       | 0         | /                    | 21.36   | /       | 23.00   |
|                                 |            | 1       | 0         | /                    | 22.01   | /       | 23.00   |
|                                 |            | 1       | 25        | /                    | 22      | /       | 23.00   |
|                                 |            | 1       | 49        | /                    | 21.92   | /       | 23.00   |
|                                 |            | 25      | 0         | /                    | 20.44   | /       | 22.00   |
|                                 |            | 25      | 13        | /                    | 20.46   | /       | 22.00   |
|                                 |            | 25      | 25        | /                    | 20.36   | /       | 22.00   |
|                                 | 64QAM      | 50      | 0         | /                    | 20.38   | /       | 22.00   |
|                                 |            | 1       | 0         | /                    | 20.42   | /       | 22.00   |
|                                 |            | 1       | 25        | /                    | 20.37   | /       | 22.00   |
|                                 |            | 1       | 49        | /                    | 20.16   | /       | 22.00   |
|                                 |            | 25      | 0         | /                    | 19.34   | /       | 21.00   |
|                                 |            | 25      | 13        | /                    | 19.20   | /       | 21.00   |

|  |  |    |    |   |       |   |       |
|--|--|----|----|---|-------|---|-------|
|  |  | 25 | 25 | / | 19.37 | / | 21.00 |
|  |  | 50 | 0  | / | 19.20 | / | 21.00 |

| LTE FDD Band 14 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |            |         |           | 23305                | 23330   | 23355   |         |
| 5MHz                            | QPSK       | 1       | 0         | 22.38                | 22.34   | 22.36   | 23.50   |
|                                 |            | 1       | 13        | 22.33                | 22.31   | 22.29   | 23.50   |
|                                 |            | 1       | 24        | 22.22                | 22.14   | 22.13   | 23.50   |
|                                 |            | 12      | 0         | 21.34                | 21.30   | 21.26   | 22.50   |
|                                 |            | 12      | 6         | 21.41                | 21.31   | 21.27   | 22.50   |
|                                 |            | 12      | 13        | 21.31                | 21.26   | 21.23   | 22.50   |
|                                 |            | 25      | 0         | 21.37                | 21.26   | 21.24   | 22.50   |
|                                 | 16QAM      | 1       | 0         | 21.33                | 21.30   | 21.58   | 22.50   |
|                                 |            | 1       | 13        | 21.31                | 21.26   | 21.53   | 22.50   |
|                                 |            | 1       | 24        | 21.20                | 21.16   | 21.37   | 22.50   |
|                                 |            | 12      | 0         | 20.35                | 20.34   | 20.37   | 21.50   |
|                                 |            | 12      | 6         | 20.41                | 20.33   | 20.29   | 21.50   |
|                                 |            | 12      | 13        | 20.32                | 20.28   | 20.26   | 21.50   |
|                                 |            | 25      | 0         | 20.44                | 20.31   | 20.23   | 21.50   |
|                                 | 64QAM      | 1       | 0         | 20.37                | 20.15   | 20.19   | 21.50   |
|                                 |            | 1       | 13        | 20.30                | 20.13   | 20.23   | 21.50   |
|                                 |            | 1       | 24        | 20.03                | 20.08   | 20.09   | 21.50   |
|                                 |            | 12      | 0         | 19.26                | 19.10   | 19.14   | 20.50   |
|                                 |            | 12      | 6         | 19.24                | 19.30   | 19.11   | 20.50   |
|                                 |            | 12      | 13        | 19.29                | 19.22   | 19.07   | 20.50   |
|                                 |            | 25      | 0         | 19.29                | 19.15   | 19.17   | 20.50   |
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                           | QPSK       | 1       | 0         | /                    | 23330   | /       | 23.50   |
|                                 |            | 1       | 25        | /                    | 22.45   | /       | 23.50   |
|                                 |            | 1       | 49        | /                    | 22.27   | /       | 23.50   |
|                                 |            | 25      | 0         | /                    | 22.16   | /       | 23.50   |
|                                 |            | 25      | 13        | /                    | 21.43   | /       | 22.50   |
|                                 |            | 25      | 25        | /                    | 21.34   | /       | 22.50   |
|                                 |            | 50      | 0         | /                    | 21.30   | /       | 22.50   |
|                                 | 16QAM      | 1       | 0         | /                    | 22.15   | /       | 22.50   |
|                                 |            | 1       | 25        | /                    | 21.93   | /       | 22.50   |
|                                 |            | 1       | 49        | /                    | 21.88   | /       | 22.50   |
|                                 |            | 25      | 0         | /                    | 20.40   | /       | 21.50   |
|                                 |            | 25      | 13        | /                    | 20.39   | /       | 21.50   |
|                                 |            | 25      | 25        | /                    | 20.36   | /       | 21.50   |
|                                 |            | 50      | 0         | /                    | 20.28   | /       | 21.50   |
|                                 | 64QAM      | 1       | 0         | /                    | 20.38   | /       | 21.50   |
|                                 |            | 1       | 25        | /                    | 20.18   | /       | 21.50   |
|                                 |            | 1       | 49        | /                    | 20.06   | /       | 21.50   |
|                                 |            | 25      | 0         | /                    | 19.36   | /       | 20.50   |
|                                 |            | 25      | 13        | /                    | 19.17   | /       | 20.50   |

|  |  |    |    |   |       |   |       |
|--|--|----|----|---|-------|---|-------|
|  |  | 25 | 25 | / | 19.20 | / | 20.50 |
|  |  | 50 | 0  | / | 19.29 | / | 20.50 |

| LTE FDD Band 17 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |            |         |           | 23755                | 23790   | 23825   |         |
| 5MHz                            | QPSK       | 1       | 0         | 22.69                | 22.71   | 22.77   | 23.50   |
|                                 |            | 1       | 13        | 22.62                | 22.64   | 22.68   | 23.50   |
|                                 |            | 1       | 24        | 22.48                | 22.52   | 22.58   | 23.50   |
|                                 |            | 12      | 0         | 21.66                | 21.73   | 21.75   | 22.50   |
|                                 |            | 12      | 6         | 21.67                | 21.67   | 21.69   | 22.50   |
|                                 |            | 12      | 13        | 21.61                | 21.66   | 21.69   | 22.50   |
|                                 |            | 25      | 0         | 21.66                | 21.64   | 21.65   | 22.50   |
|                                 | 16QAM      | 1       | 0         | 21.58                | 22.00   | 21.80   | 22.50   |
|                                 |            | 1       | 13        | 21.75                | 21.92   | 21.81   | 22.50   |
|                                 |            | 1       | 24        | 21.39                | 21.83   | 21.68   | 22.50   |
|                                 |            | 12      | 0         | 20.70                | 20.74   | 20.74   | 21.50   |
|                                 |            | 12      | 6         | 20.72                | 20.74   | 20.67   | 21.50   |
|                                 |            | 12      | 13        | 20.62                | 20.71   | 20.65   | 21.50   |
|                                 |            | 25      | 0         | 20.72                | 20.63   | 20.72   | 21.50   |
|                                 | 64QAM      | 1       | 0         | 20.54                | 20.60   | 20.63   | 21.50   |
|                                 |            | 1       | 13        | 20.45                | 20.57   | 20.57   | 21.50   |
|                                 |            | 1       | 24        | 20.36                | 20.48   | 20.53   | 21.50   |
|                                 |            | 12      | 0         | 19.48                | 19.66   | 19.59   | 20.50   |
|                                 |            | 12      | 6         | 19.56                | 19.48   | 19.68   | 20.50   |
|                                 |            | 12      | 13        | 19.51                | 19.65   | 19.65   | 20.50   |
|                                 |            | 25      | 0         | 19.50                | 19.63   | 19.62   | 20.50   |
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                           | QPSK       | 1       | 0         | 22.56                | 22.54   | 22.62   | 23.50   |
|                                 |            | 1       | 25        | 22.64                | 22.58   | 22.61   | 23.50   |
|                                 |            | 1       | 49        | 22.50                | 22.50   | 22.52   | 23.50   |
|                                 |            | 25      | 0         | 21.66                | 21.68   | 21.66   | 22.50   |
|                                 |            | 25      | 13        | 21.77                | 21.65   | 21.69   | 22.50   |
|                                 |            | 25      | 25        | 21.63                | 21.67   | 21.67   | 22.50   |
|                                 |            | 50      | 0         | 21.64                | 21.64   | 21.63   | 22.50   |
|                                 | 16QAM      | 1       | 0         | 22.26                | 21.80   | 21.69   | 22.50   |
|                                 |            | 1       | 25        | 22.23                | 21.84   | 21.65   | 22.50   |
|                                 |            | 1       | 49        | 22.17                | 21.75   | 21.59   | 22.50   |
|                                 |            | 25      | 0         | 20.70                | 20.74   | 20.79   | 21.50   |
|                                 |            | 25      | 13        | 20.79                | 20.66   | 20.78   | 21.50   |
|                                 |            | 25      | 25        | 20.69                | 20.62   | 20.79   | 21.50   |
|                                 |            | 50      | 0         | 20.64                | 20.65   | 20.67   | 21.50   |
|                                 | 64QAM      | 1       | 0         | 20.45                | 20.42   | 20.51   | 21.50   |
|                                 |            | 1       | 25        | 20.46                | 20.56   | 20.49   | 21.50   |
|                                 |            | 1       | 49        | 20.32                | 20.30   | 20.37   | 21.50   |
|                                 |            | 25      | 0         | 19.49                | 19.50   | 19.51   | 20.50   |
|                                 |            | 25      | 13        | 19.60                | 19.47   | 19.60   | 20.50   |

|  |  |    |    |       |       |       |       |
|--|--|----|----|-------|-------|-------|-------|
|  |  | 25 | 25 | 19.48 | 19.52 | 19.52 | 20.50 |
|  |  | 50 | 0  | 19.58 | 19.63 | 19.46 | 20.50 |

| LTE FDD Band 17 Ant0 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |            |         |           | 23755                | 23790   | 23825   |         |
| 5MHz                             | QPSK       | 1       | 0         | 21.57                | 21.74   | 21.70   | 23.00   |
|                                  |            | 1       | 13        | 21.54                | 21.72   | 21.58   | 23.00   |
|                                  |            | 1       | 24        | 21.54                | 21.72   | 21.64   | 23.00   |
|                                  |            | 12      | 0         | 21.51                | 21.66   | 21.59   | 23.00   |
|                                  |            | 12      | 6         | 21.70                | 21.72   | 21.72   | 23.00   |
|                                  |            | 12      | 13        | 21.59                | 21.73   | 21.73   | 23.00   |
|                                  |            | 25      | 0         | 21.60                | 21.69   | 21.66   | 23.00   |
|                                  | 16QAM      | 1       | 0         | 21.63                | 21.64   | 21.60   | 23.00   |
|                                  |            | 1       | 13        | 21.60                | 21.59   | 21.61   | 23.00   |
|                                  |            | 1       | 24        | 21.68                | 21.69   | 21.59   | 23.00   |
|                                  |            | 12      | 0         | 20.61                | 20.71   | 20.57   | 22.00   |
|                                  |            | 12      | 6         | 20.55                | 20.60   | 20.70   | 22.00   |
|                                  |            | 12      | 13        | 20.56                | 20.74   | 20.57   | 22.00   |
|                                  |            | 25      | 0         | 20.62                | 20.60   | 20.62   | 22.00   |
|                                  | 64QAM      | 1       | 0         | 20.65                | 20.69   | 20.60   | 22.00   |
|                                  |            | 1       | 13        | 20.59                | 20.74   | 20.58   | 22.00   |
|                                  |            | 1       | 24        | 20.57                | 20.77   | 20.67   | 22.00   |
|                                  |            | 12      | 0         | 19.68                | 19.76   | 19.70   | 21.00   |
|                                  |            | 12      | 6         | 19.57                | 19.59   | 19.55   | 21.00   |
|                                  |            | 12      | 13        | 19.52                | 19.74   | 19.58   | 21.00   |
|                                  |            | 25      | 0         | 19.51                | 19.69   | 19.71   | 21.00   |
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                            | QPSK       | 1       | 0         | 21.70                | 21.78   | 21.74   | 23.00   |
|                                  |            | 1       | 25        | 21.62                | 21.59   | 21.74   | 23.00   |
|                                  |            | 1       | 49        | 21.66                | 21.60   | 21.58   | 23.00   |
|                                  |            | 25      | 0         | 21.54                | 21.77   | 21.55   | 23.00   |
|                                  |            | 25      | 13        | 21.67                | 21.75   | 21.66   | 23.00   |
|                                  |            | 25      | 25        | 21.68                | 21.71   | 21.66   | 23.00   |
|                                  |            | 50      | 0         | 21.61                | 21.66   | 21.65   | 23.00   |
|                                  | 16QAM      | 1       | 0         | 21.66                | 21.70   | 21.68   | 23.00   |
|                                  |            | 1       | 25        | 21.53                | 21.61   | 21.60   | 23.00   |
|                                  |            | 1       | 49        | 21.59                | 21.65   | 21.64   | 23.00   |
|                                  |            | 25      | 0         | 20.68                | 20.60   | 20.66   | 22.00   |
|                                  |            | 25      | 13        | 20.58                | 20.59   | 20.71   | 22.00   |
|                                  |            | 25      | 25        | 20.67                | 20.78   | 20.58   | 22.00   |
|                                  |            | 50      | 0         | 20.65                | 20.74   | 20.62   | 22.00   |
|                                  | 64QAM      | 1       | 0         | 20.65                | 20.61   | 20.60   | 22.00   |
|                                  |            | 1       | 25        | 20.61                | 20.60   | 20.71   | 22.00   |
|                                  |            | 1       | 49        | 20.68                | 20.60   | 20.72   | 22.00   |
|                                  |            | 25      | 0         | 19.63                | 19.64   | 19.67   | 21.00   |
|                                  |            | 25      | 13        | 19.66                | 19.67   | 19.74   | 21.00   |

|  |  |    |    |       |       |       |       |
|--|--|----|----|-------|-------|-------|-------|
|  |  | 25 | 25 | 19.59 | 19.76 | 19.70 | 21.00 |
|  |  | 50 | 0  | 19.65 | 19.63 | 19.55 | 21.00 |

| LTE Band 25 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 26047                | 26365   | 26683   |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 22.95                | 23.15   | 22.94   | 24.00   |
|                             |            | 1       | 2         | 23.02                | 23.01   | 22.97   | 24.00   |
|                             |            | 1       | 5         | 22.94                | 22.97   | 22.94   | 24.00   |
|                             |            | 3       | 0         | 22.86                | 22.98   | 23.00   | 24.00   |
|                             |            | 3       | 2         | 22.94                | 23.14   | 23.03   | 24.00   |
|                             |            | 3       | 3         | 22.93                | 23.00   | 22.97   | 24.00   |
|                             |            | 6       | 0         | 21.97                | 22.04   | 22.01   | 23.00   |
|                             | 16QAM      | 1       | 0         | 22.04                | 22.08   | 22.23   | 23.00   |
|                             |            | 1       | 2         | 21.93                | 22.22   | 22.31   | 23.00   |
|                             |            | 1       | 5         | 22.10                | 22.10   | 22.23   | 23.00   |
|                             |            | 3       | 0         | 22.07                | 22.23   | 22.04   | 23.00   |
|                             |            | 3       | 2         | 22.16                | 22.30   | 22.14   | 23.00   |
|                             |            | 3       | 3         | 22.06                | 22.29   | 22.02   | 23.00   |
|                             |            | 6       | 0         | 20.98                | 21.09   | 21.12   | 22.00   |
|                             | 64QAM      | 1       | 0         | 20.94                | 20.96   | 20.86   | 22.00   |
|                             |            | 1       | 2         | 20.95                | 21.01   | 20.81   | 22.00   |
|                             |            | 1       | 5         | 20.84                | 20.95   | 20.84   | 22.00   |
|                             |            | 3       | 0         | 20.66                | 20.97   | 20.89   | 22.00   |
|                             |            | 3       | 2         | 20.92                | 21.12   | 20.85   | 22.00   |
|                             |            | 3       | 3         | 20.85                | 20.98   | 20.83   | 22.00   |
|                             |            | 6       | 0         | 19.85                | 19.88   | 19.98   | 21.00   |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz                        | QPSK       | 1       | 0         | 23.04                | 23.15   | 23.12   | 24.00   |
|                             |            | 1       | 7         | 22.91                | 23.10   | 23.01   | 24.00   |
|                             |            | 1       | 14        | 23.00                | 23.13   | 23.05   | 24.00   |
|                             |            | 8       | 0         | 22.04                | 22.09   | 22.12   | 23.00   |
|                             |            | 8       | 4         | 22.07                | 22.21   | 22.19   | 23.00   |
|                             |            | 8       | 7         | 22.05                | 22.10   | 22.13   | 23.00   |
|                             |            | 15      | 0         | 22.04                | 22.18   | 22.10   | 23.00   |
|                             | 16QAM      | 1       | 0         | 22.64                | 22.38   | 22.16   | 23.00   |
|                             |            | 1       | 7         | 22.42                | 22.23   | 22.22   | 23.00   |
|                             |            | 1       | 14        | 22.55                | 22.21   | 22.13   | 23.00   |
|                             |            | 8       | 0         | 21.22                | 21.09   | 21.20   | 22.00   |
|                             |            | 8       | 4         | 21.27                | 21.14   | 21.14   | 22.00   |
|                             |            | 8       | 7         | 21.19                | 21.14   | 21.13   | 22.00   |
|                             |            | 15      | 0         | 21.10                | 21.10   | 21.11   | 22.00   |
|                             | 64QAM      | 1       | 0         | 20.98                | 20.98   | 21.05   | 22.00   |
|                             |            | 1       | 7         | 20.84                | 20.91   | 21.01   | 22.00   |
|                             |            | 1       | 14        | 20.91                | 21.03   | 21.01   | 22.00   |
|                             |            | 8       | 0         | 19.94                | 19.99   | 19.94   | 21.00   |
|                             |            | 8       | 4         | 19.97                | 20.15   | 20.00   | 21.00   |

|           |            | 8       | 7         | 19.91   | 20.09   | 20.03   | 21.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 15      | 0         | 19.96   | 20.11   | 19.92   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26065   | 26365   | 26665   |         |
| 5MHz      | QPSK       | 1       | 0         | 22.98   | 23.08   | 23.09   | 24.00   |
|           |            | 1       | 13        | 23.01   | 23.17   | 23.06   | 24.00   |
|           |            | 1       | 24        | 22.97   | 23.11   | 22.97   | 24.00   |
|           |            | 12      | 0         | 22.07   | 21.99   | 22.16   | 23.00   |
|           |            | 12      | 6         | 22.02   | 22.04   | 22.16   | 23.00   |
|           |            | 12      | 13        | 22.02   | 22.11   | 22.16   | 23.00   |
|           |            | 25      | 0         | 22.05   | 22.11   | 22.16   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.98   | 22.33   | 22.22   | 23.00   |
|           |            | 1       | 13        | 21.98   | 22.39   | 22.28   | 23.00   |
|           |            | 1       | 24        | 21.94   | 22.30   | 22.14   | 23.00   |
|           |            | 12      | 0         | 21.05   | 21.14   | 21.11   | 22.00   |
|           |            | 12      | 6         | 21.03   | 21.07   | 21.11   | 22.00   |
|           |            | 12      | 13        | 21.03   | 21.20   | 21.06   | 22.00   |
|           |            | 25      | 0         | 21.05   | 21.14   | 21.22   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.97   | 20.97   | 21.08   | 22.00   |
|           |            | 1       | 13        | 20.87   | 21.14   | 20.95   | 22.00   |
|           |            | 1       | 24        | 20.85   | 21.09   | 20.79   | 22.00   |
|           |            | 12      | 0         | 20.03   | 19.95   | 20.00   | 21.00   |
|           |            | 12      | 6         | 19.91   | 19.90   | 20.13   | 21.00   |
|           |            | 12      | 13        | 19.89   | 20.06   | 20.02   | 21.00   |
|           |            | 25      | 0         | 19.96   | 20.06   | 20.14   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26090   | 26365   | 26640   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.95   | 23.05   | 23.18   | 24.00   |
|           |            | 1       | 25        | 23.03   | 22.96   | 23.06   | 24.00   |
|           |            | 1       | 49        | 22.87   | 23.01   | 22.99   | 24.00   |
|           |            | 25      | 0         | 22.06   | 22.10   | 22.08   | 23.00   |
|           |            | 25      | 13        | 22.08   | 22.22   | 22.06   | 23.00   |
|           |            | 25      | 25        | 22.05   | 22.15   | 22.10   | 23.00   |
|           |            | 50      | 0         | 22.05   | 22.17   | 22.11   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.64   | 22.26   | 22.07   | 23.00   |
|           |            | 1       | 25        | 22.59   | 22.27   | 22.08   | 23.00   |
|           |            | 1       | 49        | 22.63   | 22.28   | 22.00   | 23.00   |
|           |            | 25      | 0         | 21.10   | 21.09   | 21.18   | 22.00   |
|           |            | 25      | 13        | 21.10   | 21.15   | 21.14   | 22.00   |
|           |            | 25      | 25        | 21.05   | 21.14   | 21.20   | 22.00   |
|           |            | 50      | 0         | 21.08   | 21.16   | 21.12   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.86   | 20.99   | 21.07   | 22.00   |
|           |            | 1       | 25        | 20.90   | 20.84   | 21.02   | 22.00   |
|           |            | 1       | 49        | 20.68   | 20.92   | 20.98   | 22.00   |
|           |            | 25      | 0         | 19.90   | 20.04   | 19.90   | 21.00   |
|           |            | 25      | 13        | 20.06   | 20.21   | 20.03   | 21.00   |
|           |            | 25      | 25        | 20.02   | 20.06   | 19.92   | 21.00   |
|           |            | 50      | 0         | 19.87   | 20.14   | 20.09   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26115   | 26365   | 26615   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.82   | 23.11   | 22.97   | 24.00   |



|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 22.72   | 22.89   | 22.87   | 24.00   |
|           |            | 1       | 74        | 22.84   | 22.88   | 22.82   | 24.00   |
|           |            | 36      | 0         | 21.87   | 21.95   | 21.94   | 23.00   |
|           |            | 36      | 18        | 21.95   | 22.00   | 21.96   | 23.00   |
|           |            | 36      | 39        | 21.92   | 22.01   | 21.99   | 23.00   |
|           |            | 75      | 0         | 21.92   | 22.03   | 21.98   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.52   | 22.26   | 22.41   | 23.00   |
|           |            | 1       | 38        | 22.39   | 22.16   | 22.36   | 23.00   |
|           |            | 1       | 74        | 22.42   | 22.11   | 22.24   | 23.00   |
|           |            | 36      | 0         | 20.94   | 20.98   | 20.96   | 22.00   |
|           |            | 36      | 18        | 20.93   | 20.98   | 20.94   | 22.00   |
|           |            | 36      | 39        | 20.96   | 21.01   | 20.97   | 22.00   |
|           |            | 75      | 0         | 21.00   | 21.04   | 20.98   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.63   | 20.88   | 20.81   | 22.00   |
|           |            | 1       | 38        | 20.70   | 20.80   | 20.79   | 22.00   |
|           |            | 1       | 74        | 20.76   | 20.70   | 20.69   | 22.00   |
|           |            | 36      | 0         | 19.76   | 19.88   | 19.82   | 21.00   |
|           |            | 36      | 18        | 19.92   | 19.89   | 19.90   | 21.00   |
|           |            | 36      | 39        | 19.79   | 20.00   | 19.80   | 21.00   |
|           |            | 75      | 0         | 19.75   | 19.90   | 19.88   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26140   | 26365   | 26590   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.82   | 23.19   | 22.95   | 24.00   |
|           |            | 1       | 50        | 22.76   | 22.92   | 22.88   | 24.00   |
|           |            | 1       | 99        | 22.81   | 22.94   | 22.78   | 24.00   |
|           |            | 50      | 0         | 21.99   | 22.06   | 22.03   | 23.00   |
|           |            | 50      | 25        | 21.95   | 22.03   | 22.01   | 23.00   |
|           |            | 50      | 50        | 21.93   | 22.03   | 22.00   | 23.00   |
|           |            | 100     | 0         | 21.97   | 22.04   | 22.00   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.18   | 22.18   | 22.57   | 23.00   |
|           |            | 1       | 50        | 22.06   | 22.13   | 22.56   | 23.00   |
|           |            | 1       | 99        | 22.16   | 22.21   | 22.46   | 23.00   |
|           |            | 50      | 0         | 20.85   | 20.97   | 21.04   | 22.00   |
|           |            | 50      | 25        | 20.95   | 21.06   | 21.06   | 22.00   |
|           |            | 50      | 50        | 20.89   | 21.02   | 21.00   | 22.00   |
|           |            | 100     | 0         | 20.96   | 21.03   | 20.99   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.77   | 20.78   | 20.87   | 22.00   |
|           |            | 1       | 50        | 20.69   | 20.83   | 20.80   | 22.00   |
|           |            | 1       | 99        | 20.65   | 20.78   | 20.67   | 22.00   |
|           |            | 50      | 0         | 19.73   | 19.81   | 19.91   | 21.00   |
|           |            | 50      | 25        | 19.80   | 19.98   | 20.02   | 21.00   |
|           |            | 50      | 50        | 19.87   | 19.88   | 19.91   | 21.00   |
|           |            | 100     | 0         | 19.79   | 19.95   | 19.98   | 21.00   |

| LTE Band 25 Ant0 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 26047                | 26365   | 26683   |         |
| 1.4MHz                       | QPSK       | 1       | 0         | 15.25                | 15.53   | 15.38   | 16.50   |

|  |       |   |   |       |       |       |       |
|--|-------|---|---|-------|-------|-------|-------|
|  |       | 1 | 2 | 15.40 | 15.49 | 15.34 | 16.50 |
|  |       | 1 | 5 | 15.28 | 15.52 | 15.36 | 16.50 |
|  |       | 3 | 0 | 15.30 | 15.41 | 15.46 | 16.50 |
|  |       | 3 | 2 | 15.28 | 15.44 | 15.39 | 16.50 |
|  |       | 3 | 3 | 15.39 | 15.40 | 15.41 | 16.50 |
|  |       | 6 | 0 | 15.31 | 15.51 | 15.42 | 16.50 |
|  | 16QAM | 1 | 0 | 15.33 | 15.51 | 15.35 | 16.50 |
|  |       | 1 | 2 | 15.23 | 15.50 | 15.49 | 16.50 |
|  |       | 1 | 5 | 15.38 | 15.44 | 15.50 | 16.50 |
|  |       | 3 | 0 | 15.29 | 15.50 | 15.48 | 16.50 |
|  |       | 3 | 2 | 15.28 | 15.52 | 15.34 | 16.50 |
|  |       | 3 | 3 | 15.25 | 15.46 | 15.32 | 16.50 |
|  | 64QAM | 6 | 0 | 15.38 | 15.40 | 15.44 | 16.50 |
|  |       | 1 | 0 | 15.23 | 15.40 | 15.49 | 16.50 |
|  |       | 1 | 2 | 15.37 | 15.40 | 15.40 | 16.50 |
|  |       | 1 | 5 | 15.37 | 15.38 | 15.41 | 16.50 |
|  |       | 3 | 0 | 15.30 | 15.52 | 15.48 | 16.50 |
|  |       | 3 | 2 | 15.26 | 15.37 | 15.31 | 16.50 |
|  |       | 3 | 3 | 15.36 | 15.44 | 15.31 | 16.50 |
|  |       | 6 | 0 | 15.31 | 15.47 | 15.34 | 16.50 |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 26055   | 26365   | 26675   |         |
| 3MHz      | QPSK       | 1       | 0         | 15.35   | 15.46   | 15.43   | 16.50   |
|           |            | 1       | 7         | 15.22   | 15.56   | 15.45   | 16.50   |
|           |            | 1       | 14        | 15.23   | 15.51   | 15.36   | 16.50   |
|           |            | 8       | 0         | 15.27   | 15.52   | 15.44   | 16.50   |
|           |            | 8       | 4         | 15.35   | 15.43   | 15.38   | 16.50   |
|           |            | 8       | 7         | 15.39   | 15.47   | 15.32   | 16.50   |
|           |            | 15      | 0         | 15.37   | 15.49   | 15.44   | 16.50   |
|           | 16QAM      | 1       | 0         | 15.41   | 15.52   | 15.31   | 16.50   |
|           |            | 1       | 7         | 15.25   | 15.52   | 15.38   | 16.50   |
|           |            | 1       | 14        | 15.42   | 15.51   | 15.35   | 16.50   |
|           |            | 8       | 0         | 15.40   | 15.39   | 15.41   | 16.50   |
|           |            | 8       | 4         | 15.36   | 15.44   | 15.36   | 16.50   |
|           |            | 8       | 7         | 15.41   | 15.44   | 15.47   | 16.50   |
|           |            | 15      | 0         | 15.26   | 15.42   | 15.42   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.37   | 15.55   | 15.34   | 16.50   |
|           |            | 1       | 7         | 15.22   | 15.52   | 15.42   | 16.50   |
|           |            | 1       | 14        | 15.22   | 15.47   | 15.44   | 16.50   |
|           |            | 8       | 0         | 15.34   | 15.46   | 15.33   | 16.50   |
|           |            | 8       | 4         | 15.33   | 15.54   | 15.38   | 16.50   |
|           |            | 8       | 7         | 15.42   | 15.46   | 15.38   | 16.50   |
|           |            | 15      | 0         | 15.36   | 15.50   | 15.37   | 16.50   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 26065   | 26365   | 26665   |         |
| 5MHz      | QPSK       | 1       | 0         | 15.28   | 15.53   | 15.31   | 16.50   |
|           |            | 1       | 13        | 15.30   | 15.41   | 15.45   | 16.50   |
|           |            | 1       | 24        | 15.36   | 15.47   | 15.41   | 16.50   |
|           |            | 12      | 0         | 15.28   | 15.51   | 15.30   | 16.50   |
|           |            | 12      | 6         | 15.42   | 15.49   | 15.31   | 16.50   |
|           |            | 12      | 13        | 15.37   | 15.45   | 15.41   | 16.50   |

|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  | 16QAM             | 25             | 0                | 15.39          | 15.41          | 15.49          | 16.50          |
|                  |                   | 1              | 0                | 15.34          | 15.38          | 15.46          | 16.50          |
|                  |                   | 1              | 13               | 15.37          | 15.46          | 15.47          | 16.50          |
|                  |                   | 1              | 24               | 15.37          | 15.41          | 15.35          | 16.50          |
|                  |                   | 12             | 0                | 15.22          | 15.41          | 15.36          | 16.50          |
|                  |                   | 12             | 6                | 15.31          | 15.51          | 15.38          | 16.50          |
|                  |                   | 12             | 13               | 15.33          | 15.37          | 15.32          | 16.50          |
|                  | 64QAM             | 25             | 0                | 15.30          | 15.43          | 15.31          | 16.50          |
|                  |                   | 1              | 0                | 15.22          | 15.52          | 15.32          | 16.50          |
|                  |                   | 1              | 13               | 15.27          | 15.50          | 15.48          | 16.50          |
|                  |                   | 1              | 24               | 15.40          | 15.42          | 15.40          | 16.50          |
|                  |                   | 12             | 0                | 15.41          | 15.39          | 15.36          | 16.50          |
|                  |                   | 12             | 6                | 15.22          | 15.50          | 15.45          | 16.50          |
|                  |                   | 12             | 13               | 15.26          | 15.44          | 15.50          | 16.50          |
|                  |                   | 25             | 0                | 15.31          | 15.49          | 15.32          | 16.50          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
| <b>10MHz</b>     | QPSK              |                |                  | 26090          | 26365          | 26640          |                |
|                  |                   | 1              | 0                | 15.36          | 15.55          | 15.37          | 16.50          |
|                  |                   | 1              | 25               | 15.33          | 15.39          | 15.47          | 16.50          |
|                  |                   | 1              | 49               | 15.33          | 15.49          | 15.45          | 16.50          |
|                  |                   | 25             | 0                | 15.41          | 15.49          | 15.35          | 16.50          |
|                  |                   | 25             | 13               | 15.37          | 15.45          | 15.33          | 16.50          |
|                  |                   | 25             | 25               | 15.42          | 15.47          | 15.48          | 16.50          |
|                  | 16QAM             | 50             | 0                | 15.27          | 15.41          | 15.31          | 16.50          |
|                  |                   | 1              | 0                | 15.31          | 15.44          | 15.50          | 16.50          |
|                  |                   | 1              | 25               | 15.24          | 15.43          | 15.50          | 16.50          |
|                  |                   | 1              | 49               | 15.41          | 15.51          | 15.31          | 16.50          |
|                  |                   | 25             | 0                | 15.37          | 15.47          | 15.43          | 16.50          |
|                  |                   | 25             | 13               | 15.28          | 15.49          | 15.39          | 16.50          |
|                  |                   | 25             | 25               | 15.34          | 15.38          | 15.48          | 16.50          |
|                  | 64QAM             | 50             | 0                | 15.33          | 15.50          | 15.40          | 16.50          |
|                  |                   | 1              | 0                | 15.32          | 15.38          | 15.37          | 16.50          |
|                  |                   | 1              | 25               | 15.36          | 15.52          | 15.48          | 16.50          |
|                  |                   | 1              | 49               | 15.28          | 15.45          | 15.33          | 16.50          |
|                  |                   | 25             | 0                | 15.36          | 15.35          | 15.49          | 16.50          |
|                  |                   | 25             | 13               | 15.33          | 15.51          | 15.45          | 16.50          |
|                  |                   | 25             | 25               | 15.41          | 15.46          | 15.34          | 16.50          |
|                  |                   | 50             | 0                | 15.36          | 15.50          | 15.36          | 16.50          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
| <b>15MHz</b>     | QPSK              |                |                  | 26115          | 26365          | 26615          |                |
|                  |                   | 1              | 0                | 15.26          | 15.53          | 15.41          | 16.50          |
|                  |                   | 1              | 38               | 15.35          | 15.48          | 15.32          | 16.50          |
|                  |                   | 1              | 74               | 15.38          | 15.44          | 15.40          | 16.50          |
|                  |                   | 36             | 0                | 15.26          | 15.52          | 15.42          | 16.50          |
|                  |                   | 36             | 18               | 15.41          | 15.42          | 15.41          | 16.50          |
|                  |                   | 36             | 39               | 15.22          | 15.47          | 15.31          | 16.50          |
|                  | 16QAM             | 75             | 0                | 15.36          | 15.52          | 15.41          | 16.50          |
|                  |                   | 1              | 0                | 15.31          | 15.50          | 15.37          | 16.50          |
|                  |                   | 1              | 38               | 15.39          | 15.49          | 15.43          | 16.50          |
|                  |                   | 1              | 74               | 15.22          | 15.49          | 15.34          | 16.50          |
|                  |                   | 36             | 0                | 15.30          | 15.50          | 15.34          | 16.50          |

|           |            | 36      | 18        | 15.35   | 15.51   | 15.44   | 16.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 39        | 15.36   | 15.40   | 15.42   | 16.50   |
|           |            | 75      | 0         | 15.24   | 15.43   | 15.47   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.35   | 15.41   | 15.44   | 16.50   |
|           |            | 1       | 38        | 15.26   | 15.47   | 15.34   | 16.50   |
|           |            | 1       | 74        | 15.32   | 15.46   | 15.45   | 16.50   |
|           |            | 36      | 0         | 15.36   | 15.46   | 15.44   | 16.50   |
|           |            | 36      | 18        | 15.37   | 15.42   | 15.45   | 16.50   |
|           |            | 36      | 39        | 15.35   | 15.41   | 15.43   | 16.50   |
|           |            | 75      | 0         | 15.27   | 15.47   | 15.46   | 16.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26140   | 26365   | 26590   |         |
| 20MHz     | QPSK       | 1       | 0         | 15.43   | 15.57   | 15.51   | 16.50   |
|           |            | 1       | 50        | 15.26   | 15.36   | 15.34   | 16.50   |
|           |            | 1       | 99        | 15.40   | 15.41   | 15.34   | 16.50   |
|           |            | 50      | 0         | 15.29   | 15.46   | 15.37   | 16.50   |
|           |            | 50      | 25        | 15.25   | 15.38   | 15.32   | 16.50   |
|           |            | 50      | 50        | 15.34   | 15.51   | 15.36   | 16.50   |
|           |            | 100     | 0         | 15.24   | 15.45   | 15.35   | 16.50   |
|           | 16QAM      | 1       | 0         | 15.39   | 15.50   | 15.37   | 16.50   |
|           |            | 1       | 50        | 15.29   | 15.44   | 15.38   | 16.50   |
|           |            | 1       | 99        | 15.34   | 15.54   | 15.48   | 16.50   |
|           |            | 50      | 0         | 15.32   | 15.56   | 15.32   | 16.50   |
|           |            | 50      | 25        | 15.25   | 15.37   | 15.38   | 16.50   |
|           |            | 50      | 50        | 15.33   | 15.44   | 15.45   | 16.50   |
|           |            | 100     | 0         | 15.27   | 15.53   | 15.43   | 16.50   |
|           | 64QAM      | 1       | 0         | 15.35   | 15.38   | 15.41   | 16.50   |
|           |            | 1       | 50        | 15.31   | 15.39   | 15.31   | 16.50   |
|           |            | 1       | 99        | 15.36   | 15.36   | 15.37   | 16.50   |
|           |            | 50      | 0         | 15.30   | 15.38   | 15.36   | 16.50   |
|           |            | 50      | 25        | 15.41   | 15.48   | 15.34   | 16.50   |
|           |            | 50      | 50        | 15.37   | 15.52   | 15.44   | 16.50   |
|           |            | 100     | 0         | 15.34   | 15.46   | 15.35   | 16.50   |

| LTE Band 25 Ant0 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 26047                | 26365   | 26683   |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 14.94                | 15.15   | 15.01   | 16.00   |
|                             |            | 1       | 2         | 14.91                | 15.09   | 15.03   | 16.00   |
|                             |            | 1       | 5         | 14.96                | 15.11   | 14.93   | 16.00   |
|                             |            | 3       | 0         | 14.83                | 15.00   | 14.89   | 16.00   |
|                             |            | 3       | 2         | 14.98                | 15.03   | 14.97   | 16.00   |
|                             |            | 3       | 3         | 14.86                | 15.06   | 14.90   | 16.00   |
|                             |            | 6       | 0         | 14.91                | 14.96   | 14.89   | 16.00   |
|                             | 16QAM      | 1       | 0         | 14.98                | 14.98   | 15.00   | 16.00   |
|                             |            | 1       | 2         | 14.82                | 15.12   | 14.97   | 16.00   |
|                             |            | 1       | 5         | 14.86                | 15.01   | 15.07   | 16.00   |
|                             |            | 3       | 0         | 14.90                | 15.13   | 15.03   | 16.00   |

|           |            | 3       | 2         | 15.00   | 15.13   | 14.91   | 16.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 3         | 15.00   | 15.09   | 15.06   | 16.00   |
|           |            | 6       | 0         | 14.90   | 15.14   | 14.96   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.81   | 14.99   | 15.02   | 16.00   |
|           |            | 1       | 2         | 14.89   | 15.02   | 14.92   | 16.00   |
|           |            | 1       | 5         | 14.92   | 15.10   | 14.94   | 16.00   |
|           |            | 3       | 0         | 14.91   | 14.97   | 14.89   | 16.00   |
|           |            | 3       | 2         | 14.85   | 15.05   | 15.05   | 16.00   |
|           |            | 3       | 3         | 14.99   | 15.09   | 15.08   | 16.00   |
|           |            | 6       | 0         | 14.91   | 15.12   | 15.08   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26055   | 26365   | 26675   |         |
| 3MHz      | QPSK       | 1       | 0         | 14.86   | 15.07   | 14.89   | 16.00   |
|           |            | 1       | 7         | 14.88   | 15.16   | 14.90   | 16.00   |
|           |            | 1       | 14        | 14.88   | 15.10   | 14.90   | 16.00   |
|           |            | 8       | 0         | 15.00   | 15.15   | 14.94   | 16.00   |
|           |            | 8       | 4         | 14.97   | 15.14   | 14.93   | 16.00   |
|           |            | 8       | 7         | 15.00   | 15.08   | 14.92   | 16.00   |
|           |            | 15      | 0         | 14.86   | 15.13   | 15.07   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.95   | 15.02   | 14.99   | 16.00   |
|           |            | 1       | 7         | 14.94   | 15.12   | 15.05   | 16.00   |
|           |            | 1       | 14        | 14.89   | 15.14   | 14.94   | 16.00   |
|           |            | 8       | 0         | 14.86   | 15.07   | 14.99   | 16.00   |
|           |            | 8       | 4         | 14.86   | 15.12   | 14.89   | 16.00   |
|           |            | 8       | 7         | 14.99   | 15.01   | 14.93   | 16.00   |
|           |            | 15      | 0         | 14.89   | 15.15   | 14.92   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.95   | 14.98   | 14.94   | 16.00   |
|           |            | 1       | 7         | 14.81   | 15.00   | 15.00   | 16.00   |
|           |            | 1       | 14        | 14.84   | 15.10   | 15.01   | 16.00   |
|           |            | 8       | 0         | 14.85   | 15.13   | 14.88   | 16.00   |
|           |            | 8       | 4         | 14.83   | 15.10   | 14.93   | 16.00   |
|           |            | 8       | 7         | 14.85   | 15.06   | 14.98   | 16.00   |
|           |            | 15      | 0         | 14.88   | 15.13   | 15.07   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26065   | 26365   | 26665   |         |
| 5MHz      | QPSK       | 1       | 0         | 14.87   | 15.15   | 14.89   | 16.00   |
|           |            | 1       | 13        | 14.99   | 15.06   | 14.89   | 16.00   |
|           |            | 1       | 24        | 14.96   | 15.09   | 14.95   | 16.00   |
|           |            | 12      | 0         | 14.96   | 15.11   | 14.93   | 16.00   |
|           |            | 12      | 6         | 14.94   | 15.07   | 14.94   | 16.00   |
|           |            | 12      | 13        | 14.96   | 15.10   | 15.04   | 16.00   |
|           |            | 25      | 0         | 14.98   | 15.10   | 15.06   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.93   | 15.02   | 14.96   | 16.00   |
|           |            | 1       | 13        | 14.90   | 15.14   | 14.98   | 16.00   |
|           |            | 1       | 24        | 14.87   | 15.01   | 14.97   | 16.00   |
|           |            | 12      | 0         | 14.84   | 15.07   | 15.05   | 16.00   |
|           |            | 12      | 6         | 14.85   | 14.96   | 15.01   | 16.00   |
|           |            | 12      | 13        | 14.83   | 15.09   | 14.95   | 16.00   |
|           |            | 25      | 0         | 14.84   | 15.02   | 14.98   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.95   | 15.08   | 15.06   | 16.00   |
|           |            | 1       | 13        | 14.82   | 15.10   | 15.00   | 16.00   |

|           |            | 1       | 24        | 14.95   | 15.09   | 14.91   | 16.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 0         | 14.84   | 15.05   | 15.07   | 16.00   |
|           |            | 12      | 6         | 14.85   | 15.03   | 15.01   | 16.00   |
|           |            | 12      | 13        | 14.88   | 15.07   | 14.99   | 16.00   |
|           |            | 25      | 0         | 14.88   | 14.98   | 15.04   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26090   | 26365   | 26640   |         |
| 10MHz     | QPSK       | 1       | 0         | 14.97   | 15.16   | 14.98   | 16.00   |
|           |            | 1       | 25        | 14.94   | 15.15   | 14.98   | 16.00   |
|           |            | 1       | 49        | 14.92   | 15.08   | 15.01   | 16.00   |
|           |            | 25      | 0         | 14.96   | 15.06   | 14.91   | 16.00   |
|           |            | 25      | 13        | 14.95   | 15.12   | 14.99   | 16.00   |
|           |            | 25      | 25        | 14.83   | 15.14   | 15.01   | 16.00   |
|           |            | 50      | 0         | 14.87   | 15.01   | 14.98   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.86   | 15.06   | 15.06   | 16.00   |
|           |            | 1       | 25        | 14.93   | 15.01   | 14.90   | 16.00   |
|           |            | 1       | 49        | 14.82   | 15.12   | 14.91   | 16.00   |
|           |            | 25      | 0         | 14.90   | 15.11   | 14.89   | 16.00   |
|           |            | 25      | 13        | 14.85   | 15.00   | 15.05   | 16.00   |
|           |            | 25      | 25        | 14.93   | 15.00   | 15.08   | 16.00   |
|           |            | 50      | 0         | 15.00   | 15.02   | 15.01   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.88   | 15.12   | 15.03   | 16.00   |
|           |            | 1       | 25        | 14.92   | 15.07   | 14.91   | 16.00   |
|           |            | 1       | 49        | 14.97   | 15.10   | 14.98   | 16.00   |
|           |            | 25      | 0         | 14.91   | 15.11   | 15.05   | 16.00   |
|           |            | 25      | 13        | 14.88   | 15.09   | 14.97   | 16.00   |
|           |            | 25      | 25        | 14.90   | 15.06   | 14.88   | 16.00   |
|           |            | 50      | 0         | 14.88   | 15.03   | 14.93   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26115   | 26365   | 26615   |         |
| 15MHz     | QPSK       | 1       | 0         | 14.82   | 15.15   | 15.01   | 16.00   |
|           |            | 1       | 38        | 14.85   | 15.07   | 14.93   | 16.00   |
|           |            | 1       | 74        | 14.99   | 15.05   | 15.05   | 16.00   |
|           |            | 36      | 0         | 14.97   | 15.05   | 14.96   | 16.00   |
|           |            | 36      | 18        | 14.95   | 14.98   | 15.08   | 16.00   |
|           |            | 36      | 39        | 14.95   | 15.14   | 15.00   | 16.00   |
|           |            | 75      | 0         | 14.86   | 15.10   | 15.04   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.94   | 15.07   | 15.01   | 16.00   |
|           |            | 1       | 38        | 14.92   | 15.11   | 15.06   | 16.00   |
|           |            | 1       | 74        | 14.82   | 15.11   | 15.00   | 16.00   |
|           |            | 36      | 0         | 14.81   | 14.99   | 15.05   | 16.00   |
|           |            | 36      | 18        | 15.00   | 15.00   | 15.03   | 16.00   |
|           |            | 36      | 39        | 14.96   | 14.97   | 15.01   | 16.00   |
|           |            | 75      | 0         | 14.88   | 14.98   | 14.96   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.87   | 15.12   | 14.90   | 16.00   |
|           |            | 1       | 38        | 14.92   | 15.10   | 14.89   | 16.00   |
|           |            | 1       | 74        | 14.95   | 15.03   | 15.07   | 16.00   |
|           |            | 36      | 0         | 14.89   | 15.12   | 14.97   | 16.00   |
|           |            | 36      | 18        | 14.84   | 15.00   | 14.99   | 16.00   |
|           |            | 36      | 39        | 14.98   | 15.09   | 14.99   | 16.00   |
|           |            | 75      | 0         | 15.00   | 15.09   | 15.00   | 16.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 26140   | 26365   | 26590   |         |
| 20MHz     | QPSK       | 1       | 0         | 15.02   | 15.17   | 15.09   | 16.00   |
|           |            | 1       | 50        | 14.96   | 15.08   | 14.97   | 16.00   |
|           |            | 1       | 99        | 14.86   | 15.06   | 14.95   | 16.00   |
|           |            | 50      | 0         | 14.99   | 15.14   | 15.01   | 16.00   |
|           |            | 50      | 25        | 14.85   | 14.99   | 14.89   | 16.00   |
|           |            | 50      | 50        | 14.86   | 15.13   | 14.90   | 16.00   |
|           |            | 100     | 0         | 15.01   | 15.07   | 14.93   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.95   | 14.98   | 15.00   | 16.00   |
|           |            | 1       | 50        | 15.00   | 15.04   | 15.00   | 16.00   |
|           |            | 1       | 99        | 14.90   | 15.12   | 15.01   | 16.00   |
|           |            | 50      | 0         | 14.94   | 15.16   | 14.97   | 16.00   |
|           |            | 50      | 25        | 15.00   | 15.06   | 14.98   | 16.00   |
|           |            | 50      | 50        | 15.00   | 15.12   | 15.01   | 16.00   |
|           |            | 100     | 0         | 14.85   | 15.02   | 14.89   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.82   | 15.02   | 15.07   | 16.00   |
|           |            | 1       | 50        | 14.87   | 15.11   | 14.98   | 16.00   |
|           |            | 1       | 99        | 14.93   | 15.03   | 15.06   | 16.00   |
|           |            | 50      | 0         | 14.91   | 14.97   | 14.99   | 16.00   |
|           |            | 50      | 25        | 14.82   | 15.09   | 14.88   | 16.00   |
|           |            | 50      | 50        | 14.88   | 15.00   | 14.91   | 16.00   |
|           |            | 100     | 0         | 14.88   | 15.03   | 14.97   | 16.00   |

| LTE Band 25 Ant0 Sensor on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 26047                | 26365   | 26683   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 16.56                | 16.84   | 16.66   | 17.50   |
|                            |            | 1       | 2         | 16.53                | 16.62   | 16.61   | 17.50   |
|                            |            | 1       | 5         | 16.58                | 16.80   | 16.47   | 17.50   |
|                            |            | 3       | 0         | 16.39                | 16.56   | 16.42   | 17.50   |
|                            |            | 3       | 2         | 16.55                | 16.64   | 16.52   | 17.50   |
|                            |            | 3       | 3         | 16.46                | 16.72   | 16.46   | 17.50   |
|                            |            | 6       | 0         | 16.57                | 16.52   | 16.50   | 17.50   |
|                            | 16QAM      | 1       | 0         | 16.54                | 16.55   | 16.70   | 17.50   |
|                            |            | 1       | 2         | 16.37                | 16.69   | 16.58   | 17.50   |
|                            |            | 1       | 5         | 16.41                | 16.58   | 16.67   | 17.50   |
|                            |            | 3       | 0         | 16.58                | 16.68   | 16.57   | 17.50   |
|                            |            | 3       | 2         | 16.67                | 16.78   | 16.53   | 17.50   |
|                            |            | 3       | 3         | 16.57                | 16.77   | 16.57   | 17.50   |
|                            |            | 6       | 0         | 16.50                | 16.80   | 16.64   | 17.50   |
|                            | 64QAM      | 1       | 0         | 16.42                | 16.53   | 16.53   | 17.50   |
|                            |            | 1       | 2         | 16.56                | 16.67   | 16.54   | 17.50   |
|                            |            | 1       | 5         | 16.60                | 16.78   | 16.64   | 17.50   |
|                            |            | 3       | 0         | 16.58                | 16.64   | 16.40   | 17.50   |
|                            |            | 3       | 2         | 16.43                | 16.74   | 16.75   | 17.50   |
|                            |            | 3       | 3         | 16.50                | 16.66   | 16.67   | 17.50   |
|                            |            | 6       | 0         | 16.54                | 16.69   | 16.70   | 17.50   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 26055   | 26365   | 26675   |         |
| 3MHz      | QPSK       | 1       | 0         | 16.53   | 16.83   | 16.47   | 17.50   |
|           |            | 1       | 7         | 16.54   | 16.78   | 16.52   | 17.50   |
|           |            | 1       | 14        | 16.56   | 16.69   | 16.59   | 17.50   |
|           |            | 8       | 0         | 16.52   | 16.80   | 16.57   | 17.50   |
|           |            | 8       | 4         | 16.62   | 16.82   | 16.58   | 17.50   |
|           |            | 8       | 7         | 16.69   | 16.58   | 16.55   | 17.50   |
|           |            | 15      | 0         | 16.41   | 16.64   | 16.68   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.50   | 16.63   | 16.57   | 17.50   |
|           |            | 1       | 7         | 16.59   | 16.80   | 16.62   | 17.50   |
|           |            | 1       | 14        | 16.57   | 16.77   | 16.47   | 17.50   |
|           |            | 8       | 0         | 16.48   | 16.66   | 16.50   | 17.50   |
|           |            | 8       | 4         | 16.48   | 16.75   | 16.57   | 17.50   |
|           |            | 8       | 7         | 16.56   | 16.59   | 16.53   | 17.50   |
|           |            | 15      | 0         | 16.50   | 16.73   | 16.58   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.62   | 16.62   | 16.57   | 17.50   |
|           |            | 1       | 7         | 16.47   | 16.66   | 16.65   | 17.50   |
|           |            | 1       | 14        | 16.54   | 16.60   | 16.59   | 17.50   |
|           |            | 8       | 0         | 16.40   | 16.82   | 16.48   | 17.50   |
|           |            | 8       | 4         | 16.37   | 16.68   | 16.58   | 17.50   |
|           |            | 8       | 7         | 16.51   | 16.65   | 16.63   | 17.50   |
|           |            | 15      | 0         | 16.41   | 16.70   | 16.73   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26065   | 26365   | 26665   |         |
| 5MHz      | QPSK       | 1       | 0         | 16.37   | 16.81   | 16.44   | 17.50   |
|           |            | 1       | 13        | 16.53   | 16.75   | 16.39   | 17.50   |
|           |            | 1       | 24        | 16.55   | 16.75   | 16.62   | 17.50   |
|           |            | 12      | 0         | 16.54   | 16.76   | 16.54   | 17.50   |
|           |            | 12      | 6         | 16.51   | 16.74   | 16.59   | 17.50   |
|           |            | 12      | 13        | 16.55   | 16.76   | 16.64   | 17.50   |
|           |            | 25      | 0         | 16.55   | 16.71   | 16.60   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.51   | 16.61   | 16.56   | 17.50   |
|           |            | 1       | 13        | 16.56   | 16.80   | 16.59   | 17.50   |
|           |            | 1       | 24        | 16.48   | 16.70   | 16.56   | 17.50   |
|           |            | 12      | 0         | 16.39   | 16.64   | 16.73   | 17.50   |
|           |            | 12      | 6         | 16.49   | 16.65   | 16.63   | 17.50   |
|           |            | 12      | 13        | 16.39   | 16.74   | 16.53   | 17.50   |
|           |            | 25      | 0         | 16.41   | 16.63   | 16.50   | 17.50   |
|           | 64QAM      | 1       | 0         | 16.61   | 16.59   | 16.64   | 17.50   |
|           |            | 1       | 13        | 16.37   | 16.76   | 16.64   | 17.50   |
|           |            | 1       | 24        | 16.48   | 16.73   | 16.60   | 17.50   |
|           |            | 12      | 0         | 16.40   | 16.74   | 16.71   | 17.50   |
|           |            | 12      | 6         | 16.41   | 16.58   | 16.70   | 17.50   |
|           |            | 12      | 13        | 16.57   | 16.70   | 16.66   | 17.50   |
|           |            | 25      | 0         | 16.53   | 16.68   | 16.63   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26090   | 26365   | 26640   |         |
| 10MHz     | QPSK       | 1       | 0         | 16.52   | 16.79   | 16.62   | 17.50   |
|           |            | 1       | 25        | 16.49   | 16.72   | 16.53   | 17.50   |
|           |            | 1       | 49        | 16.42   | 16.62   | 16.58   | 17.50   |



|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 16.51   | 16.66   | 16.44   | 17.50   |
|           |            | 25      | 13        | 16.51   | 16.73   | 16.51   | 17.50   |
|           |            | 25      | 25        | 16.37   | 16.78   | 16.66   | 17.50   |
|           |            | 50      | 0         | 16.39   | 16.57   | 16.55   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.52   | 16.69   | 16.58   | 17.50   |
|           |            | 1       | 25        | 16.53   | 16.51   | 16.44   | 17.50   |
|           |            | 1       | 49        | 16.48   | 16.72   | 16.48   | 17.50   |
|           |            | 25      | 0         | 16.53   | 16.72   | 16.40   | 17.50   |
|           |            | 25      | 13        | 16.49   | 16.52   | 16.73   | 17.50   |
|           |            | 25      | 25        | 16.58   | 16.52   | 16.59   | 17.50   |
|           |            | 50      | 0         | 16.60   | 16.63   | 16.66   | 17.50   |
|           |            | 1       | 0         | 16.38   | 16.76   | 16.66   | 17.50   |
|           | 64QAM      | 1       | 25        | 16.61   | 16.58   | 16.61   | 17.50   |
|           |            | 1       | 49        | 16.66   | 16.78   | 16.63   | 17.50   |
|           |            | 25      | 0         | 16.48   | 16.73   | 16.66   | 17.50   |
|           |            | 25      | 13        | 16.54   | 16.60   | 16.66   | 17.50   |
|           |            | 25      | 25        | 16.59   | 16.74   | 16.55   | 17.50   |
|           |            | 50      | 0         | 16.45   | 16.62   | 16.50   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26115   | 26365   | 26615   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.41   | 16.83   | 16.69   | 17.50   |
|           |            | 1       | 38        | 16.48   | 16.68   | 16.51   | 17.50   |
|           |            | 1       | 74        | 16.49   | 16.56   | 16.72   | 17.50   |
|           |            | 36      | 0         | 16.49   | 16.56   | 16.58   | 17.50   |
|           |            | 36      | 18        | 16.64   | 16.56   | 16.70   | 17.50   |
|           |            | 36      | 39        | 16.53   | 16.82   | 16.50   | 17.50   |
|           |            | 75      | 0         | 16.39   | 16.61   | 16.68   | 17.50   |
|           |            | 1       | 0         | 16.47   | 16.58   | 16.59   | 17.50   |
|           | 16QAM      | 1       | 38        | 16.51   | 16.71   | 16.69   | 17.50   |
|           |            | 1       | 74        | 16.40   | 16.65   | 16.69   | 17.50   |
|           |            | 36      | 0         | 16.44   | 16.51   | 16.61   | 17.50   |
|           |            | 36      | 18        | 16.66   | 16.62   | 16.70   | 17.50   |
|           |            | 36      | 39        | 16.57   | 16.58   | 16.54   | 17.50   |
|           |            | 75      | 0         | 16.51   | 16.59   | 16.52   | 17.50   |
|           |            | 1       | 0         | 16.42   | 16.76   | 16.50   | 17.50   |
|           |            | 1       | 38        | 16.60   | 16.72   | 16.57   | 17.50   |
|           | 64QAM      | 1       | 74        | 16.50   | 16.71   | 16.66   | 17.50   |
|           |            | 36      | 0         | 16.55   | 16.76   | 16.57   | 17.50   |
|           |            | 36      | 18        | 16.40   | 16.60   | 16.61   | 17.50   |
|           |            | 36      | 39        | 16.52   | 16.75   | 16.63   | 17.50   |
|           |            | 75      | 0         | 16.64   | 16.69   | 16.69   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26140   | 26365   | 26590   |         |
| 20MHz     | QPSK       | 1       | 0         | 16.56   | 16.86   | 16.76   | 17.50   |
|           |            | 1       | 50        | 16.49   | 16.62   | 16.47   | 17.50   |
|           |            | 1       | 99        | 16.50   | 16.62   | 16.57   | 17.50   |
|           |            | 50      | 0         | 16.51   | 16.79   | 16.58   | 17.50   |
|           |            | 50      | 25        | 16.40   | 16.56   | 16.59   | 17.50   |
|           |            | 50      | 50        | 16.47   | 16.83   | 16.50   | 17.50   |
|           |            | 100     | 0         | 16.53   | 16.69   | 16.53   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.48   | 16.51   | 16.61   | 17.50   |

|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  |       | 1   | 50 | 16.61 | 16.62 | 16.65 | 17.50 |
|  |       | 1   | 99 | 16.54 | 16.82 | 16.66 | 17.50 |
|  |       | 50  | 0  | 16.46 | 16.85 | 16.54 | 17.50 |
|  |       | 50  | 25 | 16.50 | 16.62 | 16.51 | 17.50 |
|  |       | 50  | 50 | 16.52 | 16.77 | 16.65 | 17.50 |
|  |       | 100 | 0  | 16.41 | 16.58 | 16.54 | 17.50 |
|  | 64QAM | 1   | 0  | 16.47 | 16.57 | 16.63 | 17.50 |
|  |       | 1   | 50 | 16.50 | 16.77 | 16.54 | 17.50 |
|  |       | 1   | 99 | 16.56 | 16.69 | 16.57 | 17.50 |
|  |       | 50  | 0  | 16.43 | 16.49 | 16.68 | 17.50 |
|  |       | 50  | 25 | 16.35 | 16.72 | 16.56 | 17.50 |
|  |       | 50  | 50 | 16.41 | 16.61 | 16.44 | 17.50 |
|  |       | 100 | 0  | 16.41 | 16.60 | 16.59 | 17.50 |

| LTE Band 38 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                        | QPSK       | 1       | 0         | 22.72                | 22.63   | 22.78   | 24.00   |
|                             |            | 1       | 13        | 22.72                | 22.73   | 22.85   | 24.00   |
|                             |            | 1       | 24        | 22.70                | 22.70   | 22.78   | 24.00   |
|                             |            | 12      | 0         | 21.86                | 21.78   | 21.80   | 23.00   |
|                             |            | 12      | 6         | 21.81                | 21.74   | 21.83   | 23.00   |
|                             |            | 12      | 13        | 21.76                | 21.81   | 21.77   | 23.00   |
|                             |            | 25      | 0         | 21.81                | 21.73   | 21.82   | 23.00   |
|                             | 16QAM      | 1       | 0         | 21.83                | 21.83   | 21.80   | 23.00   |
|                             |            | 1       | 13        | 22.02                | 21.97   | 21.85   | 23.00   |
|                             |            | 1       | 24        | 21.76                | 22.05   | 21.79   | 23.00   |
|                             |            | 12      | 0         | 20.75                | 20.72   | 20.78   | 22.00   |
|                             |            | 12      | 6         | 20.87                | 20.73   | 20.76   | 22.00   |
|                             |            | 12      | 13        | 20.85                | 20.80   | 20.82   | 22.00   |
|                             |            | 25      | 0         | 20.79                | 20.69   | 20.74   | 22.00   |
|                             | 64QAM      | 1       | 0         | 20.69                | 20.52   | 20.63   | 22.00   |
|                             |            | 1       | 13        | 20.68                | 20.56   | 20.71   | 22.00   |
|                             |            | 1       | 24        | 20.57                | 20.64   | 20.75   | 22.00   |
|                             |            | 12      | 0         | 19.80                | 19.75   | 19.69   | 21.00   |
|                             |            | 12      | 6         | 19.74                | 19.68   | 19.71   | 21.00   |
|                             |            | 12      | 13        | 19.69                | 19.62   | 19.72   | 21.00   |
|                             |            | 25      | 0         | 19.63                | 19.56   | 19.64   | 21.00   |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                       | QPSK       | 1       | 0         | 22.82                | 22.78   | 22.85   | 24.00   |
|                             |            | 1       | 25        | 22.69                | 22.73   | 22.74   | 24.00   |

|           |            | 1       | 49        | 22.65   | 22.73   | 22.74   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 21.82   | 21.75   | 21.73   | 23.00   |
|           |            | 25      | 13        | 21.82   | 21.74   | 21.76   | 23.00   |
|           |            | 25      | 25        | 21.76   | 21.82   | 21.79   | 23.00   |
|           |            | 50      | 0         | 21.80   | 21.74   | 21.75   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.00   | 21.67   | 21.68   | 23.00   |
|           |            | 1       | 25        | 21.95   | 21.90   | 21.61   | 23.00   |
|           |            | 1       | 49        | 21.87   | 21.92   | 21.55   | 23.00   |
|           |            | 25      | 0         | 20.84   | 20.75   | 20.77   | 22.00   |
|           |            | 25      | 13        | 20.81   | 20.78   | 20.79   | 22.00   |
|           |            | 25      | 25        | 20.79   | 20.83   | 20.79   | 22.00   |
|           |            | 50      | 0         | 20.78   | 20.73   | 20.71   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.75   | 20.62   | 20.82   | 22.00   |
|           |            | 1       | 25        | 20.55   | 20.67   | 20.69   | 22.00   |
|           |            | 1       | 49        | 20.49   | 20.67   | 20.67   | 22.00   |
|           |            | 25      | 0         | 19.67   | 19.62   | 19.63   | 21.00   |
|           |            | 25      | 13        | 19.78   | 19.73   | 19.57   | 21.00   |
|           |            | 25      | 25        | 19.57   | 19.80   | 19.66   | 21.00   |
|           |            | 50      | 0         | 19.78   | 19.67   | 19.55   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.62   | 22.76   | 22.72   | 24.00   |
|           |            | 1       | 38        | 22.54   | 22.61   | 22.53   | 24.00   |
|           |            | 1       | 74        | 22.55   | 22.63   | 22.49   | 24.00   |
|           |            | 36      | 0         | 21.62   | 21.63   | 21.60   | 23.00   |
|           |            | 36      | 18        | 21.70   | 21.62   | 21.65   | 23.00   |
|           |            | 36      | 39        | 21.58   | 21.65   | 21.61   | 23.00   |
|           |            | 75      | 0         | 21.66   | 21.58   | 21.55   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.89   | 21.68   | 22.05   | 23.00   |
|           |            | 1       | 38        | 21.84   | 21.60   | 21.63   | 23.00   |
|           |            | 1       | 74        | 21.74   | 21.64   | 22.05   | 23.00   |
|           |            | 36      | 0         | 20.60   | 20.62   | 20.63   | 22.00   |
|           |            | 36      | 18        | 20.68   | 20.63   | 20.61   | 22.00   |
|           |            | 36      | 39        | 20.62   | 20.63   | 20.61   | 22.00   |
|           |            | 75      | 0         | 20.59   | 20.56   | 20.61   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.44   | 20.59   | 20.59   | 22.00   |
|           |            | 1       | 38        | 20.50   | 20.52   | 20.50   | 22.00   |
|           |            | 1       | 74        | 20.51   | 20.46   | 20.44   | 22.00   |
|           |            | 36      | 0         | 19.59   | 19.43   | 19.60   | 21.00   |
|           |            | 36      | 18        | 19.58   | 19.47   | 19.53   | 21.00   |
|           |            | 36      | 39        | 19.38   | 19.54   | 19.47   | 21.00   |
|           |            | 75      | 0         | 19.61   | 19.53   | 19.41   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 37850   | 38000   | 38150   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.73   | 22.61   | 22.62   | 24.00   |
|           |            | 1       | 50        | 22.55   | 22.68   | 22.70   | 24.00   |
|           |            | 1       | 99        | 22.55   | 22.59   | 22.54   | 24.00   |
|           |            | 50      | 0         | 21.62   | 21.64   | 21.61   | 23.00   |
|           |            | 50      | 25        | 21.65   | 21.66   | 21.64   | 23.00   |
|           |            | 50      | 50        | 21.60   | 21.72   | 21.68   | 23.00   |
|           |            | 100     | 0         | 21.63   | 21.65   | 21.59   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.78   | 21.89   | 21.92   | 23.00   |
|           |            | 1       | 50        | 21.62   | 21.50   | 21.78   | 23.00   |
|           |            | 1       | 99        | 21.58   | 21.43   | 21.86   | 23.00   |
|           |            | 50      | 0         | 20.60   | 20.62   | 20.64   | 22.00   |
|           |            | 50      | 25        | 20.65   | 20.64   | 20.63   | 22.00   |
|           |            | 50      | 50        | 20.60   | 20.75   | 20.67   | 22.00   |
|           |            | 100     | 0         | 20.64   | 20.66   | 20.61   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.69   | 20.56   | 20.49   | 22.00   |
|           |            | 1       | 50        | 20.44   | 20.57   | 20.60   | 22.00   |
|           |            | 1       | 99        | 20.41   | 20.42   | 20.42   | 22.00   |
|           |            | 50      | 0         | 19.55   | 19.49   | 19.47   | 21.00   |
|           |            | 50      | 25        | 19.58   | 19.53   | 19.46   | 21.00   |
|           |            | 50      | 50        | 19.53   | 19.68   | 19.55   | 21.00   |
|           |            | 100     | 0         | 19.55   | 19.64   | 19.51   | 21.00   |

| LTE Band 41 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                             |            |         |           | 39675                | 40148   | 40620   | 41093   | 41565   |         |
| 5MHz                        | QPSK       | 1       | 0         | 22.83                | 22.58   | 22.59   | 22.69   | 22.98   | 24.00   |
|                             |            | 1       | 13        | 23.04                | 22.74   | 22.69   | 22.87   | 23.11   | 24.00   |
|                             |            | 1       | 24        | 22.92                | 22.61   | 22.59   | 22.75   | 23.08   | 24.00   |
|                             |            | 12      | 0         | 22                   | 21.82   | 21.7    | 21.78   | 21.99   | 23.00   |
|                             |            | 12      | 6         | 22.04                | 21.84   | 21.72   | 21.81   | 22.02   | 23.00   |
|                             |            | 12      | 13        | 22                   | 21.75   | 21.68   | 21.72   | 21.98   | 23.00   |
|                             |            | 25      | 0         | 21.99                | 21.81   | 21.66   | 21.76   | 21.98   | 23.00   |
|                             | 16QAM      | 1       | 0         | 22.01                | 21.66   | 21.53   | 21.76   | 22.29   | 23.00   |
|                             |            | 1       | 13        | 22.28                | 22.02   | 21.99   | 22.01   | 22.1    | 23.00   |
|                             |            | 1       | 24        | 22.03                | 21.67   | 21.6    | 21.71   | 21.99   | 23.00   |
|                             |            | 12      | 0         | 21.01                | 20.82   | 20.71   | 20.78   | 21.01   | 22.00   |
|                             |            | 12      | 6         | 21.09                | 20.82   | 20.64   | 20.68   | 20.92   | 22.00   |
|                             |            | 12      | 13        | 21.02                | 20.82   | 20.66   | 20.81   | 21.07   | 22.00   |

|           |            | 25      | 0         | 21.03   | 20.7    | 20.66   | 20.77   | 20.95   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | 20.65   | 20.38   | 20.45   | 20.57   | 20.96   | 22.00   |
|           |            | 1       | 13        | 20.95   | 20.7    | 20.53   | 20.86   | 20.93   | 22.00   |
|           |            | 1       | 24        | 20.87   | 20.52   | 20.46   | 20.67   | 20.98   | 22.00   |
|           |            | 12      | 0         | 19.82   | 19.69   | 19.54   | 19.69   | 19.98   | 21.00   |
|           |            | 12      | 6         | 19.9    | 19.82   | 19.69   | 19.71   | 19.87   | 21.00   |
|           |            | 12      | 13        | 19.96   | 19.7    | 19.58   | 19.7    | 19.91   | 21.00   |
|           |            | 25      | 0         | 19.95   | 19.7    | 19.63   | 19.58   | 19.82   | 21.00   |
|           |            | 25      | 0         | 19.95   | 19.7    | 19.63   | 19.58   | 19.82   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39700   | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.94   | 22.68   | 22.71   | 22.8    | 23.06   | 24.00   |
|           |            | 1       | 25        | 22.95   | 22.65   | 22.61   | 22.77   | 23.03   | 24.00   |
|           |            | 1       | 49        | 22.9    | 22.62   | 22.57   | 22.59   | 22.87   | 24.00   |
|           |            | 25      | 0         | 21.97   | 21.73   | 21.61   | 21.73   | 21.97   | 23.00   |
|           |            | 25      | 13        | 22.06   | 21.88   | 21.75   | 21.79   | 22.09   | 23.00   |
|           |            | 25      | 25        | 22.06   | 21.87   | 21.74   | 21.72   | 21.99   | 23.00   |
|           |            | 50      | 0         | 22.06   | 21.77   | 21.72   | 21.76   | 22.03   | 23.00   |
|           |            | 50      | 0         | 22.06   | 21.77   | 21.72   | 21.76   | 22.03   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.94   | 21.63   | 21.53   | 21.54   | 21.68   | 23.00   |
|           |            | 1       | 25        | 22.13   | 21.77   | 21.48   | 21.58   | 21.95   | 23.00   |
|           |            | 1       | 49        | 21.84   | 21.63   | 21.56   | 21.83   | 22.23   | 23.00   |
|           |            | 25      | 0         | 20.99   | 20.84   | 20.69   | 20.68   | 20.91   | 22.00   |
|           |            | 25      | 13        | 21.12   | 20.93   | 20.76   | 20.8    | 21.1    | 22.00   |
|           |            | 25      | 25        | 21.06   | 20.75   | 20.72   | 20.81   | 20.97   | 22.00   |
|           |            | 50      | 0         | 21.07   | 20.77   | 20.7    | 20.8    | 21.09   | 22.00   |
|           |            | 50      | 0         | 21.07   | 20.77   | 20.7    | 20.8    | 21.09   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.85   | 20.5    | 20.63   | 20.69   | 21.03   | 22.00   |
|           |            | 1       | 25        | 20.85   | 20.56   | 20.53   | 20.73   | 20.98   | 22.00   |
|           |            | 1       | 49        | 20.89   | 20.5    | 20.42   | 20.55   | 20.79   | 22.00   |
|           |            | 25      | 0         | 19.93   | 19.64   | 19.54   | 19.68   | 19.84   | 21.00   |
|           |            | 25      | 13        | 19.94   | 19.77   | 19.59   | 19.67   | 20.04   | 21.00   |
|           |            | 25      | 25        | 20.01   | 19.81   | 19.55   | 19.63   | 19.91   | 21.00   |
|           |            | 50      | 0         | 20.01   | 19.76   | 19.61   | 19.6    | 20.01   | 21.00   |
|           |            | 50      | 0         | 20.01   | 19.76   | 19.61   | 19.6    | 20.01   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.81   | 22.53   | 22.48   | 22.56   | 22.83   | 24.00   |
|           |            | 1       | 38        | 22.72   | 22.41   | 22.37   | 22.46   | 22.84   | 24.00   |
|           |            | 1       | 74        | 22.65   | 22.47   | 22.49   | 22.58   | 22.83   | 24.00   |
|           |            | 36      | 0         | 21.78   | 21.54   | 21.55   | 21.69   | 21.91   | 23.00   |
|           |            | 36      | 18        | 21.86   | 21.59   | 21.59   | 21.63   | 21.88   | 23.00   |
|           |            | 36      | 39        | 21.79   | 21.6    | 21.57   | 21.58   | 21.89   | 23.00   |
|           |            | 75      | 0         | 21.83   | 21.65   | 21.55   | 21.56   | 21.82   | 23.00   |
|           |            | 75      | 0         | 21.83   | 21.65   | 21.55   | 21.56   | 21.82   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.06   | 21.65   | 21.34   | 21.4    | 21.7    | 23.00   |
|           |            | 1       | 38        | 21.89   | 21.56   | 21.36   | 21.52   | 21.89   | 23.00   |

|       |           |            |         |           |         |         |         |         |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|
|       |           | 1          | 74      | 21.85     | 21.44   | 21.33   | 21.57   | 22.1    | 23.00   |
|       |           | 36         | 0       | 20.83     | 20.61   | 20.53   | 20.76   | 21.21   | 22.00   |
|       |           | 36         | 18      | 20.88     | 20.68   | 20.56   | 20.91   | 21.33   | 22.00   |
|       |           | 36         | 39      | 20.8      | 20.66   | 20.54   | 20.94   | 21.42   | 22.00   |
|       |           | 75         | 0       | 20.86     | 20.61   | 20.58   | 20.86   | 21.37   | 22.00   |
|       | 64QAM     | 1          | 0       | 20.64     | 20.4    | 20.31   | 20.43   | 20.7    | 22.00   |
|       |           | 1          | 38      | 20.61     | 20.28   | 20.26   | 20.28   | 20.68   | 22.00   |
|       |           | 1          | 74      | 20.46     | 20.28   | 20.46   | 20.54   | 20.66   | 22.00   |
|       |           | 36         | 0       | 19.71     | 19.38   | 19.36   | 19.58   | 19.81   | 21.00   |
|       |           | 36         | 18      | 19.81     | 19.49   | 19.42   | 19.61   | 19.77   | 21.00   |
|       |           | 36         | 39      | 19.6      | 19.47   | 19.42   | 19.46   | 19.84   | 21.00   |
|       |           | 75         | 0       | 19.7      | 19.47   | 19.55   | 19.5    | 19.63   | 21.00   |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 39750   | 40185   | 40620   | 41055   |         |
| 20MHz | QPSK      | 1          | 0       | 22.88     | 22.98   | 23.13   | 22.93   | 23.08   | 24.00   |
|       |           | 1          | 50      | 22.81     | 22.57   | 22.35   | 22.48   | 22.75   | 24.00   |
|       |           | 1          | 99      | 22.68     | 22.52   | 22.4    | 22.52   | 22.72   | 24.00   |
|       |           | 50         | 0       | 21.89     | 21.92   | 21.95   | 21.86   | 21.88   | 23.00   |
|       |           | 50         | 25      | 21.85     | 21.59   | 21.6    | 21.67   | 21.84   | 23.00   |
|       |           | 50         | 50      | 21.76     | 21.66   | 21.57   | 21.72   | 21.78   | 23.00   |
|       |           | 100        | 0       | 21.86     | 21.6    | 21.98   | 21.71   | 21.91   | 23.00   |
|       | 16QAM     | 1          | 0       | 22.14     | 21.6    | 21.33   | 21.56   | 22.03   | 23.00   |
|       |           | 1          | 50      | 21.81     | 21.63   | 21.68   | 21.8    | 21.96   | 23.00   |
|       |           | 1          | 99      | 21.59     | 21.35   | 21.4    | 21.66   | 21.94   | 23.00   |
|       |           | 50         | 0       | 20.81     | 20.55   | 20.5    | 20.66   | 20.89   | 22.00   |
|       |           | 50         | 25      | 20.88     | 20.62   | 20.61   | 20.65   | 20.95   | 22.00   |
|       |           | 50         | 50      | 20.79     | 20.65   | 20.52   | 20.65   | 20.87   | 22.00   |
|       |           | 100        | 0       | 20.87     | 20.59   | 20.58   | 20.73   | 20.94   | 22.00   |
|       | 64QAM     | 1          | 0       | 20.8      | 20.91   | 21.04   | 20.81   | 20.88   | 22.00   |
|       |           | 1          | 50      | 20.69     | 20.47   | 20.33   | 20.47   | 20.69   | 22.00   |
|       |           | 1          | 99      | 20.53     | 20.33   | 20.27   | 20.5    | 20.54   | 22.00   |
|       |           | 50         | 0       | 19.78     | 19.76   | 19.83   | 19.71   | 19.69   | 21.00   |
|       |           | 50         | 25      | 19.83     | 19.4    | 19.53   | 19.52   | 19.76   | 21.00   |
|       |           | 50         | 50      | 19.62     | 19.66   | 19.52   | 19.55   | 19.71   | 21.00   |
|       |           | 100        | 0       | 19.81     | 19.48   | 19.94   | 19.56   | 19.77   | 21.00   |

| LTE Band 42a Ant2 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 42115                | 42590   | 43065   |         |
| 5MHz                         | QPSK       | 1       | 0         | 20.26                | 19.66   | 19.81   | 21.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 20.30   | 19.75   | 19.86   | 21.50   |
|           |            | 1       | 24        | 20.29   | 19.67   | 19.74   | 21.50   |
|           |            | 12      | 0         | 19.37   | 18.77   | 18.76   | 20.50   |
|           |            | 12      | 6         | 19.41   | 18.74   | 18.87   | 20.50   |
|           |            | 12      | 13        | 19.24   | 18.73   | 18.84   | 20.50   |
|           |            | 25      | 0         | 19.31   | 18.72   | 18.90   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.39   | 18.89   | 18.90   | 20.50   |
|           |            | 1       | 13        | 19.81   | 18.58   | 19.21   | 20.50   |
|           |            | 1       | 24        | 19.63   | 18.53   | 19.05   | 20.50   |
|           |            | 12      | 0         | 18.30   | 17.70   | 17.79   | 19.50   |
|           |            | 12      | 6         | 18.37   | 17.76   | 17.76   | 19.50   |
|           |            | 12      | 13        | 18.16   | 17.72   | 17.81   | 19.50   |
|           |            | 25      | 0         | 18.34   | 17.64   | 17.77   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.49   | 17.60   | 17.84   | 19.50   |
|           |            | 1       | 13        | 18.57   | 17.67   | 17.50   | 19.50   |
|           |            | 1       | 24        | 17.92   | 17.72   | 17.68   | 19.50   |
|           |            | 12      | 0         | 17.27   | 16.78   | 16.72   | 18.50   |
|           |            | 12      | 6         | 17.34   | 16.75   | 16.98   | 18.50   |
|           |            | 12      | 13        | 17.19   | 16.77   | 16.72   | 18.50   |
|           |            | 25      | 0         | 17.25   | 16.73   | 16.84   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 42140   | 42590   | 43040   |         |
| 10MHz     | QPSK       | 1       | 0         | 20.28   | 19.80   | 20.04   | 21.50   |
|           |            | 1       | 25        | 20.32   | 19.78   | 20.14   | 21.50   |
|           |            | 1       | 49        | 20.32   | 19.97   | 20.08   | 21.50   |
|           |            | 25      | 0         | 19.34   | 18.89   | 19.08   | 20.50   |
|           |            | 25      | 13        | 19.39   | 18.90   | 19.22   | 20.50   |
|           |            | 25      | 25        | 19.23   | 18.90   | 19.17   | 20.50   |
|           |            | 50      | 0         | 19.32   | 18.89   | 19.20   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.16   | 18.90   | 19.14   | 20.50   |
|           |            | 1       | 25        | 19.12   | 18.81   | 19.09   | 20.50   |
|           |            | 1       | 49        | 19.50   | 18.83   | 18.95   | 20.50   |
|           |            | 25      | 0         | 18.31   | 17.81   | 18.11   | 19.50   |
|           |            | 25      | 13        | 18.31   | 17.93   | 18.19   | 19.50   |
|           |            | 25      | 25        | 18.29   | 17.96   | 18.15   | 19.50   |
|           |            | 50      | 0         | 18.34   | 17.87   | 18.16   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.90   | 17.55   | 17.82   | 19.50   |
|           |            | 1       | 25        | 18.71   | 18.13   | 17.88   | 19.50   |
|           |            | 1       | 49        | 17.84   | 17.75   | 18.28   | 19.50   |
|           |            | 25      | 0         | 17.33   | 16.87   | 17.09   | 18.50   |
|           |            | 25      | 13        | 17.35   | 17.00   | 17.26   | 18.50   |
|           |            | 25      | 25        | 17.30   | 16.94   | 17.21   | 18.50   |

|           |            | 50      | 0         | 17.35   | 17.00   | 17.15   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 42165   | 42590   | 43015   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.09   | 19.68   | 19.88   | 21.50   |
|           |            | 1       | 38        | 20.00   | 19.66   | 19.93   | 21.50   |
|           |            | 1       | 74        | 19.96   | 19.79   | 19.91   | 21.50   |
|           |            | 36      | 0         | 19.22   | 18.79   | 18.97   | 20.50   |
|           |            | 36      | 18        | 19.11   | 18.75   | 18.93   | 20.50   |
|           |            | 36      | 39        | 19.11   | 18.77   | 19.01   | 20.50   |
|           |            | 75      | 0         | 19.15   | 18.73   | 18.95   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.25   | 18.63   | 18.91   | 20.50   |
|           |            | 1       | 38        | 19.07   | 18.77   | 18.96   | 20.50   |
|           |            | 1       | 74        | 19.11   | 19.25   | 19.02   | 20.50   |
|           |            | 36      | 0         | 18.30   | 17.77   | 17.99   | 19.50   |
|           |            | 36      | 18        | 18.16   | 17.79   | 17.95   | 19.50   |
|           |            | 36      | 39        | 18.15   | 17.81   | 18.07   | 19.50   |
|           |            | 75      | 0         | 18.16   | 17.77   | 17.87   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.66   | 17.79   | 18.19   | 19.50   |
|           |            | 1       | 38        | 17.89   | 17.61   | 18.02   | 19.50   |
|           |            | 1       | 74        | 18.33   | 18.10   | 17.95   | 19.50   |
|           |            | 36      | 0         | 17.23   | 16.79   | 16.88   | 18.50   |
|           |            | 36      | 18        | 17.12   | 16.81   | 16.95   | 18.50   |
|           |            | 36      | 39        | 17.15   | 16.75   | 17.06   | 18.50   |
|           |            | 75      | 0         | 17.16   | 16.79   | 16.93   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 42190   | 42590   | 42990   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.34   | 19.77   | 19.73   | 21.50   |
|           |            | 1       | 50        | 20.26   | 19.65   | 19.86   | 21.50   |
|           |            | 1       | 99        | 20.03   | 19.71   | 20.00   | 21.50   |
|           |            | 50      | 0         | 19.26   | 18.78   | 18.89   | 20.50   |
|           |            | 50      | 25        | 19.21   | 18.84   | 18.94   | 20.50   |
|           |            | 50      | 50        | 19.07   | 18.83   | 18.97   | 20.50   |
|           |            | 100     | 0         | 19.18   | 18.76   | 18.94   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.34   | 19.00   | 18.91   | 20.50   |
|           |            | 1       | 50        | 19.17   | 18.87   | 19.00   | 20.50   |
|           |            | 1       | 99        | 19.18   | 18.52   | 18.67   | 20.50   |
|           |            | 50      | 0         | 18.26   | 17.84   | 17.85   | 19.50   |
|           |            | 50      | 25        | 18.13   | 17.79   | 18.04   | 19.50   |
|           |            | 50      | 50        | 18.05   | 17.85   | 17.97   | 19.50   |
|           |            | 100     | 0         | 18.15   | 17.89   | 17.92   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.17   | 17.91   | 17.70   | 19.50   |
|           |            | 1       | 50        | 18.29   | 17.66   | 18.05   | 19.50   |



|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 18.06 | 17.76 | 18.14 | 19.50 |
|  |  | 50  | 0  | 17.19 | 16.83 | 16.92 | 18.50 |
|  |  | 50  | 25 | 17.21 | 16.81 | 17.06 | 18.50 |
|  |  | 50  | 50 | 17.09 | 16.84 | 17.09 | 18.50 |
|  |  | 100 | 0  | 17.11 | 16.81 | 17.00 | 18.50 |

| LTE Band 42a Ant2 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 42115                | 42590   | 43065   |         |
| 5MHz                          | QPSK       | 1       | 0         | 18.93                | 18.45   | 18.51   | 20.00   |
|                               |            | 1       | 13        | 19.08                | 18.49   | 18.53   | 20.00   |
|                               |            | 1       | 24        | 18.98                | 18.45   | 18.54   | 20.00   |
|                               |            | 12      | 0         | 19.03                | 18.47   | 18.43   | 20.00   |
|                               |            | 12      | 6         | 18.35                | 18.51   | 18.60   | 20.00   |
|                               |            | 12      | 13        | 18.87                | 18.45   | 18.63   | 20.00   |
|                               |            | 25      | 0         | 19.05                | 18.45   | 18.59   | 20.00   |
|                               | 16QAM      | 1       | 0         | 18.22                | 18.65   | 18.67   | 20.00   |
|                               |            | 1       | 13        | 18.23                | 18.37   | 18.93   | 20.00   |
|                               |            | 1       | 24        | 18.19                | 18.22   | 18.76   | 20.00   |
|                               |            | 12      | 0         | 18.49                | 17.88   | 17.97   | 19.50   |
|                               |            | 12      | 6         | 18.55                | 17.97   | 18.01   | 19.50   |
|                               |            | 12      | 13        | 18.30                | 17.91   | 17.98   | 19.50   |
|                               |            | 25      | 0         | 18.63                | 17.74   | 17.90   | 19.50   |
|                               | 64QAM      | 1       | 0         | 18.60                | 17.85   | 18.07   | 19.50   |
|                               |            | 1       | 13        | 18.68                | 17.82   | 17.78   | 19.50   |
|                               |            | 1       | 24        | 18.11                | 17.98   | 17.85   | 19.50   |
|                               |            | 12      | 0         | 17.53                | 16.92   | 16.84   | 18.50   |
|                               |            | 12      | 6         | 17.52                | 16.91   | 17.25   | 18.50   |
|                               |            | 12      | 13        | 17.36                | 17.04   | 17.02   | 18.50   |
|                               |            | 25      | 0         | 17.54                | 16.91   | 17.10   | 18.50   |
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 42140                | 42590   | 43040   |         |
| 10MHz                         | QPSK       | 1       | 0         | 19.08                | 18.52   | 18.81   | 20.00   |
|                               |            | 1       | 25        | 19.10                | 18.48   | 18.84   | 20.00   |
|                               |            | 1       | 49        | 19.04                | 18.60   | 18.87   | 20.00   |
|                               |            | 25      | 0         | 19.01                | 18.67   | 18.82   | 20.00   |
|                               |            | 25      | 13        | 19.09                | 18.50   | 18.87   | 20.00   |
|                               |            | 25      | 25        | 18.96                | 18.55   | 18.95   | 20.00   |
|                               |            | 50      | 0         | 19.06                | 18.66   | 18.88   | 20.00   |
|                               | 16QAM      | 1       | 0         | 18.93                | 18.67   | 18.84   | 20.00   |

|           |            | 1       | 25        | 18.91   | 18.55   | 18.83   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 49        | 19.01   | 18.48   | 18.65   | 20.00   |
|           |            | 25      | 0         | 18.51   | 17.93   | 18.36   | 19.50   |
|           |            | 25      | 13        | 18.54   | 18.20   | 18.48   | 19.50   |
|           |            | 25      | 25        | 18.46   | 18.11   | 18.26   | 19.50   |
|           |            | 50      | 0         | 18.57   | 18.10   | 18.26   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.06   | 17.78   | 18.06   | 19.50   |
|           |            | 1       | 25        | 18.88   | 18.38   | 18.00   | 19.50   |
|           |            | 1       | 49        | 17.94   | 17.90   | 18.57   | 19.50   |
|           |            | 25      | 0         | 17.48   | 17.07   | 17.23   | 18.50   |
|           |            | 25      | 13        | 17.51   | 17.24   | 17.43   | 18.50   |
|           |            | 25      | 25        | 17.52   | 17.20   | 17.49   | 18.50   |
|           |            | 50      | 0         | 17.62   | 17.21   | 17.43   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 42165   | 42590   | 43015   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.98   | 18.41   | 18.55   | 20.00   |
|           |            | 1       | 38        | 18.63   | 18.28   | 18.57   | 20.00   |
|           |            | 1       | 74        | 18.57   | 18.57   | 18.56   | 20.00   |
|           |            | 36      | 0         | 18.96   | 18.42   | 18.67   | 20.00   |
|           |            | 36      | 18        | 18.84   | 18.53   | 18.69   | 20.00   |
|           |            | 36      | 39        | 18.76   | 18.40   | 18.67   | 20.00   |
|           |            | 75      | 0         | 18.94   | 18.52   | 18.60   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.88   | 18.38   | 18.66   | 20.00   |
|           |            | 1       | 38        | 18.73   | 18.38   | 18.63   | 20.00   |
|           |            | 1       | 74        | 18.88   | 18.97   | 18.71   | 20.00   |
|           |            | 36      | 0         | 18.45   | 18.02   | 18.12   | 19.50   |
|           |            | 36      | 18        | 18.38   | 17.93   | 18.18   | 19.50   |
|           |            | 36      | 39        | 18.29   | 18.10   | 18.19   | 19.50   |
|           |            | 75      | 0         | 18.44   | 17.90   | 18.07   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.90   | 17.92   | 18.41   | 19.50   |
|           |            | 1       | 38        | 18.01   | 17.75   | 18.24   | 19.50   |
|           |            | 1       | 74        | 18.49   | 18.38   | 18.13   | 19.50   |
|           |            | 36      | 0         | 17.36   | 17.03   | 17.03   | 18.50   |
|           |            | 36      | 18        | 17.33   | 17.03   | 17.13   | 18.50   |
|           |            | 36      | 39        | 17.39   | 16.88   | 17.22   | 18.50   |
|           |            | 75      | 0         | 17.35   | 16.92   | 17.20   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 42190   | 42590   | 42990   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.11   | 18.41   | 18.52   | 20.00   |
|           |            | 1       | 50        | 18.88   | 18.42   | 18.59   | 20.00   |
|           |            | 1       | 99        | 18.68   | 18.32   | 18.70   | 20.00   |
|           |            | 50      | 0         | 18.89   | 18.43   | 18.66   | 20.00   |

|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  |       | 50  | 25 | 18.82 | 18.53 | 18.60 | 20.00 |
|  |       | 50  | 50 | 18.81 | 18.52 | 18.69 | 20.00 |
|  |       | 100 | 0  | 18.85 | 18.38 | 18.54 | 20.00 |
|  | 16QAM | 1   | 0  | 18.94 | 18.64 | 18.68 | 20.00 |
|  |       | 1   | 50 | 18.86 | 18.60 | 18.78 | 20.00 |
|  |       | 1   | 99 | 18.80 | 18.23 | 18.38 | 20.00 |
|  |       | 50  | 0  | 18.41 | 17.96 | 18.10 | 19.50 |
|  |       | 50  | 25 | 18.39 | 18.09 | 18.31 | 19.50 |
|  |       | 50  | 50 | 18.25 | 18.13 | 18.21 | 19.50 |
|  |       | 100 | 0  | 18.27 | 18.02 | 18.20 | 19.50 |
|  | 64QAM | 1   | 0  | 18.32 | 18.17 | 17.94 | 19.50 |
|  |       | 1   | 50 | 18.46 | 17.95 | 18.33 | 19.50 |
|  |       | 1   | 99 | 18.22 | 18.05 | 18.25 | 19.50 |
|  |       | 50  | 0  | 17.37 | 17.08 | 17.15 | 18.50 |
|  |       | 50  | 25 | 17.50 | 16.97 | 17.22 | 18.50 |
|  |       | 50  | 50 | 17.30 | 16.97 | 17.19 | 18.50 |
|  |       | 100 | 0  | 17.35 | 17.00 | 17.25 | 18.50 |

| LTE Band 42a Ant2 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 42115                | 42590   | 43065   |         |
| 5MHz                         | QPSK       | 1       | 0         | 18.34                | 17.79   | 17.86   | 19.50   |
|                              |            | 1       | 13        | 18.31                | 17.92   | 17.88   | 19.50   |
|                              |            | 1       | 24        | 18.17                | 17.76   | 17.87   | 19.50   |
|                              |            | 12      | 0         | 18.24                | 17.81   | 17.95   | 19.50   |
|                              |            | 12      | 6         | 18.31                | 17.82   | 17.98   | 19.50   |
|                              |            | 12      | 13        | 18.25                | 17.87   | 17.92   | 19.50   |
|                              |            | 25      | 0         | 18.29                | 17.88   | 18.04   | 19.50   |
|                              | 16QAM      | 1       | 0         | 18.23                | 18.03   | 17.99   | 19.50   |
|                              |            | 1       | 13        | 18.17                | 17.63   | 18.30   | 19.50   |
|                              |            | 1       | 24        | 18.21                | 17.61   | 18.10   | 19.50   |
|                              |            | 12      | 0         | 18.31                | 17.86   | 17.85   | 19.50   |
|                              |            | 12      | 6         | 18.24                | 17.90   | 17.83   | 19.50   |
|                              |            | 12      | 13        | 18.17                | 17.75   | 17.84   | 19.50   |
|                              |            | 25      | 0         | 18.24                | 17.79   | 17.81   | 19.50   |
|                              | 64QAM      | 1       | 0         | 18.17                | 17.79   | 17.90   | 19.50   |
|                              |            | 1       | 13        | 18.30                | 17.76   | 17.62   | 19.50   |
|                              |            | 1       | 24        | 18.06                | 17.79   | 17.79   | 19.50   |
|                              |            | 12      | 0         | 17.38                | 16.98   | 16.84   | 18.50   |
|                              |            | 12      | 6         | 17.46                | 16.79   | 17.03   | 18.50   |

|           |            | 12      | 13        | 17.23   | 16.96   | 16.78   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.35   | 16.89   | 16.91   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 42140   | 42590   | 43040   |         |
| 10MHz     | QPSK       | 1       | 0         | 18.35   | 17.90   | 18.12   | 19.50   |
|           |            | 1       | 25        | 18.18   | 17.91   | 18.29   | 19.50   |
|           |            | 1       | 49        | 18.21   | 18.12   | 18.14   | 19.50   |
|           |            | 25      | 0         | 18.24   | 17.90   | 18.19   | 19.50   |
|           |            | 25      | 13        | 18.20   | 18.02   | 18.34   | 19.50   |
|           |            | 25      | 25        | 18.19   | 17.95   | 18.28   | 19.50   |
|           |            | 50      | 0         | 18.28   | 18.07   | 18.34   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.17   | 17.93   | 18.15   | 19.50   |
|           |            | 1       | 25        | 18.23   | 17.81   | 18.17   | 19.50   |
|           |            | 1       | 49        | 18.33   | 17.90   | 18.01   | 19.50   |
|           |            | 25      | 0         | 18.28   | 17.86   | 18.25   | 19.50   |
|           |            | 25      | 13        | 18.20   | 17.98   | 18.26   | 19.50   |
|           |            | 25      | 25        | 18.30   | 18.14   | 18.19   | 19.50   |
|           |            | 50      | 0         | 18.28   | 18.03   | 18.17   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.93   | 17.73   | 17.99   | 19.50   |
|           |            | 1       | 25        | 18.25   | 18.16   | 17.95   | 19.50   |
|           |            | 1       | 49        | 17.95   | 17.95   | 18.20   | 19.50   |
|           |            | 25      | 0         | 17.42   | 16.97   | 17.13   | 18.50   |
|           |            | 25      | 13        | 17.43   | 17.07   | 17.30   | 18.50   |
|           |            | 25      | 25        | 17.41   | 17.04   | 17.28   | 18.50   |
|           |            | 50      | 0         | 17.48   | 17.03   | 17.23   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 42165   | 42590   | 43015   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.25   | 17.74   | 17.89   | 19.50   |
|           |            | 1       | 38        | 18.06   | 17.67   | 17.97   | 19.50   |
|           |            | 1       | 74        | 18.00   | 17.96   | 18.01   | 19.50   |
|           |            | 36      | 0         | 18.11   | 17.85   | 17.98   | 19.50   |
|           |            | 36      | 18        | 18.18   | 17.81   | 17.93   | 19.50   |
|           |            | 36      | 39        | 18.15   | 17.83   | 18.04   | 19.50   |
|           |            | 75      | 0         | 18.19   | 17.91   | 18.14   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.20   | 17.67   | 18.04   | 19.50   |
|           |            | 1       | 38        | 18.12   | 17.89   | 18.02   | 19.50   |
|           |            | 1       | 74        | 18.22   | 17.94   | 18.19   | 19.50   |
|           |            | 36      | 0         | 18.17   | 17.90   | 18.17   | 19.50   |
|           |            | 36      | 18        | 18.23   | 17.93   | 17.97   | 19.50   |
|           |            | 36      | 39        | 18.23   | 17.89   | 18.11   | 19.50   |
|           |            | 75      | 0         | 18.23   | 17.87   | 17.94   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.71   | 17.94   | 18.15   | 19.50   |

|           |            | 1       | 38        | 17.98   | 17.70   | 18.13   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 74        | 18.15   | 18.17   | 18.01   | 19.50   |
|           |            | 36      | 0         | 17.24   | 16.83   | 17.00   | 18.50   |
|           |            | 36      | 18        | 17.15   | 16.91   | 17.05   | 18.50   |
|           |            | 36      | 39        | 17.22   | 16.80   | 17.12   | 18.50   |
|           |            | 75      | 0         | 17.16   | 16.97   | 17.11   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 42190   | 42590   | 42990   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.51   | 17.95   | 17.92   | 19.50   |
|           |            | 1       | 50        | 18.45   | 17.82   | 17.90   | 19.50   |
|           |            | 1       | 99        | 18.13   | 17.73   | 18.16   | 19.50   |
|           |            | 50      | 0         | 18.29   | 17.88   | 17.97   | 19.50   |
|           |            | 50      | 25        | 18.21   | 17.85   | 18.13   | 19.50   |
|           |            | 50      | 50        | 18.11   | 17.90   | 18.05   | 19.50   |
|           |            | 100     | 0         | 18.18   | 17.85   | 18.04   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.41   | 18.11   | 17.98   | 19.50   |
|           |            | 1       | 50        | 18.28   | 17.99   | 18.09   | 19.50   |
|           |            | 1       | 99        | 18.27   | 17.55   | 17.80   | 19.50   |
|           |            | 50      | 0         | 18.29   | 17.92   | 17.95   | 19.50   |
|           |            | 50      | 25        | 18.31   | 17.90   | 18.09   | 19.50   |
|           |            | 50      | 50        | 18.10   | 17.94   | 17.98   | 19.50   |
|           |            | 100     | 0         | 18.26   | 17.95   | 18.02   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.30   | 18.07   | 17.78   | 19.50   |
|           |            | 1       | 50        | 18.38   | 17.85   | 18.09   | 19.50   |
|           |            | 1       | 99        | 18.25   | 17.81   | 18.32   | 19.50   |
|           |            | 50      | 0         | 17.33   | 16.88   | 16.96   | 18.50   |
|           |            | 50      | 25        | 17.27   | 16.94   | 17.16   | 18.50   |
|           |            | 50      | 50        | 17.12   | 16.88   | 17.17   | 18.50   |
|           |            | 100     | 0         | 17.25   | 16.97   | 17.18   | 18.50   |

| LTE Band 43d Ant2 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 44615                | 45090   | 45565   |         |
| 5MHz                         | QPSK       | 1       | 0         | 20.19                | 20.08   | 19.66   | 21.50   |
|                              |            | 1       | 13        | 20.22                | 20.05   | 19.70   | 21.50   |
|                              |            | 1       | 24        | 20.19                | 20.11   | 19.68   | 21.50   |
|                              |            | 12      | 0         | 19.24                | 19.17   | 18.72   | 20.50   |
|                              |            | 12      | 6         | 19.24                | 19.20   | 18.86   | 20.50   |
|                              |            | 12      | 13        | 19.21                | 19.14   | 18.71   | 20.50   |
|                              |            | 25      | 0         | 19.26                | 19.14   | 18.74   | 20.50   |

|           | 16QAM      | 1       | 0         | 19.25   | 19.36   | 18.69   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 19.38   | 19.31   | 18.78   | 20.50   |
|           |            | 1       | 24        | 19.34   | 19.47   | 18.76   | 20.50   |
|           |            | 12      | 0         | 18.23   | 18.16   | 17.77   | 19.50   |
|           |            | 12      | 6         | 18.24   | 18.20   | 17.71   | 19.50   |
|           |            | 12      | 13        | 18.30   | 18.14   | 17.78   | 19.50   |
|           |            | 25      | 0         | 18.18   | 18.07   | 17.71   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.50   | 18.42   | 17.73   | 19.50   |
|           |            | 1       | 13        | 18.53   | 17.84   | 17.93   | 19.50   |
|           |            | 1       | 24        | 18.49   | 17.80   | 17.69   | 19.50   |
|           |            | 12      | 0         | 17.28   | 17.23   | 16.69   | 18.50   |
|           |            | 12      | 6         | 17.31   | 17.21   | 16.74   | 18.50   |
|           |            | 12      | 13        | 17.35   | 17.22   | 16.81   | 18.50   |
|           |            | 25      | 0         | 17.12   | 17.18   | 16.77   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44640   | 45090   | 45540   |         |
| 10MHz     | QPSK       | 1       | 0         | 20.23   | 20.09   | 19.73   | 21.50   |
|           |            | 1       | 25        | 20.19   | 20.16   | 19.71   | 21.50   |
|           |            | 1       | 49        | 20.14   | 20.12   | 19.66   | 21.50   |
|           |            | 25      | 0         | 19.28   | 19.21   | 18.83   | 20.50   |
|           |            | 25      | 13        | 19.26   | 19.19   | 18.79   | 20.50   |
|           |            | 25      | 25        | 19.14   | 19.18   | 18.77   | 20.50   |
|           |            | 50      | 0         | 19.16   | 19.18   | 18.79   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.39   | 19.08   | 18.77   | 20.50   |
|           |            | 1       | 25        | 19.30   | 19.02   | 18.72   | 20.50   |
|           |            | 1       | 49        | 19.39   | 18.95   | 18.52   | 20.50   |
|           |            | 25      | 0         | 18.24   | 18.20   | 17.81   | 19.50   |
|           |            | 25      | 13        | 18.28   | 18.24   | 17.81   | 19.50   |
|           |            | 25      | 25        | 18.23   | 18.19   | 17.74   | 19.50   |
|           |            | 50      | 0         | 18.20   | 18.14   | 17.73   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.79   | 17.67   | 18.06   | 19.50   |
|           |            | 1       | 25        | 17.75   | 17.70   | 17.64   | 19.50   |
|           |            | 1       | 49        | 17.74   | 18.49   | 17.57   | 19.50   |
|           |            | 25      | 0         | 17.28   | 17.18   | 16.74   | 18.50   |
|           |            | 25      | 13        | 17.31   | 17.15   | 16.79   | 18.50   |
|           |            | 25      | 25        | 17.18   | 17.11   | 16.78   | 18.50   |
|           |            | 50      | 0         | 17.17   | 17.18   | 16.78   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44665   | 45090   | 45515   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.09   | 20.04   | 19.81   | 21.50   |
|           |            | 1       | 38        | 20.02   | 20.06   | 19.62   | 21.50   |
|           |            | 1       | 74        | 20.05   | 20.01   | 19.58   | 21.50   |

|           |            | 36      | 0         | 19.06   | 19.08   | 18.69   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 18        | 19.01   | 19.05   | 18.67   | 20.50   |
|           |            | 36      | 39        | 18.96   | 19.08   | 18.63   | 20.50   |
|           |            | 75      | 0         | 18.99   | 19.07   | 18.68   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.04   | 18.88   | 18.87   | 20.50   |
|           |            | 1       | 38        | 19.26   | 19.05   | 18.88   | 20.50   |
|           |            | 1       | 74        | 19.08   | 19.10   | 19.09   | 20.50   |
|           |            | 36      | 0         | 18.11   | 18.03   | 17.68   | 19.50   |
|           |            | 36      | 18        | 18.05   | 18.05   | 17.68   | 19.50   |
|           |            | 36      | 39        | 18.01   | 18.03   | 17.66   | 19.50   |
|           |            | 75      | 0         | 17.99   | 18.03   | 17.67   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.46   | 18.16   | 17.99   | 19.50   |
|           |            | 1       | 38        | 17.62   | 18.11   | 18.01   | 19.50   |
|           |            | 1       | 74        | 18.32   | 18.45   | 17.62   | 19.50   |
|           |            | 36      | 0         | 17.16   | 17.03   | 16.77   | 18.50   |
|           |            | 36      | 18        | 17.03   | 17.04   | 16.68   | 18.50   |
|           |            | 36      | 39        | 17.04   | 17.03   | 16.71   | 18.50   |
|           |            | 75      | 0         | 17.02   | 17.02   | 16.67   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44690   | 45090   | 45490   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.04   | 20.24   | 19.75   | 21.50   |
|           |            | 1       | 50        | 19.98   | 20.06   | 19.66   | 21.50   |
|           |            | 1       | 99        | 20.03   | 19.89   | 19.61   | 21.50   |
|           |            | 50      | 0         | 19.11   | 19.18   | 18.71   | 20.50   |
|           |            | 50      | 25        | 19.09   | 19.06   | 18.70   | 20.50   |
|           |            | 50      | 50        | 19.12   | 19.03   | 18.67   | 20.50   |
|           |            | 100     | 0         | 19.08   | 19.14   | 18.76   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.11   | 19.24   | 18.90   | 20.50   |
|           |            | 1       | 50        | 19.09   | 18.84   | 18.92   | 20.50   |
|           |            | 1       | 99        | 19.07   | 18.80   | 18.86   | 20.50   |
|           |            | 50      | 0         | 18.06   | 18.03   | 17.71   | 19.50   |
|           |            | 50      | 25        | 18.04   | 18.08   | 17.73   | 19.50   |
|           |            | 50      | 50        | 18.04   | 18.04   | 17.74   | 19.50   |
|           |            | 100     | 0         | 18.11   | 18.09   | 17.71   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.93   | 18.27   | 18.06   | 19.50   |
|           |            | 1       | 50        | 18.25   | 17.67   | 17.51   | 19.50   |
|           |            | 1       | 99        | 18.14   | 17.93   | 17.84   | 19.50   |
|           |            | 50      | 0         | 16.97   | 17.07   | 16.78   | 18.50   |
|           |            | 50      | 25        | 17.11   | 17.14   | 16.70   | 18.50   |
|           |            | 50      | 50        | 16.98   | 17.05   | 16.70   | 18.50   |
|           |            | 100     | 0         | 17.05   | 17.06   | 16.73   | 18.50   |

| LTE Band 43d Ant2 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 44615                | 45090   | 45565   |         |
| 5MHz                          | QPSK       | 1       | 0         | 18.89                | 18.59   | 18.29   | 20.00   |
|                               |            | 1       | 13        | 18.73                | 18.55   | 18.35   | 20.00   |
|                               |            | 1       | 24        | 18.86                | 18.67   | 18.26   | 20.00   |
|                               |            | 12      | 0         | 18.8                 | 18.79   | 18.39   | 20.00   |
|                               |            | 12      | 6         | 18.8                 | 18.75   | 18.52   | 20.00   |
|                               |            | 12      | 13        | 18.84                | 18.69   | 18.38   | 20.00   |
|                               |            | 25      | 0         | 18.65                | 18.79   | 18.43   | 20.00   |
|                               | 16QAM      | 1       | 0         | 18.77                | 18.55   | 18.22   | 20.00   |
|                               |            | 1       | 13        | 18.7                 | 18.61   | 18.3    | 20.00   |
|                               |            | 1       | 24        | 18.61                | 18.58   | 18.34   | 20.00   |
|                               |            | 12      | 0         | 18.43                | 18.22   | 17.87   | 19.50   |
|                               |            | 12      | 6         | 18.3                 | 18.28   | 17.73   | 19.50   |
|                               |            | 12      | 13        | 18.4                 | 18.25   | 17.92   | 19.50   |
|                               |            | 25      | 0         | 18.24                | 18.26   | 17.88   | 19.50   |
|                               | 64QAM      | 1       | 0         | 18.52                | 18.58   | 17.83   | 19.50   |
|                               |            | 1       | 13        | 18.61                | 17.90   | 18.09   | 19.50   |
|                               |            | 1       | 24        | 18.66                | 17.84   | 17.71   | 19.50   |
|                               |            | 12      | 0         | 17.45                | 17.29   | 16.85   | 18.50   |
|                               |            | 12      | 6         | 17.43                | 17.25   | 16.78   | 18.50   |
|                               |            | 12      | 13        | 17.48                | 17.29   | 16.97   | 18.50   |
|                               |            | 25      | 0         | 17.27                | 17.31   | 16.94   | 18.50   |
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 44640                | 45090   | 45540   |         |
| 10MHz                         | QPSK       | 1       | 0         | 18.75                | 18.78   | 18.27   | 20.00   |
|                               |            | 1       | 25        | 18.79                | 18.81   | 18.32   | 20.00   |
|                               |            | 1       | 49        | 18.79                | 18.67   | 18.17   | 20.00   |
|                               |            | 25      | 0         | 18.77                | 18.79   | 18.46   | 20.00   |
|                               |            | 25      | 13        | 18.79                | 18.79   | 18.46   | 20.00   |
|                               |            | 25      | 25        | 18.74                | 18.79   | 18.38   | 20.00   |
|                               |            | 50      | 0         | 18.73                | 18.7    | 18.39   | 20.00   |
|                               | 16QAM      | 1       | 0         | 18.77                | 18.7    | 18.46   | 20.00   |
|                               |            | 1       | 25        | 18.77                | 18.64   | 18.24   | 20.00   |
|                               |            | 1       | 49        | 18.65                | 18.63   | 18.1    | 20.00   |
|                               |            | 25      | 0         | 18.4                 | 18.35   | 17.99   | 19.50   |
|                               |            | 25      | 13        | 18.39                | 18.43   | 17.91   | 19.50   |
|                               |            | 25      | 25        | 18.24                | 18.29   | 17.82   | 19.50   |



|           | 64QAM      | 50      | 0         | 18.29   | 18.15   | 17.83   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 17.94   | 17.84   | 18.09   | 19.50   |
|           |            | 1       | 25        | 17.83   | 17.88   | 17.76   | 19.50   |
|           |            | 1       | 49        | 17.80   | 18.50   | 17.65   | 19.50   |
|           |            | 25      | 0         | 17.42   | 17.33   | 16.76   | 18.50   |
|           |            | 25      | 13        | 17.32   | 17.34   | 16.92   | 18.50   |
|           |            | 25      | 25        | 17.36   | 17.26   | 16.96   | 18.50   |
|           |            | 50      | 0         | 17.25   | 17.35   | 16.91   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44665   | 45090   | 45515   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.77   | 18.72   | 18.35   | 20.00   |
|           |            | 1       | 38        | 18.71   | 18.73   | 18.29   | 20.00   |
|           |            | 1       | 74        | 18.71   | 18.54   | 18.13   | 20.00   |
|           |            | 36      | 0         | 18.72   | 18.6    | 18.26   | 20.00   |
|           |            | 36      | 18        | 18.65   | 18.68   | 18.27   | 20.00   |
|           |            | 36      | 39        | 18.57   | 18.73   | 18.31   | 20.00   |
|           |            | 75      | 0         | 18.58   | 18.65   | 18.21   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.55   | 18.41   | 18.39   | 20.00   |
|           |            | 1       | 38        | 18.51   | 18.64   | 18.47   | 20.00   |
|           |            | 1       | 74        | 18.7    | 18.75   | 18.76   | 20.00   |
|           |            | 36      | 0         | 18.24   | 18.17   | 17.8    | 19.50   |
|           |            | 36      | 18        | 18.09   | 18.18   | 17.74   | 19.50   |
|           |            | 36      | 39        | 18.21   | 18.06   | 17.72   | 19.50   |
|           |            | 75      | 0         | 18.01   | 18.13   | 17.8    | 19.50   |
|           | 64QAM      | 1       | 0         | 18.54   | 18.24   | 18.02   | 19.50   |
|           |            | 1       | 38        | 17.72   | 18.26   | 18.02   | 19.50   |
|           |            | 1       | 74        | 18.51   | 18.57   | 17.69   | 19.50   |
|           |            | 36      | 0         | 17.19   | 17.21   | 16.84   | 18.50   |
|           |            | 36      | 18        | 17.08   | 17.22   | 16.68   | 18.50   |
|           |            | 36      | 39        | 17.14   | 17.14   | 16.72   | 18.50   |
|           |            | 75      | 0         | 17.17   | 17.19   | 16.85   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44690   | 45090   | 45490   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.57   | 18.99   | 18.33   | 20.00   |
|           |            | 1       | 50        | 18.65   | 18.71   | 18.23   | 20.00   |
|           |            | 1       | 99        | 18.64   | 18.51   | 18.2    | 20.00   |
|           |            | 50      | 0         | 18.81   | 18.86   | 18.35   | 20.00   |
|           |            | 50      | 25        | 18.69   | 18.72   | 18.26   | 20.00   |
|           |            | 50      | 50        | 18.71   | 18.62   | 18.2    | 20.00   |
|           |            | 100     | 0         | 18.73   | 18.71   | 18.31   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.73   | 18.8    | 18.55   | 20.00   |
|           |            | 1       | 50        | 18.76   | 18.39   | 18.47   | 20.00   |

|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  |       | 1   | 99 | 18.7  | 18.33 | 18.5  | 20.00 |
|  |       | 50  | 0  | 18.11 | 18.03 | 17.77 | 19.50 |
|  |       | 50  | 25 | 18.1  | 18.24 | 17.77 | 19.50 |
|  |       | 50  | 50 | 18.17 | 18.1  | 17.82 | 19.50 |
|  |       | 100 | 0  | 18.24 | 18.29 | 17.82 | 19.50 |
|  | 64QAM | 1   | 0  | 17.95 | 18.28 | 18.18 | 19.50 |
|  |       | 1   | 50 | 18.45 | 17.79 | 17.61 | 19.50 |
|  |       | 1   | 99 | 18.28 | 17.98 | 17.91 | 19.50 |
|  |       | 50  | 0  | 17.02 | 17.25 | 16.86 | 18.50 |
|  |       | 50  | 25 | 17.26 | 17.26 | 16.87 | 18.50 |
|  |       | 50  | 50 | 17.05 | 17.14 | 16.87 | 18.50 |
|  |       | 100 | 0  | 17.17 | 17.17 | 16.80 | 18.50 |

| LTE Band 43d Ant2 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 44615                | 45090   | 45565   |         |
| 5MHz                         | QPSK       | 1       | 0         | 18.27                | 18.23   | 17.68   | 19.50   |
|                              |            | 1       | 13        | 18.12                | 18.09   | 17.78   | 19.50   |
|                              |            | 1       | 24        | 18.17                | 18.21   | 17.81   | 19.50   |
|                              |            | 12      | 0         | 18.15                | 18.24   | 17.8    | 19.50   |
|                              |            | 12      | 6         | 18.25                | 18.26   | 17.95   | 19.50   |
|                              |            | 12      | 13        | 18.18                | 18.22   | 17.87   | 19.50   |
|                              |            | 25      | 0         | 18.08                | 18.16   | 17.89   | 19.50   |
|                              | 16QAM      | 1       | 0         | 18.21                | 18.1    | 17.82   | 19.50   |
|                              |            | 1       | 13        | 18.25                | 18.24   | 17.97   | 19.50   |
|                              |            | 1       | 24        | 18.22                | 18.26   | 17.83   | 19.50   |
|                              |            | 12      | 0         | 18.13                | 18.12   | 17.8    | 19.50   |
|                              |            | 12      | 6         | 18.14                | 18.26   | 17.88   | 19.50   |
|                              |            | 12      | 13        | 18.2                 | 18.22   | 17.87   | 19.50   |
|                              |            | 25      | 0         | 18.17                | 18.24   | 17.72   | 19.50   |
|                              | 64QAM      | 1       | 0         | 18.08                | 18.22   | 17.74   | 19.50   |
|                              |            | 1       | 13        | 18.25                | 17.88   | 18.08   | 19.50   |
|                              |            | 1       | 24        | 18.15                | 17.85   | 17.79   | 19.50   |
|                              |            | 12      | 0         | 17.29                | 17.32   | 16.81   | 18.50   |
|                              |            | 12      | 6         | 17.43                | 17.33   | 16.89   | 18.50   |
|                              |            | 12      | 13        | 17.53                | 17.29   | 16.83   | 18.50   |
|                              |            | 25      | 0         | 17.22                | 17.22   | 16.93   | 18.50   |
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 44640                | 45090   | 45540   |         |
| 10MHz                        | QPSK       | 1       | 0         | 18.32                | 18.22   | 17.83   | 19.50   |

|           |            | 1       | 25        | 18.15   | 18.19   | 17.84   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 49        | 18.18   | 18.26   | 17.7    | 19.50   |
|           |            | 25      | 0         | 18.27   | 18.25   | 17.95   | 19.50   |
|           |            | 25      | 13        | 18.3    | 18.31   | 17.9    | 19.50   |
|           |            | 25      | 25        | 18.17   | 18.26   | 17.94   | 19.50   |
|           |            | 50      | 0         | 18.26   | 18.25   | 17.85   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.19   | 18.22   | 17.85   | 19.50   |
|           |            | 1       | 25        | 18.3    | 18.1    | 17.78   | 19.50   |
|           |            | 1       | 49        | 18.17   | 18.12   | 17.61   | 19.50   |
|           |            | 25      | 0         | 18.26   | 18.28   | 17.97   | 19.50   |
|           |            | 25      | 13        | 18.26   | 18.21   | 17.85   | 19.50   |
|           |            | 25      | 25        | 18.26   | 18.3    | 17.92   | 19.50   |
|           |            | 50      | 0         | 18.23   | 18.3    | 17.74   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.81   | 17.67   | 18.24   | 19.50   |
|           |            | 1       | 25        | 17.87   | 17.76   | 17.65   | 19.50   |
|           |            | 1       | 49        | 17.94   | 18.19   | 17.70   | 19.50   |
|           |            | 25      | 0         | 17.40   | 17.19   | 16.81   | 18.50   |
|           |            | 25      | 13        | 17.45   | 17.19   | 16.86   | 18.50   |
|           |            | 25      | 25        | 17.34   | 17.21   | 16.90   | 18.50   |
|           |            | 50      | 0         | 17.37   | 17.19   | 16.78   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44665   | 45090   | 45515   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.18   | 18.23   | 17.93   | 19.50   |
|           |            | 1       | 38        | 18.16   | 18.14   | 17.64   | 19.50   |
|           |            | 1       | 74        | 18.08   | 18.14   | 17.59   | 19.50   |
|           |            | 36      | 0         | 18.12   | 18.1    | 17.8    | 19.50   |
|           |            | 36      | 18        | 18.01   | 18.15   | 17.77   | 19.50   |
|           |            | 36      | 39        | 18.13   | 18.12   | 17.79   | 19.50   |
|           |            | 75      | 0         | 18.06   | 18.1    | 17.88   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.13   | 18.01   | 17.96   | 19.50   |
|           |            | 1       | 38        | 18.18   | 18.21   | 17.9    | 19.50   |
|           |            | 1       | 74        | 18.14   | 18.21   | 18.18   | 19.50   |
|           |            | 36      | 0         | 18.16   | 18.07   | 17.85   | 19.50   |
|           |            | 36      | 18        | 18.21   | 18.1    | 17.78   | 19.50   |
|           |            | 36      | 39        | 18.16   | 18.21   | 17.71   | 19.50   |
|           |            | 75      | 0         | 18.09   | 18.2    | 17.72   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.20   | 18.19   | 18.06   | 19.50   |
|           |            | 1       | 38        | 17.63   | 18.19   | 18.18   | 19.50   |
|           |            | 1       | 74        | 18.16   | 18.16   | 17.71   | 19.50   |
|           |            | 36      | 0         | 17.31   | 17.11   | 16.95   | 18.50   |
|           |            | 36      | 18        | 17.12   | 17.17   | 16.80   | 18.50   |
|           |            | 36      | 39        | 17.13   | 17.04   | 16.80   | 18.50   |

|           |            | 75      | 0         | 17.19   | 17.13   | 16.73   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44690   | 45090   | 45490   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.14   | 18.37   | 17.91   | 19.50   |
|           |            | 1       | 50        | 18.05   | 18.22   | 17.79   | 19.50   |
|           |            | 1       | 99        | 18.09   | 18.01   | 17.81   | 19.50   |
|           |            | 50      | 0         | 18.22   | 18.35   | 17.8    | 19.50   |
|           |            | 50      | 25        | 18.12   | 18.08   | 17.82   | 19.50   |
|           |            | 50      | 50        | 18.23   | 18.22   | 17.81   | 19.50   |
|           |            | 100     | 0         | 18.12   | 18.21   | 17.94   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.17   | 18.28   | 17.93   | 19.50   |
|           |            | 1       | 50        | 18.26   | 18.02   | 18.11   | 19.50   |
|           |            | 1       | 99        | 18.18   | 17.87   | 18.05   | 19.50   |
|           |            | 50      | 0         | 18.22   | 18.05   | 17.8    | 19.50   |
|           |            | 50      | 25        | 18.23   | 18.27   | 17.81   | 19.50   |
|           |            | 50      | 50        | 18.23   | 18.15   | 17.75   | 19.50   |
|           |            | 100     | 0         | 18.18   | 18.26   | 17.76   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.00   | 17.99   | 18.22   | 19.50   |
|           |            | 1       | 50        | 18.07   | 17.76   | 17.56   | 19.50   |
|           |            | 1       | 99        | 18.01   | 18.09   | 17.90   | 19.50   |
|           |            | 50      | 0         | 17.01   | 17.27   | 16.91   | 18.50   |
|           |            | 50      | 25        | 17.12   | 17.27   | 16.79   | 18.50   |
|           |            | 50      | 50        | 17.09   | 17.12   | 16.83   | 18.50   |
|           |            | 100     | 0         | 17.18   | 17.09   | 16.76   | 18.50   |

| LTE Band 43d Ant0 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 44115                | 44215   | 44315   |         |
| 5MHz                         | QPSK       | 1       | 0         | 18.78                | 18.96   | 18.87   | 19.50   |
|                              |            | 1       | 13        | 18.81                | 18.48   | 18.76   | 19.50   |
|                              |            | 1       | 24        | 18.66                | 18.67   | 18.76   | 19.50   |
|                              |            | 12      | 0         | 18.79                | 18.74   | 18.78   | 19.50   |
|                              |            | 12      | 6         | 18.75                | 18.8    | 18.61   | 19.50   |
|                              |            | 12      | 13        | 18.68                | 18.63   | 18.65   | 19.50   |
|                              |            | 25      | 0         | 18.67                | 18.75   | 18.89   | 19.50   |
|                              | 16QAM      | 1       | 0         | 18.47                | 18.39   | 18.74   | 19.50   |
|                              |            | 1       | 13        | 18.9                 | 18.58   | 18.77   | 19.50   |
|                              |            | 1       | 24        | 18.81                | 18.43   | 18.75   | 19.50   |
|                              |            | 12      | 0         | 18.58                | 18.36   | 18.74   | 19.50   |
|                              |            | 12      | 6         | 18.76                | 18.68   | 18.74   | 19.50   |

|           |            | 12      | 13        | 18.73   | 18.37   | 18.52   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 18.65   | 18.49   | 18.67   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.68   | 18.60   | 18.51   | 19.50   |
|           |            | 1       | 13        | 18.85   | 18.75   | 18.71   | 19.50   |
|           |            | 1       | 24        | 18.66   | 18.63   | 18.66   | 19.50   |
|           |            | 12      | 0         | 18.07   | 18.02   | 18.03   | 18.50   |
|           |            | 12      | 6         | 18.20   | 18.10   | 18.13   | 18.50   |
|           |            | 12      | 13        | 18.02   | 17.87   | 18.03   | 18.50   |
|           |            | 25      | 0         | 17.97   | 17.80   | 18.03   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44140   | 44215   | 44290   |         |
| 10MHz     | QPSK       | 1       | 0         | 18.79   | 18.8    | 18.89   | 19.50   |
|           |            | 1       | 25        | 18.83   | 18.51   | 18.76   | 19.50   |
|           |            | 1       | 49        | 18.71   | 18.6    | 18.7    | 19.50   |
|           |            | 25      | 0         | 18.72   | 18.78   | 18.79   | 19.50   |
|           |            | 25      | 13        | 18.58   | 18.8    | 18.7    | 19.50   |
|           |            | 25      | 25        | 18.77   | 18.63   | 18.75   | 19.50   |
|           |            | 50      | 0         | 18.83   | 18.75   | 18.71   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.51   | 18.44   | 18.67   | 19.50   |
|           |            | 1       | 25        | 18.84   | 18.5    | 18.68   | 19.50   |
|           |            | 1       | 49        | 18.81   | 18.4    | 18.74   | 19.50   |
|           |            | 25      | 0         | 18.69   | 18.43   | 18.76   | 19.50   |
|           |            | 25      | 13        | 18.66   | 18.78   | 18.66   | 19.50   |
|           |            | 25      | 25        | 18.66   | 18.51   | 18.62   | 19.50   |
|           |            | 50      | 0         | 18.62   | 18.43   | 18.53   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.71   | 18.65   | 18.51   | 19.50   |
|           |            | 1       | 25        | 18.76   | 18.77   | 18.62   | 19.50   |
|           |            | 1       | 49        | 18.70   | 18.59   | 18.72   | 19.50   |
|           |            | 25      | 0         | 18.05   | 18.09   | 18.09   | 18.50   |
|           |            | 25      | 13        | 18.16   | 18.05   | 18.24   | 18.50   |
|           |            | 25      | 25        | 18.02   | 18.03   | 17.90   | 18.50   |
|           |            | 50      | 0         | 17.93   | 17.87   | 18.07   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44165   | 44215   | 44265   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.85   | 18.95   | 18.77   | 19.50   |
|           |            | 1       | 38        | 18.73   | 18.55   | 18.69   | 19.50   |
|           |            | 1       | 74        | 18.82   | 18.72   | 18.62   | 19.50   |
|           |            | 36      | 0         | 18.75   | 18.77   | 18.82   | 19.50   |
|           |            | 36      | 18        | 18.61   | 18.77   | 18.62   | 19.50   |
|           |            | 36      | 39        | 18.79   | 18.62   | 18.79   | 19.50   |
|           |            | 75      | 0         | 18.79   | 18.8    | 18.7    | 19.50   |
|           | 16QAM      | 1       | 0         | 18.53   | 18.47   | 18.6    | 19.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 38        | 18.79   | 18.58   | 18.64   | 19.50   |
|           |            | 1       | 74        | 18.73   | 18.44   | 18.77   | 19.50   |
|           |            | 36      | 0         | 18.72   | 18.4    | 18.7    | 19.50   |
|           |            | 36      | 18        | 18.77   | 18.78   | 18.82   | 19.50   |
|           |            | 36      | 39        | 18.69   | 18.47   | 18.65   | 19.50   |
|           |            | 75      | 0         | 18.53   | 18.48   | 18.57   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.65   | 18.59   | 18.64   | 19.50   |
|           |            | 1       | 38        | 18.81   | 18.71   | 18.59   | 19.50   |
|           |            | 1       | 74        | 18.61   | 18.68   | 18.61   | 19.50   |
|           |            | 36      | 0         | 18.16   | 18.12   | 18.20   | 18.50   |
|           |            | 36      | 18        | 18.03   | 17.97   | 18.14   | 18.50   |
|           |            | 36      | 39        | 18.01   | 17.88   | 18.04   | 18.50   |
|           |            | 75      | 0         | 17.99   | 17.89   | 18.04   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 44190   | 44215   | 44240   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.95   | 18.97   | 18.93   | 19.50   |
|           |            | 1       | 50        | 18.91   | 18.64   | 18.78   | 19.50   |
|           |            | 1       | 99        | 18.85   | 18.76   | 18.79   | 19.50   |
|           |            | 50      | 0         | 18.85   | 18.95   | 18.92   | 19.50   |
|           |            | 50      | 25        | 18.77   | 18.82   | 18.72   | 19.50   |
|           |            | 50      | 50        | 18.84   | 18.75   | 18.84   | 19.50   |
|           |            | 100     | 0         | 18.84   | 18.91   | 18.9    | 19.50   |
|           | 16QAM      | 1       | 0         | 18.63   | 18.52   | 18.79   | 19.50   |
|           |            | 1       | 50        | 18.93   | 18.7    | 18.82   | 19.50   |
|           |            | 1       | 99        | 18.89   | 18.58   | 18.88   | 19.50   |
|           |            | 50      | 0         | 18.78   | 18.56   | 18.81   | 19.50   |
|           |            | 50      | 25        | 18.86   | 18.86   | 18.84   | 19.50   |
|           |            | 50      | 50        | 18.84   | 18.52   | 18.69   | 19.50   |
|           |            | 100     | 0         | 18.74   | 18.61   | 18.68   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.84   | 18.72   | 18.72   | 19.50   |
|           |            | 1       | 50        | 18.88   | 18.91   | 18.80   | 19.50   |
|           |            | 1       | 99        | 18.72   | 18.78   | 18.82   | 19.50   |
|           |            | 50      | 0         | 18.17   | 18.20   | 18.23   | 18.50   |
|           |            | 50      | 25        | 18.22   | 18.11   | 18.28   | 18.50   |
|           |            | 50      | 50        | 18.11   | 18.06   | 18.06   | 18.50   |
|           |            | 100     | 0         | 18.12   | 17.98   | 18.13   | 18.50   |

| LTE Band 48 Ant2 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Tune up |
|                             |            |         |           | 55265                | 55810   | 56170   | 56715   |         |

| 5MHz      | QPSK       | 1       | 0         | 20.01   | 21.23   | 21.04   | 21.06   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|
|           |            | 1       | 13        | 20.00   | 21.18   | 21.05   | 21.12   | 21.50   |
|           |            | 1       | 24        | 20.08   | 21.22   | 21.16   | 21.08   | 21.50   |
|           |            | 12      | 0         | 19.23   | 20.31   | 20.21   | 20.25   | 20.50   |
|           |            | 12      | 6         | 19.14   | 20.33   | 20.21   | 20.23   | 20.50   |
|           |            | 12      | 13        | 19.15   | 20.25   | 20.23   | 20.14   | 20.50   |
|           |            | 25      | 0         | 19.18   | 20.23   | 19.99   | 20.19   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.15   | 20.25   | 20.26   | 20.08   | 20.50   |
|           |            | 1       | 13        | 19.32   | 20.30   | 20.36   | 20.12   | 20.50   |
|           |            | 1       | 24        | 19.22   | 20.35   | 20.18   | 20.23   | 20.50   |
|           |            | 12      | 0         | 18.12   | 19.24   | 19.03   | 19.17   | 19.50   |
|           |            | 12      | 6         | 18.21   | 19.30   | 19.22   | 19.20   | 19.50   |
|           |            | 12      | 13        | 18.12   | 19.28   | 19.03   | 19.15   | 19.50   |
|           |            | 25      | 0         | 18.20   | 19.22   | 19.21   | 19.19   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.28   | 19.22   | 19.26   | 18.89   | 19.50   |
|           |            | 1       | 13        | 18.56   | 19.33   | 19.17   | 19.32   | 19.50   |
|           |            | 1       | 24        | 18.11   | 19.50   | 19.34   | 19.28   | 19.50   |
|           |            | 12      | 0         | 17.69   | 18.22   | 18.21   | 18.17   | 18.50   |
|           |            | 12      | 6         | 17.68   | 18.28   | 18.19   | 18.26   | 18.50   |
|           |            | 12      | 13        | 17.66   | 18.33   | 18.16   | 18.22   | 18.50   |
|           |            | 25      | 0         | 17.66   | 18.20   | 18.20   | 18.14   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55290   | 55815   | 56165   | 56690   |         |
| 10MHz     | QPSK       | 1       | 0         | 20.19   | 21.21   | 21.08   | 21.03   | 21.50   |
|           |            | 1       | 25        | 19.82   | 21.12   | 20.88   | 21.04   | 21.50   |
|           |            | 1       | 49        | 20.13   | 21.19   | 21.01   | 21.12   | 21.50   |
|           |            | 25      | 0         | 19.20   | 20.16   | 20.17   | 20.09   | 20.50   |
|           |            | 25      | 13        | 19.27   | 20.10   | 20.11   | 20.14   | 20.50   |
|           |            | 25      | 25        | 19.23   | 20.19   | 20.10   | 20.22   | 20.50   |
|           |            | 50      | 0         | 19.21   | 20.25   | 20.12   | 20.13   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.17   | 20.22   | 20.04   | 19.98   | 20.50   |
|           |            | 1       | 25        | 19.25   | 20.17   | 20.12   | 20.23   | 20.50   |
|           |            | 1       | 49        | 19.17   | 20.16   | 20.22   | 20.00   | 20.50   |
|           |            | 25      | 0         | 18.18   | 19.29   | 19.12   | 19.19   | 19.50   |
|           |            | 25      | 13        | 18.28   | 19.24   | 19.30   | 19.17   | 19.50   |
|           |            | 25      | 25        | 18.22   | 19.30   | 19.21   | 19.22   | 19.50   |
|           |            | 50      | 0         | 18.25   | 19.23   | 19.24   | 19.16   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.98   | 19.40   | 19.46   | 19.18   | 19.50   |
|           |            | 1       | 25        | 18.69   | 19.06   | 18.92   | 19.18   | 19.50   |
|           |            | 1       | 49        | 18.83   | 19.37   | 19.30   | 19.39   | 19.50   |
|           |            | 25      | 0         | 18.15   | 18.11   | 18.11   | 18.02   | 18.50   |
|           |            | 25      | 13        | 18.24   | 18.21   | 18.15   | 18.21   | 18.50   |

|           |            | 25      | 25        | 18.23   | 18.26   | 18.16   | 18.23   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|
|           |            | 50      | 0         | 18.17   | 18.16   | 18.06   | 18.14   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55315   | 55820   | 56160   | 56665   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.79   | 21.22   | 20.72   | 20.90   | 21.50   |
|           |            | 1       | 38        | 19.69   | 21.04   | 20.88   | 20.93   | 21.50   |
|           |            | 1       | 74        | 19.83   | 21.16   | 20.85   | 20.98   | 21.50   |
|           |            | 36      | 0         | 19.01   | 20.03   | 19.88   | 20.17   | 20.50   |
|           |            | 36      | 18        | 19.01   | 20.26   | 20.11   | 20.25   | 20.50   |
|           |            | 36      | 39        | 19.13   | 20.18   | 20.10   | 20.25   | 20.50   |
|           |            | 75      | 0         | 19.07   | 20.15   | 19.99   | 20.16   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.06   | 20.15   | 20.01   | 20.09   | 20.50   |
|           |            | 1       | 38        | 19.09   | 20.20   | 19.92   | 20.19   | 20.50   |
|           |            | 1       | 74        | 19.18   | 20.21   | 20.10   | 20.09   | 20.50   |
|           |            | 36      | 0         | 18.03   | 19.10   | 19.03   | 19.07   | 19.50   |
|           |            | 36      | 18        | 18.09   | 19.17   | 19.05   | 19.07   | 19.50   |
|           |            | 36      | 39        | 18.11   | 19.29   | 19.12   | 19.15   | 19.50   |
|           |            | 75      | 0         | 18.13   | 19.32   | 19.02   | 19.19   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.36   | 19.20   | 19.44   | 19.12   | 19.50   |
|           |            | 1       | 38        | 18.37   | 19.14   | 19.33   | 19.24   | 19.50   |
|           |            | 1       | 74        | 18.47   | 19.21   | 19.41   | 19.29   | 19.50   |
|           |            | 36      | 0         | 18.03   | 18.13   | 17.90   | 18.19   | 18.50   |
|           |            | 36      | 18        | 18.13   | 18.18   | 18.16   | 18.19   | 18.50   |
|           |            | 36      | 39        | 18.15   | 18.38   | 18.14   | 18.33   | 18.50   |
|           |            | 75      | 0         | 18.14   | 18.25   | 18.10   | 18.28   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55340   | 55830   | 56150   | 56640   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.21   | 21.25   | 21.09   | 21.02   | 21.50   |
|           |            | 1       | 50        | 20.16   | 21.18   | 21.08   | 21.13   | 21.50   |
|           |            | 1       | 99        | 20.13   | 21.17   | 21.09   | 21.05   | 21.50   |
|           |            | 50      | 0         | 19.73   | 20.09   | 19.53   | 20.07   | 20.50   |
|           |            | 50      | 25        | 19.69   | 20.03   | 20.10   | 20.04   | 20.50   |
|           |            | 50      | 50        | 19.66   | 20.04   | 20.35   | 20.03   | 20.50   |
|           |            | 100     | 0         | 19.32   | 20.11   | 20.15   | 20.09   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.18   | 20.13   | 19.96   | 20.17   | 20.50   |
|           |            | 1       | 50        | 19.28   | 20.21   | 20.23   | 20.16   | 20.50   |
|           |            | 1       | 99        | 19.37   | 20.19   | 20.36   | 19.86   | 20.50   |
|           |            | 50      | 0         | 18.19   | 19.11   | 19.14   | 19.14   | 19.50   |
|           |            | 50      | 25        | 18.35   | 19.29   | 19.17   | 19.16   | 19.50   |
|           |            | 50      | 50        | 18.37   | 19.19   | 19.27   | 19.12   | 19.50   |
|           |            | 100     | 0         | 18.32   | 19.24   | 19.15   | 19.29   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.74   | 19.26   | 19.42   | 19.49   | 19.50   |



|  |  |     |    |       |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|-------|
|  |  | 1   | 50 | 18.74 | 19.20 | 19.14 | 19.13 | 19.50 |
|  |  | 1   | 99 | 18.70 | 19.20 | 19.16 | 19.11 | 19.50 |
|  |  | 50  | 0  | 18.21 | 18.21 | 18.15 | 18.20 | 18.50 |
|  |  | 50  | 25 | 18.08 | 18.10 | 18.13 | 18.03 | 18.50 |
|  |  | 50  | 50 | 18.19 | 18.15 | 18.19 | 18.11 | 18.50 |
|  |  | 100 | 0  | 18.20 | 18.15 | 18.15 | 18.04 | 18.50 |

| LTE Band 48 Ant2 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Tune up |
|                              |            |         |           | 55265                | 55810   | 56170   | 56715   |         |
| 5MHz                         | QPSK       | 1       | 0         | 18.60                | 19.26   | 19.22   | 19.09   | 20.00   |
|                              |            | 1       | 13        | 18.30                | 19.06   | 18.93   | 18.81   | 20.00   |
|                              |            | 1       | 24        | 18.32                | 18.72   | 19.13   | 19.16   | 20.00   |
|                              |            | 12      | 0         | 18.97                | 19.01   | 18.47   | 19.11   | 20.00   |
|                              |            | 12      | 6         | 19.01                | 18.94   | 18.98   | 19.01   | 20.00   |
|                              |            | 12      | 13        | 18.97                | 19.07   | 19.03   | 19.02   | 20.00   |
|                              |            | 25      | 0         | 18.58                | 18.95   | 19.19   | 19.06   | 20.00   |
|                              | 16QAM      | 1       | 0         | 18.51                | 19.05   | 19.01   | 18.90   | 20.00   |
|                              |            | 1       | 13        | 18.60                | 19.16   | 19.09   | 19.13   | 20.00   |
|                              |            | 1       | 24        | 18.67                | 19.21   | 19.15   | 19.16   | 20.00   |
|                              |            | 12      | 0         | 17.89                | 18.82   | 18.81   | 18.86   | 19.50   |
|                              |            | 12      | 6         | 18.14                | 18.94   | 18.90   | 18.92   | 19.50   |
|                              |            | 12      | 13        | 18.14                | 18.84   | 18.97   | 18.91   | 19.50   |
|                              |            | 25      | 0         | 18.11                | 19.03   | 18.79   | 19.05   | 19.50   |
|                              | 64QAM      | 1       | 0         | 18.43                | 18.90   | 19.06   | 18.71   | 19.50   |
|                              |            | 1       | 13        | 18.47                | 19.06   | 18.95   | 18.96   | 19.50   |
|                              |            | 1       | 24        | 18.41                | 18.83   | 18.96   | 18.76   | 19.50   |
|                              |            | 12      | 0         | 18.01                | 18.00   | 17.77   | 18.11   | 18.50   |
|                              |            | 12      | 6         | 17.86                | 17.80   | 17.89   | 17.83   | 18.50   |
|                              |            | 12      | 13        | 17.98                | 17.94   | 17.86   | 17.83   | 18.50   |
|                              |            | 25      | 0         | 18.10                | 17.97   | 17.96   | 17.73   | 18.50   |
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Tune up |
|                              |            |         |           | 55290                | 55815   | 56165   | 56690   |         |
| 10MHz                        | QPSK       | 1       | 0         | 18.51                | 19.20   | 19.18   | 19.07   | 20.00   |
|                              |            | 1       | 25        | 18.36                | 19.11   | 19.02   | 18.95   | 20.00   |
|                              |            | 1       | 49        | 18.31                | 18.92   | 19.06   | 19.11   | 20.00   |
|                              |            | 25      | 0         | 18.91                | 19.12   | 18.40   | 18.96   | 20.00   |
|                              |            | 25      | 13        | 18.89                | 18.99   | 19.13   | 19.06   | 20.00   |
|                              |            | 25      | 25        | 19.08                | 19.14   | 19.05   | 18.99   | 20.00   |
|                              |            | 50      | 0         | 18.59                | 19.07   | 19.00   | 19.10   | 20.00   |

|           | 16QAM      | 1       | 0         | 18.58   | 19.01   | 18.98   | 18.97   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|
|           |            | 1       | 25        | 18.51   | 19.11   | 18.90   | 19.05   | 20.00   |
|           |            | 1       | 49        | 18.79   | 19.17   | 19.16   | 19.05   | 20.00   |
|           |            | 25      | 0         | 17.97   | 18.84   | 18.79   | 18.90   | 19.50   |
|           |            | 25      | 13        | 18.16   | 19.09   | 18.78   | 18.81   | 19.50   |
|           |            | 25      | 25        | 18.20   | 18.89   | 19.03   | 19.03   | 19.50   |
|           |            | 50      | 0         | 17.95   | 18.96   | 18.98   | 19.08   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.44   | 19.03   | 19.16   | 18.69   | 19.50   |
|           |            | 1       | 25        | 18.52   | 19.05   | 18.83   | 18.88   | 19.50   |
|           |            | 1       | 49        | 18.38   | 18.87   | 19.00   | 18.81   | 19.50   |
|           |            | 25      | 0         | 17.88   | 17.94   | 17.87   | 18.08   | 18.50   |
|           |            | 25      | 13        | 18.01   | 17.79   | 18.01   | 17.86   | 18.50   |
|           |            | 25      | 25        | 17.87   | 17.99   | 17.79   | 17.89   | 18.50   |
|           |            | 50      | 0         | 18.17   | 17.93   | 17.91   | 17.73   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55315   | 55820   | 56160   | 56665   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.21   | 19.19   | 19.08   | 19.07   | 20.00   |
|           |            | 1       | 38        | 18.09   | 19.02   | 19.08   | 18.91   | 20.00   |
|           |            | 1       | 74        | 18.03   | 19.01   | 18.96   | 19.05   | 20.00   |
|           |            | 36      | 0         | 18.69   | 19.14   | 18.44   | 19.06   | 20.00   |
|           |            | 36      | 18        | 18.73   | 19.08   | 19.02   | 19.13   | 20.00   |
|           |            | 36      | 39        | 18.70   | 19.09   | 19.02   | 19.09   | 20.00   |
|           |            | 75      | 0         | 18.17   | 19.08   | 18.91   | 18.94   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.26   | 19.11   | 19.04   | 18.90   | 20.00   |
|           |            | 1       | 38        | 18.13   | 18.92   | 19.10   | 19.11   | 20.00   |
|           |            | 1       | 74        | 18.11   | 19.02   | 19.07   | 18.77   | 20.00   |
|           |            | 36      | 0         | 17.89   | 18.80   | 18.88   | 18.90   | 19.50   |
|           |            | 36      | 18        | 18.15   | 18.96   | 18.83   | 18.86   | 19.50   |
|           |            | 36      | 39        | 18.12   | 18.79   | 18.90   | 19.08   | 19.50   |
|           |            | 75      | 0         | 17.94   | 18.87   | 18.86   | 19.11   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.48   | 18.95   | 18.60   | 19.16   | 19.50   |
|           |            | 1       | 38        | 18.59   | 19.05   | 18.88   | 18.98   | 19.50   |
|           |            | 1       | 74        | 18.36   | 18.92   | 18.88   | 18.78   | 19.50   |
|           |            | 36      | 0         | 17.95   | 17.94   | 17.84   | 18.03   | 18.50   |
|           |            | 36      | 18        | 17.90   | 17.81   | 17.87   | 17.79   | 18.50   |
|           |            | 36      | 39        | 18.03   | 17.87   | 17.88   | 17.72   | 18.50   |
|           |            | 75      | 0         | 18.16   | 17.93   | 17.89   | 17.81   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55340   | 55830   | 56150   | 56640   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.39   | 19.30   | 19.27   | 19.11   | 20.00   |
|           |            | 1       | 50        | 18.20   | 19.23   | 19.10   | 19.29   | 20.00   |
|           |            | 1       | 99        | 18.21   | 19.06   | 19.15   | 19.22   | 20.00   |

|  |       |     |    |       |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|-------|
|  |       | 50  | 0  | 18.73 | 19.22 | 18.53 | 19.16 | 20.00 |
|  |       | 50  | 25 | 18.74 | 19.10 | 19.14 | 19.16 | 20.00 |
|  |       | 50  | 50 | 18.85 | 19.20 | 19.12 | 19.13 | 20.00 |
|  |       | 100 | 0  | 18.33 | 19.11 | 19.02 | 19.12 | 20.00 |
|  | 16QAM | 1   | 0  | 18.35 | 19.13 | 19.11 | 19.04 | 20.00 |
|  |       | 1   | 50 | 18.34 | 18.97 | 19.00 | 18.90 | 20.00 |
|  |       | 1   | 99 | 18.54 | 19.06 | 19.19 | 18.61 | 20.00 |
|  |       | 50  | 0  | 18.00 | 18.94 | 18.96 | 18.99 | 19.50 |
|  |       | 50  | 25 | 18.23 | 19.13 | 18.97 | 18.95 | 19.50 |
|  |       | 50  | 50 | 18.29 | 18.98 | 19.09 | 19.10 | 19.50 |
|  |       | 100 | 0  | 18.13 | 19.05 | 19.00 | 19.20 | 19.50 |
|  | 64QAM | 1   | 0  | 18.58 | 19.07 | 19.22 | 19.05 | 19.50 |
|  |       | 1   | 50 | 18.65 | 19.08 | 19.00 | 19.07 | 19.50 |
|  |       | 1   | 99 | 18.49 | 18.99 | 19.05 | 18.94 | 19.50 |
|  |       | 50  | 0  | 18.05 | 18.07 | 17.95 | 18.14 | 18.50 |
|  |       | 50  | 25 | 18.06 | 17.99 | 18.06 | 17.90 | 18.50 |
|  |       | 50  | 50 | 18.06 | 18.05 | 17.99 | 17.91 | 18.50 |
|  |       | 100 | 0  | 18.18 | 17.99 | 18.05 | 17.92 | 18.50 |

| LTE Band 48 Ant2 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Tune up |
|                             |            |         |           | 55265                | 55810   | 56170   | 56715   |         |
| 5MHz                        | QPSK       | 1       | 0         | 17.77                | 18.95   | 18.75   | 18.72   | 19.50   |
|                             |            | 1       | 13        | 17.77                | 18.82   | 18.77   | 18.62   | 19.50   |
|                             |            | 1       | 24        | 17.79                | 18.73   | 18.58   | 18.59   | 19.50   |
|                             |            | 12      | 0         | 18.31                | 18.70   | 18.74   | 18.69   | 19.50   |
|                             |            | 12      | 6         | 18.18                | 18.69   | 18.59   | 18.57   | 19.50   |
|                             |            | 12      | 13        | 18.27                | 18.56   | 18.58   | 18.63   | 19.50   |
|                             |            | 25      | 0         | 17.98                | 18.74   | 18.48   | 18.63   | 19.50   |
|                             | 16QAM      | 1       | 0         | 17.86                | 18.61   | 18.62   | 18.89   | 19.50   |
|                             |            | 1       | 13        | 17.74                | 18.68   | 18.82   | 18.66   | 19.50   |
|                             |            | 1       | 24        | 18.00                | 18.42   | 18.28   | 18.39   | 19.50   |
|                             |            | 12      | 0         | 17.68                | 18.69   | 18.70   | 18.83   | 19.50   |
|                             |            | 12      | 6         | 17.84                | 18.48   | 18.75   | 18.74   | 19.50   |
|                             |            | 12      | 13        | 18.14                | 18.58   | 18.79   | 18.66   | 19.50   |
|                             |            | 25      | 0         | 17.94                | 18.66   | 18.73   | 18.80   | 19.50   |
|                             | 64QAM      | 1       | 0         | 18.04                | 18.67   | 18.59   | 18.74   | 19.50   |
|                             |            | 1       | 13        | 17.99                | 18.57   | 18.34   | 18.39   | 19.50   |
|                             |            | 1       | 24        | 18.00                | 18.49   | 18.59   | 18.57   | 19.50   |
|                             |            | 12      | 0         | 18.06                | 18.03   | 17.96   | 17.93   | 18.50   |

|           |            | 12      | 6         | 17.90   | 17.99   | 17.87   | 17.74   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|
|           |            | 12      | 13        | 17.93   | 18.02   | 18.14   | 17.90   | 18.50   |
|           |            | 25      | 0         | 18.03   | 17.94   | 17.94   | 17.95   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55290   | 55815   | 56165   | 56690   |         |
| 10MHz     | QPSK       | 1       | 0         | 17.92   | 18.96   | 18.75   | 18.58   | 19.50   |
|           |            | 1       | 25        | 17.75   | 18.68   | 18.69   | 18.65   | 19.50   |
|           |            | 1       | 49        | 17.81   | 18.78   | 18.62   | 18.60   | 19.50   |
|           |            | 25      | 0         | 18.40   | 18.70   | 18.76   | 18.61   | 19.50   |
|           |            | 25      | 13        | 18.24   | 18.71   | 18.72   | 18.64   | 19.50   |
|           |            | 25      | 25        | 18.22   | 18.68   | 18.53   | 18.60   | 19.50   |
|           |            | 50      | 0         | 18.06   | 18.71   | 18.47   | 18.49   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.81   | 18.76   | 18.47   | 18.81   | 19.50   |
|           |            | 1       | 25        | 17.78   | 18.69   | 18.84   | 18.66   | 19.50   |
|           |            | 1       | 49        | 17.95   | 18.39   | 18.20   | 18.30   | 19.50   |
|           |            | 25      | 0         | 17.76   | 18.78   | 18.72   | 18.69   | 19.50   |
|           |            | 25      | 13        | 17.88   | 18.62   | 18.89   | 18.86   | 19.50   |
|           |            | 25      | 25        | 18.00   | 18.57   | 18.85   | 18.67   | 19.50   |
|           |            | 50      | 0         | 18.00   | 18.54   | 18.80   | 18.81   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.13   | 18.60   | 18.63   | 18.74   | 19.50   |
|           |            | 1       | 25        | 18.02   | 18.50   | 18.40   | 18.41   | 19.50   |
|           |            | 1       | 49        | 18.03   | 18.57   | 18.46   | 18.57   | 19.50   |
|           |            | 25      | 0         | 18.10   | 18.05   | 18.01   | 18.09   | 18.50   |
|           |            | 25      | 13        | 17.94   | 17.90   | 17.85   | 17.71   | 18.50   |
|           |            | 25      | 25        | 18.00   | 18.04   | 18.12   | 17.91   | 18.50   |
|           |            | 50      | 0         | 17.99   | 17.80   | 17.86   | 17.96   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55315   | 55820   | 56160   | 56665   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.82   | 18.94   | 18.82   | 18.68   | 19.50   |
|           |            | 1       | 38        | 17.71   | 18.70   | 18.70   | 18.62   | 19.50   |
|           |            | 1       | 74        | 17.86   | 18.71   | 18.61   | 18.45   | 19.50   |
|           |            | 36      | 0         | 18.44   | 18.70   | 18.70   | 18.60   | 19.50   |
|           |            | 36      | 18        | 18.16   | 18.74   | 18.57   | 18.53   | 19.50   |
|           |            | 36      | 39        | 18.18   | 18.68   | 18.63   | 18.57   | 19.50   |
|           |            | 75      | 0         | 18.05   | 18.63   | 18.62   | 18.49   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.79   | 18.63   | 18.53   | 18.83   | 19.50   |
|           |            | 1       | 38        | 17.81   | 18.70   | 18.93   | 18.77   | 19.50   |
|           |            | 1       | 74        | 17.87   | 18.31   | 18.32   | 18.35   | 19.50   |
|           |            | 36      | 0         | 17.82   | 18.64   | 18.74   | 18.71   | 19.50   |
|           |            | 36      | 18        | 17.95   | 18.58   | 18.84   | 18.83   | 19.50   |
|           |            | 36      | 39        | 18.02   | 18.68   | 18.85   | 18.78   | 19.50   |
|           |            | 75      | 0         | 17.81   | 18.71   | 18.71   | 18.77   | 19.50   |

|           | 64QAM      | 1       | 0         | 18.02   | 18.50   | 18.63   | 18.78   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|
|           |            | 1       | 38        | 17.97   | 18.52   | 18.35   | 18.42   | 19.50   |
|           |            | 1       | 74        | 17.90   | 18.40   | 18.44   | 18.44   | 19.50   |
|           |            | 36      | 0         | 18.19   | 17.88   | 17.87   | 17.93   | 18.50   |
|           |            | 36      | 18        | 17.90   | 17.95   | 17.93   | 17.85   | 18.50   |
|           |            | 36      | 39        | 17.87   | 18.05   | 18.15   | 17.85   | 18.50   |
|           |            | 75      | 0         | 18.03   | 17.94   | 17.87   | 17.97   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55340   | 55830   | 56150   | 56640   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.94   | 18.97   | 18.86   | 18.73   | 19.50   |
|           |            | 1       | 50        | 17.83   | 18.87   | 18.83   | 18.67   | 19.50   |
|           |            | 1       | 99        | 17.93   | 18.79   | 18.73   | 18.64   | 19.50   |
|           |            | 50      | 0         | 18.49   | 18.85   | 18.79   | 18.72   | 19.50   |
|           |            | 50      | 25        | 18.35   | 18.80   | 18.75   | 18.71   | 19.50   |
|           |            | 50      | 50        | 18.34   | 18.69   | 18.66   | 18.64   | 19.50   |
|           |            | 100     | 0         | 18.10   | 18.74   | 18.64   | 18.67   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.89   | 18.78   | 18.66   | 18.96   | 19.50   |
|           |            | 1       | 50        | 17.88   | 18.85   | 18.93   | 18.78   | 19.50   |
|           |            | 1       | 99        | 18.06   | 18.50   | 18.38   | 18.50   | 19.50   |
|           |            | 50      | 0         | 17.84   | 18.82   | 18.75   | 18.87   | 19.50   |
|           |            | 50      | 25        | 17.95   | 18.65   | 18.92   | 18.91   | 19.50   |
|           |            | 50      | 50        | 18.16   | 18.74   | 18.95   | 18.85   | 19.50   |
|           |            | 100     | 0         | 18.01   | 18.72   | 18.87   | 18.90   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.15   | 18.68   | 18.70   | 18.80   | 19.50   |
|           |            | 1       | 50        | 18.13   | 18.69   | 18.53   | 18.55   | 19.50   |
|           |            | 1       | 99        | 18.06   | 18.59   | 18.64   | 18.58   | 19.50   |
|           |            | 50      | 0         | 18.20   | 18.07   | 18.03   | 18.11   | 18.50   |
|           |            | 50      | 25        | 18.05   | 18.09   | 17.97   | 17.88   | 18.50   |
|           |            | 50      | 50        | 18.07   | 18.06   | 18.19   | 17.93   | 18.50   |
|           |            | 100     | 0         | 18.05   | 17.98   | 18.01   | 18.01   | 18.50   |

| LTE Band 66 Ant0 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 23.01                | 22.98   | 22.83   | 24.00   |
|                             |            | 1       | 2         | 23.11                | 23.06   | 22.93   | 24.00   |
|                             |            | 1       | 5         | 22.99                | 22.97   | 22.81   | 24.00   |
|                             |            | 3       | 0         | 23.05                | 22.88   | 22.77   | 24.00   |
|                             |            | 3       | 1         | 23.09                | 22.91   | 22.89   | 24.00   |
|                             |            | 3       | 3         | 22.98                | 22.87   | 22.74   | 24.00   |

|           | 16QAM      | 6       | 0         | 22.15   | 21.95   | 21.88   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 22.27   | 21.86   | 21.82   | 23.00   |
|           |            | 1       | 2         | 22.36   | 21.94   | 21.96   | 23.00   |
|           |            | 1       | 5         | 22.27   | 21.90   | 21.83   | 23.00   |
|           |            | 3       | 0         | 22.21   | 21.89   | 22.04   | 23.00   |
|           |            | 3       | 1         | 22.32   | 22.00   | 22.06   | 23.00   |
|           |            | 3       | 3         | 22.29   | 21.93   | 22.04   | 23.00   |
|           |            | 6       | 0         | 21.10   | 21.03   | 20.93   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.85   | 20.82   | 20.79   | 22.00   |
|           |            | 1       | 2         | 21.02   | 20.96   | 20.87   | 22.00   |
|           |            | 1       | 5         | 20.92   | 20.80   | 20.73   | 22.00   |
|           |            | 3       | 0         | 20.95   | 20.68   | 20.77   | 22.00   |
|           |            | 3       | 1         | 20.95   | 20.76   | 20.88   | 22.00   |
|           |            | 3       | 3         | 20.93   | 20.76   | 20.72   | 22.00   |
|           |            | 6       | 0         | 19.99   | 19.84   | 19.74   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131987  | 132322  | 132657  |         |
| 3MHz      | QPSK       | 1       | 0         | 23.14   | 23.02   | 22.82   | 24.00   |
|           |            | 1       | 7         | 23.09   | 22.92   | 22.89   | 24.00   |
|           |            | 1       | 14        | 23.08   | 23.02   | 22.81   | 24.00   |
|           |            | 8       | 0         | 22.25   | 22.07   | 21.99   | 23.00   |
|           |            | 8       | 4         | 22.22   | 22.09   | 22.01   | 23.00   |
|           |            | 8       | 7         | 22.18   | 22.08   | 21.95   | 23.00   |
|           |            | 15      | 0         | 22.23   | 22.05   | 21.95   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.28   | 21.92   | 22.23   | 23.00   |
|           |            | 1       | 7         | 22.29   | 21.98   | 22.12   | 23.00   |
|           |            | 1       | 14        | 22.24   | 21.94   | 22.22   | 23.00   |
|           |            | 8       | 0         | 21.30   | 21.07   | 21.00   | 22.00   |
|           |            | 8       | 4         | 21.29   | 21.12   | 21.01   | 22.00   |
|           |            | 8       | 7         | 21.26   | 21.06   | 20.95   | 22.00   |
|           |            | 15      | 0         | 21.08   | 21.07   | 20.97   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.98   | 20.91   | 20.66   | 22.00   |
|           |            | 1       | 7         | 20.95   | 20.82   | 20.70   | 22.00   |
|           |            | 1       | 14        | 20.98   | 21.00   | 20.71   | 22.00   |
|           |            | 8       | 0         | 20.23   | 20.05   | 19.95   | 21.00   |
|           |            | 8       | 4         | 20.15   | 20.01   | 19.94   | 21.00   |
|           |            | 8       | 7         | 20.12   | 20.04   | 19.87   | 21.00   |
|           |            | 15      | 0         | 20.07   | 20.04   | 19.76   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 23.19   | 23.06   | 22.89   | 24.00   |
|           |            | 1       | 13        | 23.20   | 23.07   | 22.88   | 24.00   |

|           |            | 1       | 24        | 23.15   | 22.95   | 22.86   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 0         | 22.25   | 22.10   | 21.97   | 23.00   |
|           |            | 12      | 6         | 22.27   | 22.12   | 21.96   | 23.00   |
|           |            | 12      | 13        | 22.26   | 22.06   | 21.93   | 23.00   |
|           |            | 25      | 0         | 22.23   | 22.09   | 21.96   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.50   | 22.19   | 22.24   | 23.00   |
|           |            | 1       | 13        | 22.52   | 22.26   | 22.33   | 23.00   |
|           |            | 1       | 24        | 22.40   | 22.13   | 22.20   | 23.00   |
|           |            | 12      | 0         | 21.23   | 21.04   | 20.99   | 22.00   |
|           |            | 12      | 6         | 21.26   | 21.06   | 21.00   | 22.00   |
|           |            | 12      | 13        | 21.21   | 21.02   | 20.99   | 22.00   |
|           |            | 25      | 0         | 21.24   | 21.05   | 21.03   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.17   | 21.03   | 20.87   | 22.00   |
|           |            | 1       | 13        | 21.14   | 21.00   | 20.81   | 22.00   |
|           |            | 1       | 24        | 21.04   | 20.88   | 20.79   | 22.00   |
|           |            | 12      | 0         | 20.19   | 20.05   | 19.77   | 21.00   |
|           |            | 12      | 6         | 20.09   | 20.00   | 19.78   | 21.00   |
|           |            | 12      | 13        | 20.23   | 19.90   | 19.75   | 21.00   |
|           |            | 25      | 0         | 20.08   | 19.92   | 19.79   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 23.18   | 23.03   | 22.83   | 24.00   |
|           |            | 1       | 25        | 23.14   | 23.01   | 22.85   | 24.00   |
|           |            | 1       | 49        | 23.06   | 22.92   | 22.81   | 24.00   |
|           |            | 25      | 0         | 22.26   | 22.12   | 21.92   | 23.00   |
|           |            | 25      | 13        | 22.29   | 22.13   | 21.93   | 23.00   |
|           |            | 25      | 25        | 22.21   | 22.05   | 21.98   | 23.00   |
|           |            | 50      | 0         | 22.22   | 22.11   | 21.89   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.50   | 22.37   | 22.06   | 23.00   |
|           |            | 1       | 25        | 22.41   | 22.30   | 22.02   | 23.00   |
|           |            | 1       | 49        | 22.38   | 22.25   | 21.95   | 23.00   |
|           |            | 25      | 0         | 21.35   | 21.18   | 20.95   | 22.00   |
|           |            | 25      | 13        | 21.30   | 21.20   | 20.91   | 22.00   |
|           |            | 25      | 25        | 21.24   | 21.11   | 20.99   | 22.00   |
|           |            | 50      | 0         | 21.24   | 21.10   | 20.89   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.02   | 20.88   | 20.74   | 22.00   |
|           |            | 1       | 25        | 21.01   | 20.85   | 20.77   | 22.00   |
|           |            | 1       | 49        | 21.00   | 20.78   | 20.76   | 22.00   |
|           |            | 25      | 0         | 20.17   | 19.99   | 19.88   | 21.00   |
|           |            | 25      | 13        | 20.10   | 20.05   | 19.87   | 21.00   |
|           |            | 25      | 25        | 20.20   | 19.89   | 19.83   | 21.00   |
|           |            | 50      | 0         | 20.11   | 19.96   | 19.79   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 23.04   | 22.93   | 22.86   | 24.00   |
|           |            | 1       | 38        | 23.00   | 22.88   | 22.79   | 24.00   |
|           |            | 1       | 74        | 22.96   | 22.77   | 22.78   | 24.00   |
|           |            | 36      | 0         | 22.14   | 21.92   | 21.78   | 23.00   |
|           |            | 36      | 18        | 22.12   | 21.97   | 21.77   | 23.00   |
|           |            | 36      | 39        | 22.06   | 21.93   | 21.82   | 23.00   |
|           |            | 75      | 0         | 22.08   | 21.94   | 21.80   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.35   | 22.19   | 21.98   | 23.00   |
|           |            | 1       | 38        | 22.27   | 22.13   | 21.91   | 23.00   |
|           |            | 1       | 74        | 22.18   | 22.12   | 21.87   | 23.00   |
|           |            | 36      | 0         | 21.16   | 20.90   | 20.80   | 22.00   |
|           |            | 36      | 18        | 21.12   | 20.99   | 20.78   | 22.00   |
|           |            | 36      | 39        | 21.08   | 20.93   | 20.83   | 22.00   |
|           |            | 75      | 0         | 21.11   | 20.96   | 20.79   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.93   | 20.74   | 20.68   | 22.00   |
|           |            | 1       | 38        | 20.91   | 20.75   | 20.59   | 22.00   |
|           |            | 1       | 74        | 20.93   | 20.69   | 20.65   | 22.00   |
|           |            | 36      | 0         | 20.01   | 19.90   | 19.67   | 21.00   |
|           |            | 36      | 18        | 20.03   | 19.81   | 19.75   | 21.00   |
|           |            | 36      | 39        | 19.93   | 19.76   | 19.75   | 21.00   |
|           |            | 75      | 0         | 20.00   | 19.89   | 19.79   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 23.29   | 23.37   | 23.31   | 24.00   |
|           |            | 1       | 50        | 22.98   | 22.98   | 22.76   | 24.00   |
|           |            | 1       | 99        | 22.93   | 22.90   | 22.77   | 24.00   |
|           |            | 50      | 0         | 22.19   | 22.27   | 22.22   | 23.00   |
|           |            | 50      | 25        | 22.08   | 21.97   | 21.85   | 23.00   |
|           |            | 50      | 50        | 22.04   | 21.95   | 21.83   | 23.00   |
|           |            | 100     | 0         | 22.08   | 22.16   | 21.77   | 23.00   |
|           | 16QAM      | 1       | 0         | 22.28   | 21.93   | 21.84   | 23.00   |
|           |            | 1       | 50        | 22.19   | 21.87   | 21.72   | 23.00   |
|           |            | 1       | 99        | 22.09   | 21.74   | 21.68   | 23.00   |
|           |            | 50      | 0         | 21.11   | 20.86   | 20.86   | 22.00   |
|           |            | 50      | 25        | 21.09   | 20.95   | 20.95   | 22.00   |
|           |            | 50      | 50        | 21.04   | 20.90   | 20.88   | 22.00   |
|           |            | 100     | 0         | 21.06   | 20.97   | 20.87   | 22.00   |
|           | 64QAM      | 1       | 0         | 21.06   | 21.07   | 20.82   | 22.00   |
|           |            | 1       | 50        | 20.95   | 20.84   | 20.60   | 22.00   |
|           |            | 1       | 99        | 20.74   | 20.88   | 20.61   | 22.00   |
|           |            | 50      | 0         | 20.00   | 19.96   | 19.64   | 21.00   |
|           |            | 50      | 25        | 20.07   | 19.96   | 19.75   | 21.00   |
|           |            | 50      | 50        | 19.86   | 19.84   | 19.80   | 21.00   |
|           |            | 100     | 0         | 19.93   | 19.88   | 19.63   | 21.00   |

LTE Band 66 Ant0 Receiver on

Conducted Power(dBm)



| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 131979  | 132322  | 132665  |         |
| 1.4MHz    | QPSK       | 1       | 0         | 15.79   | 16.14   | 15.93   | 17.50   |
|           |            | 1       | 2         | 15.90   | 15.96   | 16.00   | 17.50   |
|           |            | 1       | 5         | 15.84   | 16.05   | 15.89   | 17.50   |
|           |            | 3       | 0         | 15.92   | 15.98   | 16.00   | 17.50   |
|           |            | 3       | 1         | 15.75   | 16.03   | 15.92   | 17.50   |
|           |            | 3       | 3         | 15.90   | 15.96   | 16.00   | 17.50   |
|           |            | 6       | 0         | 15.76   | 16.06   | 15.98   | 17.50   |
|           | 16QAM      | 1       | 0         | 15.76   | 16.11   | 15.93   | 17.50   |
|           |            | 1       | 2         | 15.88   | 16.06   | 15.89   | 17.50   |
|           |            | 1       | 5         | 15.81   | 16.06   | 15.91   | 17.50   |
|           |            | 3       | 0         | 15.80   | 16.09   | 15.93   | 17.50   |
|           |            | 3       | 1         | 15.74   | 16.11   | 15.95   | 17.50   |
|           |            | 3       | 3         | 15.72   | 16.13   | 15.93   | 17.50   |
|           |            | 6       | 0         | 15.72   | 16.03   | 15.98   | 17.50   |
|           | 64QAM      | 1       | 0         | 15.88   | 15.99   | 15.98   | 17.50   |
|           |            | 1       | 2         | 15.86   | 16.13   | 16.02   | 17.50   |
|           |            | 1       | 5         | 15.87   | 16.02   | 15.91   | 17.50   |
|           |            | 3       | 0         | 15.85   | 15.99   | 15.95   | 17.50   |
|           |            | 3       | 1         | 15.91   | 16.12   | 15.96   | 17.50   |
|           |            | 3       | 3         | 15.75   | 16.13   | 15.89   | 17.50   |
|           |            | 6       | 0         | 15.85   | 16.01   | 16.03   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131987  | 132322  | 132657  |         |
| 3MHz      | QPSK       | 1       | 0         | 15.74   | 16.15   | 15.88   | 17.50   |
|           |            | 1       | 7         | 15.91   | 15.99   | 15.98   | 17.50   |
|           |            | 1       | 14        | 15.88   | 16.08   | 15.90   | 17.50   |
|           |            | 8       | 0         | 15.87   | 16.10   | 16.00   | 17.50   |
|           |            | 8       | 4         | 15.76   | 16.07   | 15.96   | 17.50   |
|           |            | 8       | 7         | 15.85   | 16.14   | 16.01   | 17.50   |
|           |            | 15      | 0         | 15.85   | 16.09   | 16.05   | 17.50   |
|           | 16QAM      | 1       | 0         | 15.86   | 16.03   | 16.05   | 17.50   |
|           |            | 1       | 7         | 15.91   | 16.14   | 15.96   | 17.50   |
|           |            | 1       | 14        | 15.75   | 16.03   | 15.88   | 17.50   |
|           |            | 8       | 0         | 15.74   | 16.04   | 15.96   | 17.50   |
|           |            | 8       | 4         | 15.77   | 16.01   | 16.07   | 17.50   |
|           |            | 8       | 7         | 15.86   | 16.13   | 16.04   | 17.50   |
|           |            | 15      | 0         | 15.91   | 16.14   | 15.87   | 17.50   |
|           | 64QAM      | 1       | 0         | 15.80   | 16.03   | 16.03   | 17.50   |
|           |            | 1       | 7         | 15.78   | 16.02   | 15.89   | 17.50   |
|           |            | 1       | 14        | 15.80   | 16.07   | 15.89   | 17.50   |

|           |            | 8       | 0         | 15.86   | 16.04   | 15.94   | 17.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 4         | 15.76   | 16.04   | 16.00   | 17.50   |
|           |            | 8       | 7         | 15.86   | 16.14   | 16.07   | 17.50   |
|           |            | 15      | 0         | 15.74   | 16.11   | 15.98   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 15.88   | 16.15   | 15.99   | 17.50   |
|           |            | 1       | 13        | 15.77   | 16.12   | 15.95   | 17.50   |
|           |            | 1       | 24        | 15.81   | 15.98   | 15.93   | 17.50   |
|           |            | 12      | 0         | 15.75   | 16.08   | 15.96   | 17.50   |
|           |            | 12      | 6         | 15.86   | 16.02   | 16.03   | 17.50   |
|           |            | 12      | 13        | 15.75   | 16.00   | 15.92   | 17.50   |
|           |            | 25      | 0         | 15.83   | 16.09   | 15.95   | 17.50   |
|           | 16QAM      | 1       | 0         | 15.79   | 15.98   | 15.89   | 17.50   |
|           |            | 1       | 13        | 15.91   | 16.10   | 15.92   | 17.50   |
|           |            | 1       | 24        | 15.80   | 16.00   | 15.96   | 17.50   |
|           |            | 12      | 0         | 15.86   | 16.11   | 15.88   | 17.50   |
|           |            | 12      | 6         | 15.85   | 16.03   | 16.00   | 17.50   |
|           |            | 12      | 13        | 15.77   | 16.00   | 16.04   | 17.50   |
|           |            | 25      | 0         | 15.81   | 16.02   | 15.92   | 17.50   |
|           | 64QAM      | 1       | 0         | 15.84   | 16.10   | 15.97   | 17.50   |
|           |            | 1       | 13        | 15.75   | 16.01   | 15.95   | 17.50   |
|           |            | 1       | 24        | 15.86   | 16.04   | 16.04   | 17.50   |
|           |            | 12      | 0         | 15.84   | 16.14   | 15.89   | 17.50   |
|           |            | 12      | 6         | 15.90   | 16.02   | 15.93   | 17.50   |
|           |            | 12      | 13        | 15.82   | 16.01   | 15.98   | 17.50   |
|           |            | 25      | 0         | 15.75   | 16.09   | 15.87   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 15.90   | 16.16   | 15.87   | 17.50   |
|           |            | 1       | 25        | 15.74   | 16.14   | 16.06   | 17.50   |
|           |            | 1       | 49        | 15.73   | 16.03   | 15.87   | 17.50   |
|           |            | 25      | 0         | 15.78   | 16.02   | 16.00   | 17.50   |
|           |            | 25      | 13        | 15.79   | 16.10   | 15.99   | 17.50   |
|           |            | 25      | 25        | 15.78   | 16.13   | 15.90   | 17.50   |
|           |            | 50      | 0         | 15.77   | 16.08   | 15.95   | 17.50   |
|           | 16QAM      | 1       | 0         | 15.88   | 16.15   | 16.01   | 17.50   |
|           |            | 1       | 25        | 15.80   | 16.14   | 16.07   | 17.50   |
|           |            | 1       | 49        | 15.74   | 16.06   | 16.06   | 17.50   |
|           |            | 25      | 0         | 15.82   | 16.06   | 15.89   | 17.50   |
|           |            | 25      | 13        | 15.80   | 16.08   | 15.96   | 17.50   |
|           |            | 25      | 25        | 15.89   | 16.04   | 16.04   | 17.50   |

|           | 64QAM      | 50      | 0         | 15.77   | 16.05   | 15.92   | 17.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 15.83   | 15.99   | 15.92   | 17.50   |
|           |            | 1       | 25        | 15.91   | 16.14   | 16.06   | 17.50   |
|           |            | 1       | 49        | 15.90   | 16.06   | 15.98   | 17.50   |
|           |            | 25      | 0         | 15.73   | 16.10   | 16.00   | 17.50   |
|           |            | 25      | 13        | 15.83   | 16.16   | 15.92   | 17.50   |
|           |            | 25      | 25        | 15.89   | 16.12   | 15.91   | 17.50   |
|           |            | 50      | 0         | 15.73   | 15.97   | 15.94   | 17.50   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 15.84   | 16.12   | 15.96   | 17.50   |
|           |            | 1       | 38        | 15.89   | 16.10   | 15.88   | 17.50   |
|           |            | 1       | 74        | 15.88   | 16.11   | 15.88   | 17.50   |
|           |            | 36      | 0         | 15.86   | 16.09   | 16.02   | 17.50   |
|           |            | 36      | 18        | 15.85   | 16.10   | 16.01   | 17.50   |
|           |            | 36      | 39        | 15.87   | 16.07   | 15.99   | 17.50   |
|           |            | 75      | 0         | 15.73   | 16.09   | 15.94   | 17.50   |
|           | 16QAM      | 1       | 0         | 15.84   | 16.10   | 16.02   | 17.50   |
|           |            | 1       | 38        | 15.86   | 16.11   | 15.93   | 17.50   |
|           |            | 1       | 74        | 15.75   | 15.96   | 15.88   | 17.50   |
|           |            | 36      | 0         | 15.92   | 15.97   | 15.89   | 17.50   |
|           |            | 36      | 18        | 15.92   | 16.03   | 15.92   | 17.50   |
|           |            | 36      | 39        | 15.78   | 15.99   | 16.06   | 17.50   |
|           |            | 75      | 0         | 15.85   | 15.97   | 15.92   | 17.50   |
|           | 64QAM      | 1       | 0         | 15.88   | 16.11   | 15.97   | 17.50   |
|           |            | 1       | 38        | 15.83   | 16.10   | 16.06   | 17.50   |
|           |            | 1       | 74        | 15.72   | 15.97   | 15.93   | 17.50   |
|           |            | 36      | 0         | 15.77   | 16.05   | 15.97   | 17.50   |
|           |            | 36      | 18        | 15.82   | 16.11   | 16.05   | 17.50   |
|           |            | 36      | 39        | 15.82   | 16.10   | 15.92   | 17.50   |
|           |            | 75      | 0         | 15.84   | 16.00   | 15.98   | 17.50   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 15.93   | 16.17   | 16.08   | 17.50   |
|           |            | 1       | 50        | 15.75   | 15.99   | 15.97   | 17.50   |
|           |            | 1       | 99        | 15.74   | 16.05   | 16.03   | 17.50   |
|           |            | 50      | 0         | 15.88   | 16.11   | 16.05   | 17.50   |
|           |            | 50      | 25        | 15.83   | 16.07   | 15.98   | 17.50   |
|           |            | 50      | 50        | 15.85   | 16.09   | 15.98   | 17.50   |
|           |            | 100     | 0         | 15.81   | 16.08   | 15.94   | 17.50   |
|           | 16QAM      | 1       | 0         | 15.83   | 15.99   | 15.99   | 17.50   |
|           |            | 1       | 50        | 15.74   | 16.10   | 15.92   | 17.50   |
|           |            | 1       | 99        | 15.90   | 16.02   | 16.01   | 17.50   |
|           |            | 50      | 0         | 15.73   | 16.00   | 15.89   | 17.50   |
|           |            | 50      | 25        | 15.84   | 15.96   | 15.97   | 17.50   |
|           |            | 50      | 50        | 15.81   | 16.12   | 15.99   | 17.50   |
|           |            | 100     | 0         | 15.85   | 16.12   | 16.00   | 17.50   |
|           | 64QAM      | 1       | 0         | 15.87   | 16.00   | 16.04   | 17.50   |
|           |            | 1       | 50        | 15.85   | 16.06   | 15.89   | 17.50   |

|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 15.88 | 16.01 | 15.94 | 17.50 |
|  |  | 50  | 0  | 15.79 | 16.01 | 15.90 | 17.50 |
|  |  | 50  | 25 | 15.74 | 16.07 | 15.92 | 17.50 |
|  |  | 50  | 50 | 15.85 | 16.16 | 16.06 | 17.50 |
|  |  | 100 | 0  | 15.85 | 16.09 | 16.00 | 17.50 |

| LTE Band 66 Ant0 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 17.29                | 17.40   | 17.35   | 18.50   |
|                             |            | 1       | 2         | 17.26                | 17.36   | 17.35   | 18.50   |
|                             |            | 1       | 5         | 17.13                | 17.25   | 17.19   | 18.50   |
|                             |            | 3       | 0         | 17.17                | 17.34   | 17.18   | 18.50   |
|                             |            | 3       | 1         | 17.29                | 17.27   | 17.20   | 18.50   |
|                             |            | 3       | 3         | 17.13                | 17.26   | 17.31   | 18.50   |
|                             |            | 6       | 0         | 17.24                | 17.29   | 17.31   | 18.50   |
|                             | 16QAM      | 1       | 0         | 17.14                | 17.39   | 17.34   | 18.50   |
|                             |            | 1       | 2         | 17.16                | 17.30   | 17.20   | 18.50   |
|                             |            | 1       | 5         | 17.27                | 17.26   | 17.29   | 18.50   |
|                             |            | 3       | 0         | 17.22                | 17.26   | 17.17   | 18.50   |
|                             |            | 3       | 1         | 17.26                | 17.34   | 17.27   | 18.50   |
|                             |            | 3       | 3         | 17.25                | 17.25   | 17.28   | 18.50   |
|                             |            | 6       | 0         | 17.19                | 17.24   | 17.18   | 18.50   |
|                             | 64QAM      | 1       | 0         | 17.21                | 17.21   | 17.34   | 18.50   |
|                             |            | 1       | 2         | 17.13                | 17.38   | 17.20   | 18.50   |
|                             |            | 1       | 5         | 17.22                | 17.27   | 17.16   | 18.50   |
|                             |            | 3       | 0         | 17.24                | 17.21   | 17.27   | 18.50   |
|                             |            | 3       | 1         | 17.14                | 17.36   | 17.31   | 18.50   |
|                             |            | 3       | 3         | 17.31                | 17.31   | 17.29   | 18.50   |
|                             |            | 6       | 0         | 17.23                | 17.24   | 17.18   | 18.50   |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz                        | QPSK       | 1       | 0         | 17.22                | 17.39   | 17.34   | 18.50   |
|                             |            | 1       | 7         | 17.18                | 17.37   | 17.27   | 18.50   |
|                             |            | 1       | 14        | 17.25                | 17.25   | 17.20   | 18.50   |
|                             |            | 8       | 0         | 17.27                | 17.29   | 17.17   | 18.50   |
|                             |            | 8       | 4         | 17.14                | 17.24   | 17.16   | 18.50   |
|                             |            | 8       | 7         | 17.31                | 17.29   | 17.35   | 18.50   |
|                             |            | 15      | 0         | 17.14                | 17.21   | 17.26   | 18.50   |
|                             | 16QAM      | 1       | 0         | 17.25                | 17.27   | 17.33   | 18.50   |
|                             |            | 1       | 7         | 17.20                | 17.25   | 17.27   | 18.50   |

|           |            | 1       | 14        | 17.23   | 17.32   | 17.29   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 0         | 17.23   | 17.23   | 17.32   | 18.50   |
|           |            | 8       | 4         | 17.15   | 17.32   | 17.33   | 18.50   |
|           |            | 8       | 7         | 17.21   | 17.33   | 17.35   | 18.50   |
|           |            | 15      | 0         | 17.25   | 17.29   | 17.21   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.22   | 17.37   | 17.30   | 18.50   |
|           |            | 1       | 7         | 17.15   | 17.26   | 17.27   | 18.50   |
|           |            | 1       | 14        | 17.18   | 17.37   | 17.34   | 18.50   |
|           |            | 8       | 0         | 17.14   | 17.23   | 17.34   | 18.50   |
|           |            | 8       | 4         | 17.20   | 17.28   | 17.29   | 18.50   |
|           |            | 8       | 7         | 17.20   | 17.29   | 17.31   | 18.50   |
|           |            | 15      | 0         | 17.13   | 17.22   | 17.35   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 17.13   | 17.39   | 17.21   | 18.50   |
|           |            | 1       | 13        | 17.30   | 17.38   | 17.18   | 18.50   |
|           |            | 1       | 24        | 17.29   | 17.32   | 17.33   | 18.50   |
|           |            | 12      | 0         | 17.19   | 17.32   | 17.25   | 18.50   |
|           |            | 12      | 6         | 17.29   | 17.31   | 17.36   | 18.50   |
|           |            | 12      | 13        | 17.16   | 17.34   | 17.21   | 18.50   |
|           |            | 25      | 0         | 17.17   | 17.23   | 17.24   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.25   | 17.32   | 17.23   | 18.50   |
|           |            | 1       | 13        | 17.30   | 17.21   | 17.27   | 18.50   |
|           |            | 1       | 24        | 17.20   | 17.31   | 17.23   | 18.50   |
|           |            | 12      | 0         | 17.17   | 17.37   | 17.17   | 18.50   |
|           |            | 12      | 6         | 17.20   | 17.38   | 17.35   | 18.50   |
|           |            | 12      | 13        | 17.14   | 17.28   | 17.29   | 18.50   |
|           |            | 25      | 0         | 17.16   | 17.23   | 17.35   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.26   | 17.26   | 17.20   | 18.50   |
|           |            | 1       | 13        | 17.31   | 17.25   | 17.25   | 18.50   |
|           |            | 1       | 24        | 17.14   | 17.28   | 17.21   | 18.50   |
|           |            | 12      | 0         | 17.25   | 17.22   | 17.36   | 18.50   |
|           |            | 12      | 6         | 17.13   | 17.32   | 17.26   | 18.50   |
|           |            | 12      | 13        | 17.13   | 17.40   | 17.34   | 18.50   |
|           |            | 25      | 0         | 17.13   | 17.39   | 17.28   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 17.13   | 17.38   | 17.35   | 18.50   |
|           |            | 1       | 25        | 17.21   | 17.24   | 17.32   | 18.50   |
|           |            | 1       | 49        | 17.16   | 17.21   | 17.26   | 18.50   |
|           |            | 25      | 0         | 17.30   | 17.33   | 17.20   | 18.50   |
|           |            | 25      | 13        | 17.28   | 17.30   | 17.31   | 18.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 17.21   | 17.24   | 17.25   | 18.50   |
|           |            | 50      | 0         | 17.26   | 17.25   | 17.32   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.23   | 17.31   | 17.35   | 18.50   |
|           |            | 1       | 25        | 17.32   | 17.22   | 17.17   | 18.50   |
|           |            | 1       | 49        | 17.26   | 17.25   | 17.35   | 18.50   |
|           |            | 25      | 0         | 17.15   | 17.32   | 17.16   | 18.50   |
|           |            | 25      | 13        | 17.20   | 17.32   | 17.28   | 18.50   |
|           |            | 25      | 25        | 17.28   | 17.20   | 17.29   | 18.50   |
|           |            | 50      | 0         | 17.27   | 17.36   | 17.35   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.24   | 17.33   | 17.23   | 18.50   |
|           |            | 1       | 25        | 17.27   | 17.30   | 17.35   | 18.50   |
|           |            | 1       | 49        | 17.20   | 17.27   | 17.35   | 18.50   |
|           |            | 25      | 0         | 17.18   | 17.30   | 17.22   | 18.50   |
|           |            | 25      | 13        | 17.17   | 17.29   | 17.23   | 18.50   |
|           |            | 25      | 25        | 17.15   | 17.26   | 17.29   | 18.50   |
|           |            | 50      | 0         | 17.30   | 17.24   | 17.19   | 18.50   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 17.21   | 17.38   | 17.19   | 18.50   |
|           |            | 1       | 38        | 17.27   | 17.24   | 17.25   | 18.50   |
|           |            | 1       | 74        | 17.30   | 17.37   | 17.32   | 18.50   |
|           |            | 36      | 0         | 17.29   | 17.27   | 17.21   | 18.50   |
|           |            | 36      | 18        | 17.16   | 17.21   | 17.27   | 18.50   |
|           |            | 36      | 39        | 17.26   | 17.25   | 17.27   | 18.50   |
|           |            | 75      | 0         | 17.18   | 17.29   | 17.24   | 18.50   |
|           |            |         |           |         |         |         |         |
|           | 16QAM      | 1       | 0         | 17.24   | 17.34   | 17.31   | 18.50   |
|           |            | 1       | 38        | 17.15   | 17.31   | 17.27   | 18.50   |
|           |            | 1       | 74        | 17.18   | 17.33   | 17.32   | 18.50   |
|           |            | 36      | 0         | 17.20   | 17.20   | 17.35   | 18.50   |
|           |            | 36      | 18        | 17.20   | 17.28   | 17.22   | 18.50   |
|           |            | 36      | 39        | 17.14   | 17.30   | 17.22   | 18.50   |
|           |            | 75      | 0         | 17.29   | 17.28   | 17.19   | 18.50   |
|           |            |         |           |         |         |         |         |
|           | 64QAM      | 1       | 0         | 17.22   | 17.28   | 17.34   | 18.50   |
|           |            | 1       | 38        | 17.30   | 17.29   | 17.24   | 18.50   |
|           |            | 1       | 74        | 17.29   | 17.40   | 17.25   | 18.50   |
|           |            | 36      | 0         | 17.29   | 17.38   | 17.28   | 18.50   |
|           |            | 36      | 18        | 17.21   | 17.40   | 17.21   | 18.50   |
|           |            | 36      | 39        | 17.29   | 17.23   | 17.23   | 18.50   |
|           |            | 75      | 0         | 17.29   | 17.31   | 17.26   | 18.50   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 17.33   | 17.41   | 17.37   | 18.50   |
|           |            | 1       | 50        | 17.28   | 17.25   | 17.35   | 18.50   |
|           |            | 1       | 99        | 17.15   | 17.28   | 17.18   | 18.50   |
|           |            | 50      | 0         | 17.33   | 17.37   | 17.36   | 18.50   |
|           |            | 50      | 25        | 17.24   | 17.20   | 17.34   | 18.50   |
|           |            | 50      | 50        | 17.31   | 17.26   | 17.26   | 18.50   |

|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  | 16QAM | 100 | 0  | 17.23 | 17.28 | 17.22 | 18.50 |
|  |       | 1   | 0  | 17.16 | 17.32 | 17.36 | 18.50 |
|  |       | 1   | 50 | 17.24 | 17.23 | 17.16 | 18.50 |
|  |       | 1   | 99 | 17.12 | 17.30 | 17.24 | 18.50 |
|  |       | 50  | 0  | 17.31 | 17.27 | 17.27 | 18.50 |
|  |       | 50  | 25 | 17.19 | 17.35 | 17.18 | 18.50 |
|  |       | 50  | 50 | 17.30 | 17.37 | 17.24 | 18.50 |
|  |       | 100 | 0  | 17.18 | 17.25 | 17.17 | 18.50 |
|  | 64QAM | 1   | 0  | 17.15 | 17.23 | 17.17 | 18.50 |
|  |       | 1   | 50 | 17.23 | 17.33 | 17.26 | 18.50 |
|  |       | 1   | 99 | 17.24 | 17.34 | 17.32 | 18.50 |
|  |       | 50  | 0  | 17.19 | 17.32 | 17.30 | 18.50 |
|  |       | 50  | 25 | 17.24 | 17.24 | 17.25 | 18.50 |
|  |       | 50  | 50 | 17.13 | 17.32 | 17.36 | 18.50 |
|  |       | 100 | 0  | 17.32 | 17.35 | 17.28 | 18.50 |

| LTE Band 66 Ant0 Sensor on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 17.80                | 18.04   | 17.87   | 19.00   |
|                            |            | 1       | 2         | 17.89                | 17.99   | 17.87   | 19.00   |
|                            |            | 1       | 5         | 17.75                | 17.88   | 17.85   | 19.00   |
|                            |            | 3       | 0         | 17.70                | 18.01   | 17.68   | 19.00   |
|                            |            | 3       | 1         | 17.90                | 17.82   | 17.79   | 19.00   |
|                            |            | 3       | 3         | 17.70                | 17.90   | 17.84   | 19.00   |
|                            |            | 6       | 0         | 17.75                | 17.93   | 17.86   | 19.00   |
|                            | 16QAM      | 1       | 0         | 17.79                | 18.03   | 17.90   | 19.00   |
|                            |            | 1       | 2         | 17.76                | 17.83   | 17.89   | 19.00   |
|                            |            | 1       | 5         | 17.87                | 17.89   | 17.81   | 19.00   |
|                            |            | 3       | 0         | 17.72                | 17.95   | 17.72   | 19.00   |
|                            |            | 3       | 1         | 17.87                | 17.97   | 17.96   | 19.00   |
|                            |            | 3       | 3         | 17.79                | 17.88   | 17.83   | 19.00   |
|                            |            | 6       | 0         | 17.78                | 17.86   | 17.87   | 19.00   |
|                            | 64QAM      | 1       | 0         | 17.73                | 17.82   | 17.87   | 19.00   |
|                            |            | 1       | 2         | 17.73                | 17.88   | 17.80   | 19.00   |
|                            |            | 1       | 5         | 17.87                | 17.97   | 17.72   | 19.00   |
|                            |            | 3       | 0         | 17.88                | 17.75   | 17.95   | 19.00   |
|                            |            | 3       | 1         | 17.73                | 17.96   | 17.83   | 19.00   |
|                            |            | 3       | 3         | 17.91                | 17.91   | 17.89   | 19.00   |
|                            |            | 6       | 0         | 17.79                | 17.81   | 17.74   | 19.00   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz                       | QPSK       | 1       | 0         | 17.79                | 18.08   | 18.01   | 19.00   |
|                            |            | 1       | 7         | 17.76                | 17.97   | 17.84   | 19.00   |
|                            |            | 1       | 14        | 17.82                | 17.88   | 17.85   | 19.00   |
|                            |            | 8       | 0         | 17.82                | 17.88   | 17.67   | 19.00   |
|                            |            | 8       | 4         | 17.64                | 17.88   | 17.68   | 19.00   |
|                            |            | 8       | 7         | 17.98                | 17.79   | 17.96   | 19.00   |

|           |            |         |           |                   |                   |                   |         |
|-----------|------------|---------|-----------|-------------------|-------------------|-------------------|---------|
|           | 16QAM      | 15      | 0         | 17.74             | 17.76             | 17.77             | 19.00   |
|           |            | 1       | 0         | 17.89             | 17.87             | 18.01             | 19.00   |
|           |            | 1       | 7         | 17.87             | 17.94             | 17.84             | 19.00   |
|           |            | 1       | 14        | 17.88             | 18.01             | 17.93             | 19.00   |
|           |            | 8       | 0         | 17.75             | 17.84             | 17.95             | 19.00   |
|           |            | 8       | 4         | 17.74             | 17.83             | 17.98             | 19.00   |
|           |            | 8       | 7         | 17.88             | 18.00             | 17.90             | 19.00   |
|           | 64QAM      | 15      | 0         | 17.86             | 17.91             | 17.90             | 19.00   |
|           |            | 1       | 0         | 17.75             | 17.99             | 17.91             | 19.00   |
|           |            | 1       | 7         | 17.76             | 17.87             | 17.88             | 19.00   |
|           |            | 1       | 14        | 17.83             | 18.05             | 17.92             | 19.00   |
|           |            | 8       | 0         | 17.64             | 17.80             | 18.03             | 19.00   |
|           |            | 8       | 4         | 17.84             | 17.83             | 17.82             | 19.00   |
|           |            | 8       | 7         | 17.71             | 17.98             | 17.82             | 19.00   |
|           |            | 15      | 0         | 17.78             | 17.73             | 17.87             | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>131997 | Channel<br>132322 | Channel<br>132647 | Tune up |
| 5MHz      | QPSK       | 1       | 0         | 17.75             | 18.05             | 17.72             | 19.00   |
|           |            | 1       | 13        | 17.82             | 17.94             | 17.68             | 19.00   |
|           |            | 1       | 24        | 17.84             | 17.85             | 17.84             | 19.00   |
|           |            | 12      | 0         | 17.74             | 17.90             | 17.79             | 19.00   |
|           |            | 12      | 6         | 17.85             | 17.93             | 18.04             | 19.00   |
|           |            | 12      | 13        | 17.79             | 17.92             | 17.81             | 19.00   |
|           |            | 25      | 0         | 17.71             | 17.75             | 17.81             | 19.00   |
|           | 16QAM      | 1       | 0         | 17.77             | 17.91             | 17.79             | 19.00   |
|           |            | 1       | 13        | 17.94             | 17.79             | 17.90             | 19.00   |
|           |            | 1       | 24        | 17.71             | 17.87             | 17.89             | 19.00   |
|           |            | 12      | 0         | 17.83             | 17.93             | 17.81             | 19.00   |
|           |            | 12      | 6         | 17.86             | 17.89             | 17.92             | 19.00   |
|           |            | 12      | 13        | 17.73             | 17.97             | 17.82             | 19.00   |
|           |            | 25      | 0         | 17.79             | 17.87             | 18.01             | 19.00   |
|           | 64QAM      | 1       | 0         | 17.80             | 17.95             | 17.87             | 19.00   |
|           |            | 1       | 13        | 17.85             | 17.89             | 17.90             | 19.00   |
|           |            | 1       | 24        | 17.79             | 17.95             | 17.71             | 19.00   |
|           |            | 12      | 0         | 17.80             | 17.74             | 17.97             | 19.00   |
|           |            | 12      | 6         | 17.75             | 17.88             | 17.83             | 19.00   |
|           |            | 12      | 13        | 17.67             | 17.90             | 17.96             | 19.00   |
|           |            | 25      | 0         | 17.69             | 17.91             | 17.92             | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>132022 | Channel<br>132322 | Channel<br>132622 | Tune up |
| 10MHz     | QPSK       | 1       | 0         | 17.66             | 18.04             | 17.95             | 19.00   |
|           |            | 1       | 25        | 17.86             | 17.89             | 17.94             | 19.00   |
|           |            | 1       | 49        | 17.69             | 17.77             | 17.91             | 19.00   |
|           |            | 25      | 0         | 17.91             | 17.92             | 17.80             | 19.00   |
|           |            | 25      | 13        | 17.88             | 17.91             | 17.97             | 19.00   |
|           |            | 25      | 25        | 17.82             | 17.83             | 17.88             | 19.00   |
|           |            | 50      | 0         | 17.79             | 17.94             | 17.89             | 19.00   |
|           | 16QAM      | 1       | 0         | 17.76             | 17.93             | 17.91             | 19.00   |
|           |            | 1       | 25        | 17.88             | 17.76             | 17.72             | 19.00   |
|           |            | 1       | 49        | 17.81             | 17.94             | 18.00             | 19.00   |
|           |            | 25      | 0         | 17.72             | 17.94             | 17.79             | 19.00   |



|                  |                   |                |                  |                          |                          |                          |                |
|------------------|-------------------|----------------|------------------|--------------------------|--------------------------|--------------------------|----------------|
|                  |                   | 25             | 13               | 17.76                    | 17.82                    | 17.89                    | 19.00          |
|                  |                   | 25             | 25               | 17.89                    | 17.79                    | 17.86                    | 19.00          |
|                  |                   | 50             | 0                | 17.94                    | 18.03                    | 18.03                    | 19.00          |
|                  | 64QAM             | 1              | 0                | 17.79                    | 17.87                    | 17.87                    | 19.00          |
|                  |                   | 1              | 25               | 17.90                    | 17.89                    | 17.94                    | 19.00          |
|                  |                   | 1              | 49               | 17.89                    | 17.82                    | 18.05                    | 19.00          |
|                  |                   | 25             | 0                | 17.84                    | 17.85                    | 17.87                    | 19.00          |
|                  |                   | 25             | 13               | 17.70                    | 17.86                    | 17.81                    | 19.00          |
|                  |                   | 25             | 25               | 17.80                    | 17.86                    | 17.94                    | 19.00          |
|                  |                   | 50             | 0                | 17.86                    | 17.84                    | 17.87                    | 19.00          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b><br>132047 | <b>Channel</b><br>132322 | <b>Channel</b><br>132597 | <b>Tune up</b> |
| <b>15MHz</b>     | QPSK              | 1              | 0                | 17.85                    | 18.04                    | 17.84                    | 19.00          |
|                  |                   | 1              | 38               | 17.94                    | 17.94                    | 17.88                    | 19.00          |
|                  |                   | 1              | 74               | 17.80                    | 17.91                    | 17.94                    | 19.00          |
|                  |                   | 36             | 0                | 17.98                    | 17.87                    | 17.75                    | 19.00          |
|                  |                   | 36             | 18               | 17.76                    | 17.84                    | 17.78                    | 19.00          |
|                  |                   | 36             | 39               | 17.91                    | 17.75                    | 17.94                    | 19.00          |
|                  |                   | 75             | 0                | 17.69                    | 17.85                    | 17.78                    | 19.00          |
|                  | 16QAM             | 1              | 0                | 17.79                    | 17.87                    | 17.83                    | 19.00          |
|                  |                   | 1              | 38               | 17.71                    | 17.99                    | 17.88                    | 19.00          |
|                  |                   | 1              | 74               | 17.75                    | 18.00                    | 17.95                    | 19.00          |
|                  |                   | 36             | 0                | 17.72                    | 17.70                    | 18.00                    | 19.00          |
|                  |                   | 36             | 18               | 17.84                    | 17.80                    | 17.76                    | 19.00          |
|                  |                   | 36             | 39               | 17.72                    | 17.91                    | 17.82                    | 19.00          |
|                  |                   | 75             | 0                | 17.98                    | 17.90                    | 17.87                    | 19.00          |
|                  | 64QAM             | 1              | 0                | 17.74                    | 17.79                    | 18.03                    | 19.00          |
|                  |                   | 1              | 38               | 17.99                    | 17.83                    | 17.92                    | 19.00          |
|                  |                   | 1              | 74               | 17.84                    | 18.03                    | 17.86                    | 19.00          |
|                  |                   | 36             | 0                | 17.98                    | 18.01                    | 17.83                    | 19.00          |
|                  |                   | 36             | 18               | 17.78                    | 18.00                    | 17.77                    | 19.00          |
|                  |                   | 36             | 39               | 17.83                    | 17.85                    | 17.75                    | 19.00          |
|                  |                   | 75             | 0                | 17.89                    | 17.86                    | 17.96                    | 19.00          |
| <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b><br>132072 | <b>Channel</b><br>132322 | <b>Channel</b><br>132572 | <b>Tune up</b> |
| <b>20MHz</b>     | QPSK              | 1              | 0                | 17.98                    | 18.09                    | 18.06                    | 19.00          |
|                  |                   | 1              | 50               | 17.82                    | 17.83                    | 17.84                    | 19.00          |
|                  |                   | 1              | 99               | 17.82                    | 17.93                    | 17.77                    | 19.00          |
|                  |                   | 50             | 0                | 17.92                    | 17.98                    | 17.89                    | 19.00          |
|                  |                   | 50             | 25               | 17.77                    | 17.77                    | 17.79                    | 19.00          |
|                  |                   | 50             | 50               | 17.83                    | 17.87                    | 17.78                    | 19.00          |
|                  |                   | 100            | 0                | 17.76                    | 17.95                    | 17.89                    | 19.00          |
|                  | 16QAM             | 1              | 0                | 17.66                    | 17.94                    | 17.89                    | 19.00          |
|                  |                   | 1              | 50               | 17.76                    | 17.76                    | 17.75                    | 19.00          |
|                  |                   | 1              | 99               | 17.73                    | 17.95                    | 17.77                    | 19.00          |
|                  |                   | 50             | 0                | 17.91                    | 17.90                    | 17.86                    | 19.00          |
|                  |                   | 50             | 25               | 17.74                    | 17.99                    | 17.85                    | 19.00          |
|                  |                   | 50             | 50               | 17.87                    | 17.87                    | 17.77                    | 19.00          |
|                  |                   | 100            | 0                | 17.86                    | 17.76                    | 17.77                    | 19.00          |
|                  | 64QAM             | 1              | 0                | 17.80                    | 17.85                    | 17.86                    | 19.00          |
|                  |                   | 1              | 50               | 17.76                    | 17.85                    | 17.83                    | 19.00          |

|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 17.89 | 18.03 | 17.90 | 19.00 |
|  |  | 50  | 0  | 17.87 | 17.94 | 17.93 | 19.00 |
|  |  | 50  | 25 | 17.92 | 17.86 | 17.88 | 19.00 |
|  |  | 50  | 50 | 17.65 | 18.01 | 17.96 | 19.00 |
|  |  | 100 | 0  | 17.86 | 17.94 | 17.90 | 19.00 |

| LTE Band 66 Ant4 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 22.78                | 22.97   | 22.98   | 24.00   |
|                             |            | 1       | 2         | 22.67                | 22.86   | 23.00   | 24.00   |
|                             |            | 1       | 5         | 22.74                | 22.79   | 22.77   | 24.00   |
|                             |            | 3       | 0         | 22.74                | 22.83   | 22.87   | 24.00   |
|                             |            | 3       | 1         | 22.68                | 22.74   | 22.66   | 24.00   |
|                             |            | 3       | 3         | 22.66                | 22.73   | 22.85   | 24.00   |
|                             |            | 6       | 0         | 21.71                | 21.86   | 21.70   | 23.00   |
|                             | 16QAM      | 1       | 0         | 21.59                | 21.84   | 21.98   | 23.00   |
|                             |            | 1       | 2         | 21.80                | 21.85   | 21.65   | 23.00   |
|                             |            | 1       | 5         | 21.74                | 21.86   | 21.93   | 23.00   |
|                             |            | 3       | 0         | 21.66                | 21.92   | 21.71   | 23.00   |
|                             |            | 3       | 1         | 21.66                | 21.84   | 21.83   | 23.00   |
|                             |            | 3       | 3         | 21.58                | 21.76   | 21.60   | 23.00   |
|                             |            | 6       | 0         | 20.64                | 20.98   | 20.87   | 22.00   |
|                             | 64QAM      | 1       | 0         | 20.88                | 20.89   | 20.67   | 22.00   |
|                             |            | 1       | 2         | 20.89                | 20.89   | 20.86   | 22.00   |
|                             |            | 1       | 5         | 20.75                | 20.83   | 20.83   | 22.00   |
|                             |            | 3       | 0         | 20.59                | 20.76   | 20.79   | 22.00   |
|                             |            | 3       | 1         | 20.65                | 20.89   | 20.56   | 22.00   |
|                             |            | 3       | 3         | 20.52                | 20.62   | 20.70   | 22.00   |
|                             |            | 6       | 0         | 19.70                | 19.77   | 19.69   | 21.00   |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz                        | QPSK       | 1       | 0         | 22.74                | 23.00   | 23.01   | 24.00   |
|                             |            | 1       | 7         | 22.81                | 22.90   | 22.82   | 24.00   |
|                             |            | 1       | 14        | 22.67                | 22.87   | 22.87   | 24.00   |
|                             |            | 8       | 0         | 21.90                | 21.95   | 21.91   | 23.00   |
|                             |            | 8       | 4         | 21.78                | 21.75   | 21.77   | 23.00   |
|                             |            | 8       | 7         | 21.67                | 21.87   | 21.87   | 23.00   |
|                             |            | 15      | 0         | 21.70                | 21.86   | 21.81   | 23.00   |
|                             | 16QAM      | 1       | 0         | 21.71                | 21.82   | 21.81   | 23.00   |
|                             |            | 1       | 7         | 21.88                | 21.83   | 21.72   | 23.00   |
|                             |            | 1       | 14        | 21.84                | 21.89   | 21.97   | 23.00   |
|                             |            | 8       | 0         | 20.92                | 20.96   | 20.90   | 22.00   |
|                             |            | 8       | 4         | 20.65                | 20.80   | 20.92   | 22.00   |
|                             |            | 8       | 7         | 20.70                | 21.00   | 20.74   | 22.00   |
|                             |            | 15      | 0         | 20.78                | 20.95   | 20.88   | 22.00   |
|                             | 64QAM      | 1       | 0         | 20.76                | 20.90   | 20.85   | 22.00   |
|                             |            | 1       | 7         | 20.84                | 20.92   | 20.92   | 22.00   |

|           |            | 1       | 14        | 20.64   | 20.92   | 20.69   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 0         | 19.75   | 19.82   | 19.95   | 21.00   |
|           |            | 8       | 4         | 19.85   | 19.97   | 19.64   | 21.00   |
|           |            | 8       | 7         | 19.64   | 19.74   | 19.76   | 21.00   |
|           |            | 15      | 0         | 19.68   | 19.84   | 19.70   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 22.78   | 23.08   | 22.87   | 24.00   |
|           |            | 1       | 13        | 22.77   | 22.90   | 22.85   | 24.00   |
|           |            | 1       | 24        | 22.75   | 22.89   | 22.88   | 24.00   |
|           |            | 12      | 0         | 21.79   | 22.02   | 21.88   | 23.00   |
|           |            | 12      | 6         | 21.86   | 21.76   | 21.84   | 23.00   |
|           |            | 12      | 13        | 21.77   | 21.93   | 21.84   | 23.00   |
|           |            | 25      | 0         | 21.77   | 21.92   | 21.63   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.62   | 21.82   | 21.82   | 23.00   |
|           |            | 1       | 13        | 21.76   | 21.91   | 21.70   | 23.00   |
|           |            | 1       | 24        | 21.71   | 21.80   | 21.91   | 23.00   |
|           |            | 12      | 0         | 20.89   | 20.88   | 20.75   | 22.00   |
|           |            | 12      | 6         | 20.72   | 20.97   | 20.89   | 22.00   |
|           |            | 12      | 13        | 20.79   | 20.96   | 20.76   | 22.00   |
|           |            | 25      | 0         | 20.72   | 20.92   | 20.95   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.91   | 20.89   | 20.75   | 22.00   |
|           |            | 1       | 13        | 20.93   | 20.93   | 20.83   | 22.00   |
|           |            | 1       | 24        | 20.75   | 20.86   | 20.75   | 22.00   |
|           |            | 12      | 0         | 19.71   | 19.78   | 19.77   | 21.00   |
|           |            | 12      | 6         | 19.80   | 19.88   | 19.79   | 21.00   |
|           |            | 12      | 13        | 19.63   | 19.79   | 19.79   | 21.00   |
|           |            | 25      | 0         | 19.63   | 19.83   | 19.78   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 22.87   | 23.05   | 22.86   | 24.00   |
|           |            | 1       | 25        | 22.79   | 22.99   | 22.90   | 24.00   |
|           |            | 1       | 49        | 22.66   | 22.92   | 22.81   | 24.00   |
|           |            | 25      | 0         | 21.86   | 21.89   | 21.84   | 23.00   |
|           |            | 25      | 13        | 21.72   | 21.83   | 21.81   | 23.00   |
|           |            | 25      | 25        | 21.85   | 21.91   | 21.88   | 23.00   |
|           |            | 50      | 0         | 21.72   | 21.81   | 21.82   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.69   | 21.79   | 21.87   | 23.00   |
|           |            | 1       | 25        | 21.81   | 21.97   | 21.74   | 23.00   |
|           |            | 1       | 49        | 21.81   | 21.96   | 21.94   | 23.00   |
|           |            | 25      | 0         | 20.75   | 20.95   | 20.78   | 22.00   |
|           |            | 25      | 13        | 20.62   | 20.83   | 20.91   | 22.00   |
|           |            | 25      | 25        | 20.65   | 20.90   | 20.76   | 22.00   |
|           |            | 50      | 0         | 20.64   | 20.94   | 20.80   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.82   | 20.89   | 20.83   | 22.00   |
|           |            | 1       | 25        | 20.74   | 20.87   | 20.97   | 22.00   |
|           |            | 1       | 49        | 20.60   | 20.86   | 20.79   | 22.00   |
|           |            | 25      | 0         | 19.73   | 19.86   | 19.96   | 21.00   |
|           |            | 25      | 13        | 19.84   | 19.93   | 19.76   | 21.00   |
|           |            | 25      | 25        | 19.72   | 19.72   | 19.78   | 21.00   |
|           |            | 50      | 0         | 19.70   | 19.84   | 19.83   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 22.82   | 22.90   | 23.00   | 24.00   |
|           |            | 1       | 38        | 22.69   | 23.03   | 22.98   | 24.00   |
|           |            | 1       | 74        | 22.63   | 22.90   | 22.83   | 24.00   |
|           |            | 36      | 0         | 21.94   | 22.00   | 21.87   | 23.00   |
|           |            | 36      | 18        | 21.73   | 21.82   | 21.78   | 23.00   |
|           |            | 36      | 39        | 21.76   | 21.97   | 21.84   | 23.00   |
|           |            | 75      | 0         | 21.70   | 21.96   | 21.73   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.61   | 21.78   | 21.97   | 23.00   |
|           |            | 1       | 38        | 21.87   | 21.84   | 21.81   | 23.00   |
|           |            | 1       | 74        | 21.80   | 21.92   | 21.91   | 23.00   |
|           |            | 36      | 0         | 20.74   | 20.88   | 20.81   | 22.00   |
|           |            | 36      | 18        | 20.64   | 20.90   | 20.87   | 22.00   |
|           |            | 36      | 39        | 20.69   | 20.95   | 20.78   | 22.00   |
|           |            | 75      | 0         | 20.70   | 21.00   | 20.92   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.89   | 20.83   | 20.74   | 22.00   |
|           |            | 1       | 38        | 20.88   | 20.90   | 20.92   | 22.00   |
|           |            | 1       | 74        | 20.66   | 21.01   | 20.82   | 22.00   |
|           |            | 36      | 0         | 19.72   | 19.88   | 19.78   | 21.00   |
|           |            | 36      | 18        | 19.84   | 19.88   | 19.68   | 21.00   |
|           |            | 36      | 39        | 19.56   | 19.73   | 19.74   | 21.00   |
|           |            | 75      | 0         | 19.75   | 19.88   | 19.72   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 22.95   | 23.10   | 23.04   | 24.00   |
|           |            | 1       | 50        | 22.83   | 23.07   | 23.02   | 24.00   |
|           |            | 1       | 99        | 22.77   | 22.97   | 22.93   | 24.00   |
|           |            | 50      | 0         | 21.97   | 22.07   | 22.02   | 23.00   |
|           |            | 50      | 25        | 21.91   | 21.91   | 21.88   | 23.00   |
|           |            | 50      | 50        | 21.87   | 21.99   | 22.01   | 23.00   |
|           |            | 100     | 0         | 21.90   | 21.99   | 21.84   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.79   | 21.97   | 22.02   | 23.00   |
|           |            | 1       | 50        | 21.93   | 22.02   | 21.84   | 23.00   |
|           |            | 1       | 99        | 21.90   | 21.98   | 22.00   | 23.00   |
|           |            | 50      | 0         | 20.93   | 21.07   | 20.95   | 22.00   |
|           |            | 50      | 25        | 20.80   | 20.99   | 21.01   | 22.00   |
|           |            | 50      | 50        | 20.81   | 21.03   | 20.84   | 22.00   |
|           |            | 100     | 0         | 20.84   | 21.03   | 20.97   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.93   | 20.95   | 20.86   | 22.00   |
|           |            | 1       | 50        | 20.94   | 21.00   | 21.01   | 22.00   |
|           |            | 1       | 99        | 20.78   | 21.03   | 20.85   | 22.00   |
|           |            | 50      | 0         | 19.81   | 19.94   | 19.98   | 21.00   |
|           |            | 50      | 25        | 19.91   | 20.07   | 19.84   | 21.00   |
|           |            | 50      | 50        | 19.77   | 19.92   | 19.85   | 21.00   |
|           |            | 100     | 0         | 19.83   | 19.97   | 19.90   | 21.00   |

|                             |                      |
|-----------------------------|----------------------|
| LTE Band 71 Ant0 Full Power | Conducted Power(dBm) |
|-----------------------------|----------------------|

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 133147  | 133297  | 133447  |         |
| 5MHz      | QPSK       | 1       | 0         | 22.64   | 22.49   | 22.42   | 23.50   |
|           |            | 1       | 12        | 22.66   | 22.63   | 22.52   | 23.50   |
|           |            | 1       | 24        | 22.56   | 22.41   | 22.35   | 23.50   |
|           |            | 12      | 0         | 21.70   | 21.58   | 21.52   | 22.50   |
|           |            | 12      | 6         | 21.72   | 21.62   | 21.63   | 22.50   |
|           |            | 12      | 13        | 21.67   | 21.59   | 21.55   | 22.50   |
|           |            | 25      | 0         | 21.68   | 21.56   | 21.48   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.92   | 21.63   | 21.64   | 22.50   |
|           |            | 1       | 12        | 21.93   | 21.74   | 21.94   | 22.50   |
|           |            | 1       | 24        | 21.75   | 21.60   | 21.71   | 22.50   |
|           |            | 12      | 0         | 20.71   | 20.54   | 20.52   | 21.50   |
|           |            | 12      | 6         | 20.70   | 20.56   | 20.64   | 21.50   |
|           |            | 12      | 13        | 20.64   | 20.57   | 20.57   | 21.50   |
|           |            | 25      | 0         | 20.69   | 20.53   | 20.55   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.62   | 20.38   | 20.32   | 21.50   |
|           |            | 1       | 12        | 20.56   | 20.50   | 20.47   | 21.50   |
|           |            | 1       | 24        | 20.44   | 20.27   | 20.16   | 21.50   |
|           |            | 12      | 0         | 19.54   | 19.54   | 19.49   | 20.50   |
|           |            | 12      | 6         | 19.52   | 19.45   | 19.43   | 20.50   |
|           |            | 12      | 13        | 19.57   | 19.58   | 19.41   | 20.50   |
|           |            | 25      | 0         | 19.57   | 19.46   | 19.48   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 133172  | 133297  | 133442  |         |
| 10MHz     | QPSK       | 1       | 0         | 22.62   | 22.54   | 22.62   | 23.50   |
|           |            | 1       | 24        | 22.51   | 22.50   | 22.55   | 23.50   |
|           |            | 1       | 49        | 22.48   | 22.41   | 22.52   | 23.50   |
|           |            | 25      | 0         | 21.67   | 21.60   | 21.51   | 22.50   |
|           |            | 25      | 12        | 21.66   | 21.59   | 21.51   | 22.50   |
|           |            | 25      | 25        | 21.58   | 21.58   | 21.50   | 22.50   |
|           |            | 50      | 0         | 21.64   | 21.56   | 21.51   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.88   | 21.80   | 21.50   | 22.50   |
|           |            | 1       | 24        | 21.80   | 21.74   | 21.47   | 22.50   |
|           |            | 1       | 49        | 21.82   | 21.67   | 21.45   | 22.50   |
|           |            | 25      | 0         | 20.72   | 20.60   | 20.53   | 21.50   |
|           |            | 25      | 12        | 20.73   | 20.61   | 20.54   | 21.50   |
|           |            | 25      | 25        | 20.66   | 20.65   | 20.53   | 21.50   |
|           |            | 50      | 0         | 20.60   | 20.54   | 20.50   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.51   | 20.35   | 20.48   | 21.50   |
|           |            | 1       | 24        | 20.33   | 20.48   | 20.45   | 21.50   |
|           |            | 1       | 49        | 20.34   | 20.22   | 20.40   | 21.50   |
|           |            | 25      | 0         | 19.64   | 19.45   | 19.32   | 20.50   |
|           |            | 25      | 12        | 19.59   | 19.55   | 19.32   | 20.50   |
|           |            | 25      | 25        | 19.58   | 19.47   | 19.49   | 20.50   |
|           |            | 50      | 0         | 19.55   | 19.49   | 19.49   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 133197  | 133297  | 133397  |         |
| 15MHz     | QPSK       | 1       | 0         | 22.51   | 22.53   | 22.42   | 23.50   |
|           |            | 1       | 38        | 22.35   | 22.38   | 22.36   | 23.50   |
|           |            | 1       | 74        | 22.39   | 22.36   | 22.32   | 23.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 38      | 0         | 21.49   | 21.52   | 21.51   | 22.50   |
|           |            | 38      | 18        | 21.53   | 21.48   | 21.46   | 22.50   |
|           |            | 38      | 37        | 21.52   | 21.47   | 21.49   | 22.50   |
|           |            | 75      | 0         | 21.56   | 21.45   | 21.47   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.78   | 21.73   | 21.64   | 22.50   |
|           |            | 1       | 38        | 21.66   | 21.70   | 21.61   | 22.50   |
|           |            | 1       | 74        | 21.64   | 21.68   | 21.62   | 22.50   |
|           |            | 38      | 0         | 20.48   | 20.54   | 20.52   | 21.50   |
|           |            | 38      | 18        | 20.54   | 20.50   | 20.47   | 21.50   |
|           |            | 38      | 37        | 20.55   | 20.53   | 20.51   | 21.50   |
|           |            | 75      | 0         | 20.55   | 20.48   | 20.44   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.48   | 20.40   | 20.42   | 21.50   |
|           |            | 1       | 38        | 20.21   | 20.33   | 20.24   | 21.50   |
|           |            | 1       | 74        | 20.37   | 20.20   | 20.21   | 21.50   |
|           |            | 38      | 0         | 19.34   | 19.42   | 19.44   | 20.50   |
|           |            | 38      | 18        | 19.52   | 19.33   | 19.31   | 20.50   |
|           |            | 38      | 37        | 19.52   | 19.43   | 19.32   | 20.50   |
|           |            | 75      | 0         | 19.44   | 19.32   | 19.31   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 133322  | 133297  | 133372  |         |
| 20MHz     | QPSK       | 1       | 0         | 22.44   | 22.67   | 22.61   | 23.50   |
|           |            | 1       | 49        | 22.38   | 22.49   | 22.48   | 23.50   |
|           |            | 1       | 99        | 22.40   | 22.38   | 22.39   | 23.50   |
|           |            | 50      | 0         | 21.47   | 21.61   | 21.56   | 22.50   |
|           |            | 50      | 25        | 21.51   | 21.45   | 21.58   | 22.50   |
|           |            | 50      | 50        | 21.50   | 21.42   | 21.51   | 22.50   |
|           |            | 100     | 0         | 21.56   | 21.41   | 21.54   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.66   | 21.42   | 21.47   | 22.50   |
|           |            | 1       | 49        | 21.58   | 21.44   | 21.31   | 22.50   |
|           |            | 1       | 99        | 21.58   | 21.32   | 21.28   | 22.50   |
|           |            | 50      | 0         | 20.50   | 20.40   | 20.53   | 21.50   |
|           |            | 50      | 25        | 20.53   | 20.45   | 20.54   | 21.50   |
|           |            | 50      | 50        | 20.53   | 20.40   | 20.44   | 21.50   |
|           |            | 100     | 0         | 20.53   | 20.45   | 20.59   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.25   | 20.61   | 20.56   | 21.50   |
|           |            | 1       | 49        | 20.34   | 20.41   | 20.29   | 21.50   |
|           |            | 1       | 99        | 20.27   | 20.31   | 20.31   | 21.50   |
|           |            | 50      | 0         | 19.42   | 19.58   | 19.50   | 20.50   |
|           |            | 50      | 25        | 19.45   | 19.43   | 19.52   | 20.50   |
|           |            | 50      | 50        | 19.37   | 19.30   | 19.41   | 20.50   |
|           |            | 100     | 0         | 19.37   | 19.40   | 19.38   | 20.50   |

## 4. Conducted Power of LTE DL CA

| CA List        | PCC     |     |       |             |         |      |     |           | SCC1    |       |             |         | SCC2    |       |             |         | SCC3 |       |             |         | Power           |                 |
|----------------|---------|-----|-------|-------------|---------|------|-----|-----------|---------|-------|-------------|---------|---------|-------|-------------|---------|------|-------|-------------|---------|-----------------|-----------------|
|                | LTE     | Ant | BW    | UL          | UL      |      | UL# | UL        | LTE     | BW    | DL          | DL      | LTE     | BW    | DL          | DL      | LTE  | BW    | DL          | DL      | With CA         | Without CA      |
|                | Band    |     | (MHz) | Freq. (MHz) | Channel | Mod. | RB  | RB Offset | Band    | (MHz) | Freq. (MHz) | Channel | Band    | (MHz) | Freq. (MHz) | Channel | Band | (MHz) | Freq. (MHz) | Channel | Tx. Power (dBm) | Tx. Power (dBm) |
| CA_12A-66A-66A | Band 12 | 0   | 10M   | 707.5       | 23095   | QPSK | 1   | 0         | Band 66 | 20M   | 2145        | 66786   | Band 66 | 5M    | 2177.5      | 67111   |      |       |             |         | 22.69           | 22.76           |
|                | Band    | 0   | 20M   | 1745        | 132322  | QPSK | 1   | 0         | Band 66 | 5M    | 2177.5      | 67111   | Band 12 | 10M   | 737.5       | 5095    |      |       |             |         | 23.32           | 23.37           |

[illegible]

|               |         |   |     |       |        |      |   |   |         |    |        |       |         |     |       |       |         |    |        |       |       |       |
|---------------|---------|---|-----|-------|--------|------|---|---|---------|----|--------|-------|---------|-----|-------|-------|---------|----|--------|-------|-------|-------|
| CA_5B-66A-66A | 66      |   |     |       |        |      |   |   |         |    |        |       |         |     |       |       |         |    |        |       |       |       |
|               | Band 5  | 0 | 10M | 834.1 | 20501  | QPSK | 1 | 0 | Band 5  | 5M | 889    | 2600  | Band 66 | 20M | 2145  | 66786 | Band 66 | 5M | 2177.5 | 67111 | 22.65 | 22.67 |
|               | Band 66 | 0 | 20M | 1745  | 132322 | QPSK | 1 | 0 | Band 66 | 5M | 2177.5 | 67111 | Band 5  | 10M | 881.5 | 2525  | Band 5  | 5M | 889    | 2600  | 23.2  | 23.37 |

## 5. Conducted Power of 5G NR

| N2 Ant0&Ant4 Full Power |                         |            |           | Conducted Power(dBm) |         |         |         |
|-------------------------|-------------------------|------------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz               |                         |            |           |                      |         |         |         |
| Bandwidth               | Modulation              | RB size    | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |            |           | 372000               | 376000  | 38000   |         |
| 20MHz                   | DFT-s-OFDM<br>PI/2 BPSK | 1          | 1         | 23.07                | 23.19   | 23.06   | 24.50   |
|                         |                         | 1          | 53        | 22.99                | 23.12   | 23.10   | 24.50   |
|                         |                         | 1          | 104       | 22.92                | 23.16   | 23.07   | 24.50   |
|                         |                         | 50         | 0         | 22.59                | 22.77   | 22.66   | 24.00   |
|                         |                         | 50         | 28        | 23.03                | 23.16   | 23.04   | 24.50   |
|                         |                         | 50         | 56        | 22.50                | 22.73   | 22.67   | 24.00   |
|                         |                         | 100        | 0         | 22.51                | 22.76   | 22.61   | 24.00   |
|                         | DFT-s-OFDM<br>QPSK      | 1          | 1         | 23.05                | 23.21   | 23.17   | 24.50   |
|                         |                         | 1          | 53        | 23.02                | 23.18   | 23.10   | 24.50   |
|                         |                         | 1          | 104       | 23.00                | 23.13   | 22.99   | 24.50   |
|                         |                         | 50         | 0         | 22.00                | 22.16   | 22.14   | 23.50   |
|                         |                         | 50         | 28        | 22.94                | 23.17   | 23.10   | 24.50   |
|                         |                         | 50         | 56        | 21.93                | 22.13   | 22.04   | 23.50   |
|                         |                         | 100        | 0         | 21.93                | 22.16   | 22.05   | 23.50   |
|                         | DFT-s-OFDM<br>16QAM     | 1          | 1         | 22.02                | 22.17   | 22.14   | 23.50   |
|                         | DFT-s-OFDM<br>64QAM     | 1          | 1         | 20.44                | 20.57   | 20.45   | 22.00   |
|                         | DFT-s-OFDM<br>256QAM    | 1          | 1         | 18.58                | 18.82   | 18.73   | 20.00   |
|                         | Bandwidth               | Modulation | RB size   | RB offset            | Channel | Channel | Channel |
|                         |                         |            |           | 372000               | 376000  | 38000   |         |
| 20MHz                   | CP-OFDM<br>QPSK         | 1          | 1         | 21.61                | 21.77   | 21.66   | 23.00   |
| Bandwidth               | Modulation              | RB size    | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |            |           | 371500               | 376000  | 380500  |         |
| 15MHz                   | DFT-s-OFDM<br>QPSK      | 1          | 1         | 22.57                | 22.77   | 22.69   | 24.50   |
| Bandwidth               | Modulation              | RB size    | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |            |           | 371000               | 376000  | 381000  |         |
| 10MHz                   | DFT-s-OFDM<br>QPSK      | 1          | 1         | 22.55                | 22.78   | 22.65   | 24.50   |
| Bandwidth               | Modulation              | RB size    | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |            |           | 370500               | 376000  | 381500  |         |
| 5MHz                    | DFT-s-OFDM<br>QPSK      | 1          | 1         | 22.53                | 22.70   | 22.67   | 24.50   |



| N2 Ant0 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz           |                         |         |           |                      |         |         |         |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 372000               | 376000  | 38000   |         |
| 20MHz               | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 16.55                | 16.64   | 16.44   | 18.00   |
|                     |                         | 1       | 53        | 16.40                | 16.56   | 16.57   | 18.00   |
|                     |                         | 1       | 104       | 16.29                | 16.56   | 16.46   | 18.00   |
|                     |                         | 50      | 0         | 16.48                | 16.60   | 16.57   | 18.00   |
|                     |                         | 50      | 28        | 16.43                | 16.62   | 16.41   | 18.00   |
|                     |                         | 50      | 56        | 16.38                | 16.54   | 16.63   | 18.00   |
|                     |                         | 100     | 0         | 16.44                | 16.70   | 16.50   | 18.00   |
|                     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 16.41                | 16.66   | 16.55   | 18.00   |
|                     |                         | 1       | 53        | 16.50                | 16.63   | 16.57   | 18.00   |
|                     |                         | 1       | 104       | 16.36                | 16.43   | 16.47   | 18.00   |
|                     |                         | 50      | 0         | 16.45                | 16.41   | 16.43   | 18.00   |
|                     |                         | 50      | 28        | 16.35                | 16.50   | 16.45   | 18.00   |
|                     |                         | 50      | 56        | 16.41                | 16.42   | 16.41   | 18.00   |
|                     |                         | 100     | 0         | 16.30                | 16.48   | 16.41   | 18.00   |
|                     | DFT-s-OFDM<br>16QAM     | 1       | 1         | 16.38                | 16.59   | 16.59   | 18.00   |
|                     | DFT-s-OFDM<br>64QAM     | 1       | 1         | 16.29                | 16.41   | 16.26   | 18.00   |
|                     | DFT-s-OFDM<br>256QAM    | 1       | 1         | 16.47                | 16.75   | 16.54   | 18.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 372000               | 376000  | 38000   |         |
| 20MHz               | CP-OFDM<br>QPSK         | 1       | 1         | 15.03                | 15.16   | 15.10   | 16.50   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 371500               | 376000  | 380500  |         |
| 15MHz               | DFT-s-OFDM<br>QPSK      | 1       | 1         | 16.34                | 16.42   | 16.33   | 18.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 371000               | 376000  | 381000  |         |
| 10MHz               | DFT-s-OFDM<br>QPSK      | 1       | 1         | 16.23                | 16.40   | 16.25   | 18.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 370500               | 376000  | 381500  |         |
| 5MHz                | DFT-s-OFDM<br>QPSK      | 1       | 1         | 16.26                | 16.33   | 16.45   | 18.00   |

| N2 Ant0 Hotspot on |                         |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz          |                         |         |           |                      |         |         |         |
| Bandwidth          | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                         |         |           | 372000               | 376000  | 38000   |         |
| 20MHz              | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 18.88                | 19.04   | 18.98   | 20.50   |
|                    |                         | 1       | 53        | 18.99                | 19.06   | 19.02   | 20.50   |
|                    |                         | 1       | 104       | 18.90                | 19.07   | 18.97   | 20.50   |
|                    |                         | 50      | 0         | 19.02                | 19.07   | 19.15   | 20.50   |

|           |                      |         |           |                   |                   |                   |         |
|-----------|----------------------|---------|-----------|-------------------|-------------------|-------------------|---------|
|           |                      | 50      | 28        | 18.95             | 19.15             | 18.96             | 20.50   |
|           |                      | 50      | 56        | 18.83             | 19.18             | 19.15             | 20.50   |
|           |                      | 100     | 0         | 18.83             | 19.19             | 19.04             | 20.50   |
|           | DFT-s-OFDM<br>QPSK   | 1       | 1         | 18.90             | 19.19             | 18.97             | 20.50   |
|           |                      | 1       | 53        | 18.88             | 18.99             | 18.90             | 20.50   |
|           |                      | 1       | 104       | 18.86             | 19.07             | 18.87             | 20.50   |
|           |                      | 50      | 0         | 18.89             | 19.05             | 18.95             | 20.50   |
|           |                      | 50      | 28        | 18.94             | 19.14             | 19.02             | 20.50   |
|           |                      | 50      | 56        | 18.88             | 18.96             | 18.94             | 20.50   |
|           |                      | 100     | 0         | 18.74             | 19.05             | 18.99             | 20.50   |
|           | DFT-s-OFDM<br>16QAM  | 1       | 1         | 18.90             | 19.01             | 19.04             | 20.50   |
|           | DFT-s-OFDM<br>64QAM  | 1       | 1         | 18.90             | 19.00             | 18.94             | 20.50   |
|           | DFT-s-OFDM<br>256QAM | 1       | 1         | 18.54             | 18.80             | 18.72             | 20.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel<br>372000 | Channel<br>376000 | Channel<br>38000  | Tune up |
| 20MHz     | CP-OFDM<br>QPSK      | 1       | 1         | 17.41             | 17.63             | 17.48             | 19.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel<br>371500 | Channel<br>376000 | Channel<br>380500 | Tune up |
| 15MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 18.85             | 19.11             | 18.81             | 20.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel<br>371000 | Channel<br>376000 | Channel<br>381000 | Tune up |
| 10MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 18.84             | 19.04             | 18.85             | 20.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel<br>370500 | Channel<br>376000 | Channel<br>381500 | Tune up |
| 5MHz      | DFT-s-OFDM<br>QPSK   | 1       | 1         | 18.81             | 19.09             | 18.91             | 20.50   |

| N2 Ant0 Sensor on |                         |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz         |                         |         |           |                      |         |         |         |
| Bandwidth         | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |                         |         |           | 372000               | 376000  | 38000   |         |
| 20MHz             | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 18.88                | 19.04   | 18.98   | 20.50   |
|                   |                         | 1       | 53        | 18.99                | 19.06   | 19.02   | 20.50   |
|                   |                         | 1       | 104       | 18.90                | 19.07   | 18.97   | 20.50   |
|                   |                         | 50      | 0         | 19.02                | 19.07   | 19.15   | 20.50   |
|                   |                         | 50      | 28        | 18.95                | 19.15   | 18.96   | 20.50   |
|                   |                         | 50      | 56        | 18.83                | 19.18   | 19.15   | 20.50   |
|                   |                         | 100     | 0         | 18.83                | 19.19   | 19.04   | 20.50   |
|                   | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.90                | 19.19   | 18.97   | 20.50   |
|                   |                         | 1       | 53        | 18.88                | 18.99   | 18.90   | 20.50   |
|                   |                         | 1       | 104       | 18.86                | 19.07   | 18.87   | 20.50   |
|                   |                         | 50      | 0         | 18.89                | 19.05   | 18.95   | 20.50   |
|                   |                         | 50      | 28        | 18.94                | 19.14   | 19.02   | 20.50   |

|           |                   |         |           |         |         |         |         |
|-----------|-------------------|---------|-----------|---------|---------|---------|---------|
|           |                   | 50      | 56        | 18.88   | 18.96   | 18.94   | 20.50   |
|           |                   | 100     | 0         | 18.74   | 19.05   | 18.99   | 20.50   |
|           | DFT-s-OFDM 16QAM  | 1       | 1         | 18.90   | 19.01   | 19.04   | 20.50   |
|           | DFT-s-OFDM 64QAM  | 1       | 1         | 18.90   | 19.00   | 18.94   | 20.50   |
|           | DFT-s-OFDM 256QAM | 1       | 1         | 18.54   | 18.80   | 18.72   | 20.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 372000  | 376000  | 38000   |         |
| 20MHz     | CP-OFDM QPSK      | 1       | 1         | 17.41   | 17.63   | 17.48   | 19.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 371500  | 376000  | 380500  |         |
| 15MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.85   | 19.11   | 18.81   | 20.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 371000  | 376000  | 381000  |         |
| 10MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.84   | 19.04   | 18.85   | 20.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 370500  | 376000  | 381500  |         |
| 5MHz      | DFT-s-OFDM QPSK   | 1       | 1         | 18.81   | 19.09   | 18.91   | 20.50   |

| N5 Ant0 Full Power |                         |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz          |                         |         |           |                      |         |         |         |
| Bandwidth          | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                         |         |           | 166800               | 167300  | 167800  |         |
| 20MHz              | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 23.24                | 23.39   | 23.29   | 24.50   |
|                    |                         | 1       | 53        | 23.17                | 23.31   | 23.20   | 24.50   |
|                    |                         | 1       | 104       | 23.20                | 23.34   | 23.31   | 24.50   |
|                    |                         | 50      | 0         | 22.80                | 22.95   | 22.90   | 24.00   |
|                    |                         | 50      | 28        | 23.13                | 23.36   | 23.34   | 24.50   |
|                    |                         | 50      | 56        | 22.68                | 22.91   | 22.88   | 24.00   |
|                    |                         | 100     | 0         | 22.78                | 22.93   | 22.90   | 24.00   |
|                    | DFT-s-OFDM<br>QPSK      | 1       | 1         | 23.28                | 23.46   | 23.44   | 24.50   |
|                    |                         | 1       | 53        | 23.19                | 23.41   | 23.38   | 24.50   |
|                    |                         | 1       | 104       | 23.18                | 23.38   | 23.31   | 24.50   |
|                    |                         | 50      | 0         | 22.21                | 22.33   | 22.24   | 23.50   |
|                    |                         | 50      | 28        | 23.23                | 23.41   | 23.34   | 24.50   |
|                    |                         | 50      | 56        | 22.13                | 22.31   | 22.27   | 23.50   |
|                    |                         | 100     | 0         | 22.21                | 22.36   | 22.27   | 23.50   |
|                    | DFT-s-OFDM<br>16QAM     | 1       | 1         | 22.06                | 22.26   | 22.21   | 23.50   |
|                    | DFT-s-OFDM<br>64QAM     | 1       | 1         | 20.61                | 20.83   | 20.69   | 22.00   |
|                    | DFT-s-OFDM<br>256QAM    | 1       | 1         | 18.53                | 18.75   | 18.63   | 20.00   |

| Bandwidth    | Modulation         | RB size | RB offset | Channel<br>166800 | Channel<br>167300 | Channel<br>167800 | Tune up |
|--------------|--------------------|---------|-----------|-------------------|-------------------|-------------------|---------|
| <b>20MHz</b> | CP-OFDM<br>QPSK    | 1       | 1         | 21.75             | 21.99             | 21.93             | 23.00   |
| Bandwidth    | Modulation         | RB size | RB offset | Channel<br>166300 | Channel<br>167300 | Channel<br>168300 | Tune up |
| <b>15MHz</b> | DFT-s-OFDM<br>QPSK | 1       | 1         | 22.83             | 22.96             | 22.94             | 24.50   |
| Bandwidth    | Modulation         | RB size | RB offset | Channel<br>165800 | Channel<br>167300 | Channel<br>168800 | Tune up |
| <b>10MHz</b> | DFT-s-OFDM<br>QPSK | 1       | 1         | 22.83             | 23.01             | 22.92             | 24.50   |
| Bandwidth    | Modulation         | RB size | RB offset | Channel<br>165300 | Channel<br>167300 | Channel<br>169300 | Tune up |
| <b>5MHz</b>  | DFT-s-OFDM<br>QPSK | 1       | 1         | 22.76             | 22.96             | 22.92             | 24.50   |

| N5 Ant0 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz           |                         |         |           |                      |         |         |         |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 166800               | 167300  | 167800  |         |
| 20MHz               | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 21.07                | 21.39   | 21.22   | 22.50   |
|                     |                         | 1       | 53        | 21.13                | 21.18   | 21.16   | 22.50   |
|                     |                         | 1       | 104       | 21.20                | 21.22   | 21.27   | 22.50   |
|                     |                         | 50      | 0         | 21.17                | 21.41   | 21.23   | 22.50   |
|                     |                         | 50      | 28        | 21.08                | 21.28   | 21.23   | 22.50   |
|                     |                         | 50      | 56        | 20.99                | 21.32   | 21.37   | 22.50   |
|                     |                         | 100     | 0         | 21.14                | 21.34   | 21.29   | 22.50   |
|                     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.25                | 21.39   | 21.37   | 22.50   |
|                     |                         | 1       | 53        | 21.09                | 21.21   | 21.36   | 22.50   |
|                     |                         | 1       | 104       | 21.13                | 21.20   | 21.30   | 22.50   |
|                     |                         | 50      | 0         | 21.09                | 21.12   | 21.08   | 22.50   |
|                     |                         | 50      | 28        | 21.02                | 21.25   | 21.21   | 22.50   |
|                     |                         | 50      | 56        | 20.90                | 21.20   | 21.18   | 22.50   |
|                     |                         | 100     | 0         | 21.09                | 21.19   | 21.17   | 22.50   |
|                     | DFT-s-OFDM<br>16QAM     | 1       | 1         | 21.02                | 21.10   | 21.09   | 22.50   |
|                     | DFT-s-OFDM<br>64QAM     | 1       | 1         | 20.46                | 20.75   | 20.63   | 22.00   |
|                     | DFT-s-OFDM<br>256QAM    | 1       | 1         | 18.50                | 18.65   | 18.50   | 20.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 166800               | 167300  | 167800  |         |
| 20MHz               | CP-OFDM<br>QPSK         | 1       | 1         | 19.67                | 19.85   | 19.81   | 21.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 166300               | 167300  | 168300  |         |
| 15MHz               | DFT-s-OFDM<br>QPSK      | 1       | 1         | 20.78                | 20.77   | 20.89   | 22.50   |

| Bandwidth | Modulation         | RB size | RB offset | Channel<br>165800 | Channel<br>167300 | Channel<br>168800 | Tune up |
|-----------|--------------------|---------|-----------|-------------------|-------------------|-------------------|---------|
| 10MHz     | DFT-s-OFDM<br>QPSK | 1       | 1         | 20.83             | 20.90             | 20.89             | 22.50   |
| Bandwidth | Modulation         | RB size | RB offset | Channel<br>165300 | Channel<br>167300 | Channel<br>169300 | Tune up |
| 5MHz      | DFT-s-OFDM<br>QPSK | 1       | 1         | 20.65             | 20.77             | 20.73             | 22.50   |

| N12 Ant0 Full Power |                         |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz           |                         |         |           |                      |         |         |         |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 141300               | 141500  | 141700  |         |
| 15MHz               | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 23.39                | 23.61   | 23.47   | 24.50   |
|                     |                         | 1       | 40        | 23.26                | 23.49   | 23.46   | 24.50   |
|                     |                         | 1       | 77        | 23.23                | 23.43   | 23.28   | 24.50   |
|                     |                         | 36      | 0         | 22.90                | 23.09   | 23.01   | 24.00   |
|                     |                         | 36      | 22        | 23.31                | 23.48   | 23.36   | 24.50   |
|                     |                         | 36      | 43        | 22.86                | 23.03   | 22.97   | 24.00   |
|                     |                         | 75      | 0         | 22.82                | 23.06   | 23.04   | 24.00   |
|                     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 23.41                | 23.65   | 23.54   | 24.50   |
|                     |                         | 1       | 40        | 23.35                | 23.58   | 23.43   | 24.50   |
|                     |                         | 1       | 77        | 23.46                | 23.61   | 23.54   | 24.50   |
|                     |                         | 36      | 0         | 22.48                | 22.69   | 22.59   | 23.50   |
|                     |                         | 36      | 22        | 23.34                | 23.51   | 23.42   | 24.50   |
|                     |                         | 36      | 43        | 22.26                | 22.48   | 22.35   | 23.50   |
|                     |                         | 75      | 0         | 22.30                | 22.52   | 22.45   | 23.50   |
|                     | DFT-s-OFDM<br>16QAM     | 1       | 1         | 22.56                | 22.79   | 22.75   | 23.50   |
|                     | DFT-s-OFDM<br>64QAM     | 1       | 1         | 20.96                | 21.09   | 21.04   | 22.00   |
|                     | DFT-s-OFDM<br>256QAM    | 1       | 1         | 19.01                | 19.18   | 19.15   | 20.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 141300               | 141500  | 141700  |         |
| 15MHz               | CP-OFDM<br>QPSK         | 1       | 1         | 21.93                | 22.21   | 22.05   | 23.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 140800               | 141500  | 142200  |         |
| 10MHz               | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.95                | 23.18   | 23.09   | 24.50   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 140300               | 141500  | 142700  |         |
| 5MHz                | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.95                | 23.20   | 23.08   | 24.50   |

| N25 Ant0&Ant4 Full Power | Conducted Power(dBm) |
|--------------------------|----------------------|
|--------------------------|----------------------|

| SCS 15kHz |                         |         |           |         |         |         |         |
|-----------|-------------------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 372000  | 376500  | 381000  |         |
| 20MHz     | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 23.00   | 23.22   | 23.18   | 24.50   |
|           |                         | 1       | 53        | 23.03   | 23.18   | 23.06   | 24.50   |
|           |                         | 1       | 104       | 22.99   | 23.15   | 23.04   | 24.50   |
|           |                         | 50      | 0         | 22.61   | 22.81   | 22.75   | 24.00   |
|           |                         | 50      | 28        | 22.96   | 23.19   | 23.15   | 24.50   |
|           |                         | 50      | 56        | 22.52   | 22.72   | 22.69   | 24.00   |
|           |                         | 100     | 0         | 22.60   | 22.73   | 22.68   | 24.00   |
|           | DFT-s-OFDM<br>QPSK      | 1       | 1         | 23.05   | 23.29   | 23.24   | 24.50   |
|           |                         | 1       | 53        | 23.05   | 23.22   | 23.15   | 24.50   |
|           |                         | 1       | 104       | 23.00   | 23.16   | 23.02   | 24.50   |
|           |                         | 50      | 0         | 21.92   | 22.15   | 22.07   | 23.50   |
|           |                         | 50      | 28        | 22.97   | 23.21   | 23.16   | 24.50   |
|           |                         | 50      | 56        | 22.03   | 22.19   | 22.08   | 23.50   |
|           |                         | 100     | 0         | 22.07   | 22.21   | 22.14   | 23.50   |
|           | DFT-s-OFDM<br>16QAM     | 1       | 1         | 21.83   | 21.97   | 21.89   | 23.50   |
|           | DFT-s-OFDM<br>64QAM     | 1       | 1         | 20.46   | 20.64   | 20.57   | 22.00   |
|           | DFT-s-OFDM<br>256QAM    | 1       | 1         | 18.31   | 18.55   | 18.42   | 20.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 372000  | 376500  | 381000  |         |
| 20MHz     | CP-OFDM<br>QPSK         | 1       | 1         | 21.59   | 21.78   | 21.79   | 23.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 371500  | 376500  | 381500  |         |
| 15MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.59   | 22.78   | 22.73   | 24.50   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 371000  | 376500  | 382000  |         |
| 10MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.59   | 22.74   | 22.75   | 24.50   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 370500  | 376500  | 382500  |         |
| 5MHz      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.62   | 22.81   | 22.70   | 24.50   |

| N25 Ant0 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz            |                         |         |           |                      |         |         |         |
| Bandwidth            | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                         |         |           | 372000               | 376500  | 381000  |         |
| 20MHz                | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 16.30                | 16.60   | 16.52   | 18.00   |
|                      |                         | 1       | 53        | 16.47                | 16.58   | 16.50   | 18.00   |
|                      |                         | 1       | 104       | 16.37                | 16.62   | 16.45   | 18.00   |
|                      |                         | 50      | 0         | 16.54                | 16.78   | 16.56   | 18.00   |
|                      |                         | 50      | 28        | 16.45                | 16.60   | 16.64   | 18.00   |

|           |                      |         |           |         |         |         |         |
|-----------|----------------------|---------|-----------|---------|---------|---------|---------|
|           |                      | 50      | 56        | 16.44   | 16.68   | 16.66   | 18.00   |
|           |                      | 100     | 0         | 16.53   | 16.71   | 16.55   | 18.00   |
|           | DFT-s-OFDM<br>QPSK   | 1       | 1         | 16.42   | 16.67   | 16.59   | 18.00   |
|           |                      | 1       | 53        | 16.39   | 16.57   | 16.56   | 18.00   |
|           |                      | 1       | 104       | 16.27   | 16.30   | 16.24   | 18.00   |
|           |                      | 50      | 0         | 16.13   | 16.36   | 16.20   | 18.00   |
|           |                      | 50      | 28        | 16.36   | 16.55   | 16.49   | 18.00   |
|           |                      | 50      | 56        | 16.25   | 16.34   | 16.37   | 18.00   |
|           |                      | 100     | 0         | 16.23   | 16.41   | 16.32   | 18.00   |
|           | DFT-s-OFDM<br>16QAM  | 1       | 1         | 16.16   | 16.36   | 16.36   | 18.00   |
|           | DFT-s-OFDM<br>64QAM  | 1       | 1         | 16.33   | 16.53   | 16.44   | 18.00   |
|           | DFT-s-OFDM<br>256QAM | 1       | 1         | 16.24   | 16.36   | 16.35   | 18.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 372000  | 376500  | 381000  |         |
| 20MHz     | CP-OFDM<br>QPSK      | 1       | 1         | 14.98   | 15.14   | 15.15   | 16.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 371500  | 376500  | 381500  |         |
| 15MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 16.15   | 16.34   | 16.15   | 18.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 371000  | 376500  | 382000  |         |
| 10MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 16.13   | 16.28   | 16.17   | 18.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 370500  | 376500  | 382500  |         |
| 5MHz      | DFT-s-OFDM<br>QPSK   | 1       | 1         | 16.18   | 16.32   | 16.22   | 18.00   |

| N25 Ant0 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz            |                         |         |           |                      |         |         |         |
| Bandwidth            | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                         |         |           | 372000               | 376500  | 381000  |         |
| 20MHz                | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 18.90                | 19.19   | 19.17   | 20.50   |
|                      |                         | 1       | 53        | 18.88                | 19.13   | 18.92   | 20.50   |
|                      |                         | 1       | 104       | 18.90                | 19.13   | 18.96   | 20.50   |
|                      |                         | 50      | 0         | 19.02                | 19.23   | 19.11   | 20.50   |
|                      |                         | 50      | 28        | 18.87                | 19.10   | 19.05   | 20.50   |
|                      |                         | 50      | 56        | 18.82                | 19.06   | 19.16   | 20.50   |
|                      |                         | 100     | 0         | 18.99                | 19.21   | 19.14   | 20.50   |
|                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.87                | 19.29   | 19.24   | 20.50   |
|                      |                         | 1       | 53        | 18.84                | 19.08   | 18.92   | 20.50   |
|                      |                         | 1       | 104       | 18.93                | 19.15   | 18.85   | 20.50   |
|                      |                         | 50      | 0         | 18.70                | 19.07   | 18.82   | 20.50   |
|                      |                         | 50      | 28        | 18.81                | 19.12   | 18.97   | 20.50   |
|                      |                         | 50      | 56        | 18.78                | 18.95   | 18.90   | 20.50   |

|           |                   |         |           |         |         |         |         |
|-----------|-------------------|---------|-----------|---------|---------|---------|---------|
|           |                   | 100     | 0         | 19.03   | 19.09   | 19.06   | 20.50   |
|           | DFT-s-OFDM 16QAM  | 1       | 1         | 18.66   | 18.78   | 18.86   | 20.50   |
|           | DFT-s-OFDM 64QAM  | 1       | 1         | 18.94   | 18.96   | 18.95   | 20.50   |
|           | DFT-s-OFDM 256QAM | 1       | 1         | 18.30   | 18.46   | 18.42   | 20.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 372000  | 376500  | 381000  |         |
| 20MHz     | CP-OFDM QPSK      | 1       | 1         | 17.42   | 17.71   | 17.65   | 19.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 371500  | 376500  | 381500  |         |
| 15MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.74   | 19.12   | 19.08   | 20.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 371000  | 376500  | 382000  |         |
| 10MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.86   | 19.16   | 19.15   | 20.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 370500  | 376500  | 382500  |         |
| 5MHz      | DFT-s-OFDM QPSK   | 1       | 1         | 18.68   | 19.11   | 19.17   | 20.50   |

| N25 Ant0 Sensor on |                         |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz          |                         |         |           |                      |         |         |         |
| Bandwidth          | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                         |         |           | 372000               | 376500  | 381000  |         |
| 20MHz              | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 18.90                | 19.19   | 19.17   | 20.50   |
|                    |                         | 1       | 53        | 18.88                | 19.13   | 18.92   | 20.50   |
|                    |                         | 1       | 104       | 18.90                | 19.13   | 18.96   | 20.50   |
|                    |                         | 50      | 0         | 19.02                | 19.23   | 19.11   | 20.50   |
|                    |                         | 50      | 28        | 18.87                | 19.10   | 19.05   | 20.50   |
|                    |                         | 50      | 56        | 18.82                | 19.06   | 19.16   | 20.50   |
|                    |                         | 100     | 0         | 18.99                | 19.21   | 19.14   | 20.50   |
|                    | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.87                | 19.29   | 19.24   | 20.50   |
|                    |                         | 1       | 53        | 18.84                | 19.08   | 18.92   | 20.50   |
|                    |                         | 1       | 104       | 18.93                | 19.15   | 18.85   | 20.50   |
|                    |                         | 50      | 0         | 18.70                | 19.07   | 18.82   | 20.50   |
|                    |                         | 50      | 28        | 18.81                | 19.12   | 18.97   | 20.50   |
|                    |                         | 50      | 56        | 18.78                | 18.95   | 18.90   | 20.50   |
|                    |                         | 100     | 0         | 19.03                | 19.09   | 19.06   | 20.50   |
|                    | DFT-s-OFDM<br>16QAM     | 1       | 1         | 18.66                | 18.78   | 18.86   | 20.50   |
|                    | DFT-s-OFDM<br>64QAM     | 1       | 1         | 18.94                | 18.96   | 18.95   | 20.50   |
|                    | DFT-s-OFDM<br>256QAM    | 1       | 1         | 18.30                | 18.46   | 18.42   | 20.00   |
| Bandwidth          | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |



|              |                 |         |           |         |         |         |         |
|--------------|-----------------|---------|-----------|---------|---------|---------|---------|
|              |                 |         |           | 372000  | 376500  | 381000  |         |
| <b>20MHz</b> | CP-OFDM QPSK    | 1       | 1         | 17.42   | 17.71   | 17.65   | 19.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 371500  | 376500  | 381500  |         |
| <b>15MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.74   | 19.12   | 19.08   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 371000  | 376500  | 382000  |         |
| <b>10MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.86   | 19.16   | 19.15   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 370500  | 376500  | 382500  |         |
| <b>5MHz</b>  | DFT-s-OFDM QPSK | 1       | 1         | 18.68   | 19.11   | 19.17   | 20.50   |

| N38 Ant0 Full Power |                      |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|----------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz           |                      |         |           |                      |         |         |         |
| Bandwidth           | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                      |         |           | 518000               | 519000  | 520000  |         |
| <b>40MHz</b>        | DFT-s-OFDM PI/2 BPSK | 1       | 1         | 22.16                | 22.29   | 22.17   | 23.50   |
|                     |                      | 1       | 53        | 21.84                | 22.05   | 22.01   | 23.50   |
|                     |                      | 1       | 104       | 21.90                | 22.05   | 21.98   | 23.50   |
|                     |                      | 50      | 0         | 21.53                | 21.66   | 21.61   | 23.00   |
|                     |                      | 50      | 28        | 21.96                | 22.13   | 22.07   | 23.50   |
|                     |                      | 50      | 56        | 21.44                | 21.69   | 21.60   | 23.00   |
|                     |                      | 100     | 0         | 21.53                | 21.70   | 21.57   | 23.00   |
|                     | DFT-s-OFDM QPSK      | 1       | 1         | 22.19                | 22.33   | 22.28   | 23.50   |
|                     |                      | 1       | 53        | 22.02                | 22.14   | 22.07   | 23.50   |
|                     |                      | 1       | 104       | 22.04                | 22.16   | 22.07   | 23.50   |
|                     |                      | 50      | 0         | 21.12                | 21.33   | 21.31   | 22.50   |
|                     |                      | 50      | 28        | 22.01                | 22.19   | 22.14   | 23.50   |
|                     |                      | 50      | 56        | 21.08                | 21.28   | 21.13   | 22.50   |
|                     |                      | 100     | 0         | 21.17                | 21.35   | 21.23   | 22.50   |
|                     | DFT-s-OFDM 16QAM     | 1       | 1         | 21.02                | 21.25   | 21.22   | 22.50   |
|                     | DFT-s-OFDM 64QAM     | 1       | 1         | 19.57                | 19.73   | 19.67   | 21.00   |
|                     | DFT-s-OFDM 256QAM    | 1       | 1         | 17.54                | 17.68   | 17.66   | 19.00   |
| Bandwidth           | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                      |         |           | 518000               | 519000  | 520000  |         |
| <b>40MHz</b>        | CP-OFDM QPSK         | 1       | 1         | 20.64                | 20.84   | 20.85   | 22.00   |
| Bandwidth           | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                      |         |           | 517000               | 519000  | 521000  |         |
| <b>30MHz</b>        | DFT-s-OFDM QPSK      | 1       | 1         | 21.65                | 21.87   | 21.79   | 23.50   |
| Bandwidth           | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|       |                 |   |   | 516000 | 519000 | 522000 |       |
|-------|-----------------|---|---|--------|--------|--------|-------|
| 20MHz | DFT-s-OFDM QPSK | 1 | 1 | 21.77  | 21.84  | 21.84  | 23.50 |

| N38 Ant0 Receiver on |                      |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|----------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz            |                      |         |           |                      |         |         |         |
| Bandwidth            | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                      |         |           | 518000               | 519000  | 520000  |         |
| 40MHz                | DFT-s-OFDM PI/2 BPSK | 1       | 1         | 17.65                | 17.77   | 17.64   | 19.00   |
|                      |                      | 1       | 53        | 17.21                | 17.40   | 17.39   | 19.00   |
|                      |                      | 1       | 104       | 17.31                | 17.38   | 17.35   | 19.00   |
|                      |                      | 50      | 0         | 17.38                | 17.59   | 17.49   | 19.00   |
|                      |                      | 50      | 28        | 17.29                | 17.55   | 17.48   | 19.00   |
|                      |                      | 50      | 56        | 17.35                | 17.67   | 17.41   | 19.00   |
|                      |                      | 100     | 0         | 17.52                | 17.56   | 17.51   | 19.00   |
|                      | DFT-s-OFDM QPSK      | 1       | 1         | 17.64                | 17.75   | 17.73   | 19.00   |
|                      |                      | 1       | 53        | 17.37                | 17.56   | 17.47   | 19.00   |
|                      |                      | 1       | 104       | 17.35                | 17.66   | 17.38   | 19.00   |
|                      |                      | 50      | 0         | 17.32                | 17.63   | 17.54   | 19.00   |
|                      |                      | 50      | 28        | 17.37                | 17.67   | 17.62   | 19.00   |
|                      |                      | 50      | 56        | 17.34                | 17.41   | 17.35   | 19.00   |
|                      |                      | 100     | 0         | 17.49                | 17.70   | 17.53   | 19.00   |
|                      | DFT-s-OFDM 16QAM     | 1       | 1         | 17.45                | 17.55   | 17.54   | 19.00   |
|                      | DFT-s-OFDM 64QAM     | 1       | 1         | 17.38                | 17.55   | 17.46   | 19.00   |
|                      | DFT-s-OFDM 256QAM    | 1       | 1         | 17.23                | 17.45   | 17.48   | 19.00   |
| Bandwidth            | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                      |         |           | 518000               | 519000  | 520000  |         |
| 40MHz                | CP-OFDM QPSK         | 1       | 1         | 15.94                | 16.15   | 16.20   | 17.50   |
| Bandwidth            | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                      |         |           | 517000               | 519000  | 521000  |         |
| 30MHz                | DFT-s-OFDM QPSK      | 1       | 1         | 17.43                | 17.41   | 17.46   | 19.00   |
| Bandwidth            | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                      |         |           | 516000               | 519000  | 522000  |         |
| 20MHz                | DFT-s-OFDM QPSK      | 1       | 1         | 17.34                | 17.43   | 17.49   | 19.00   |

| N38 Ant0 Hotspot on&Sensor on |                      |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------|----------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz                     |                      |         |           |                      |         |         |         |
| Bandwidth                     | Modulation           | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |                      |         |           | 518000               | 519000  | 520000  |         |
| 40MHz                         | DFT-s-OFDM PI/2 BPSK | 1       | 1         | 19.06                | 19.12   | 18.97   | 20.50   |
|                               |                      | 1       | 53        | 18.65                | 19.04   | 18.92   | 20.50   |
|                               |                      | 1       | 104       | 18.74                | 18.99   | 18.91   | 20.50   |

|           |                      |         |           |                   |                   |                   |         |
|-----------|----------------------|---------|-----------|-------------------|-------------------|-------------------|---------|
|           |                      | 50      | 0         | 18.89             | 18.99             | 19.02             | 20.50   |
|           |                      | 50      | 28        | 18.88             | 19.00             | 18.93             | 20.50   |
|           |                      | 50      | 56        | 18.86             | 19.02             | 19.10             | 20.50   |
|           |                      | 100     | 0         | 19.02             | 19.12             | 18.98             | 20.50   |
|           | DFT-s-OFDM<br>QPSK   | 1       | 1         | 19.04             | 19.28             | 19.23             | 20.50   |
|           |                      | 1       | 53        | 18.98             | 19.04             | 18.95             | 20.50   |
|           |                      | 1       | 104       | 18.93             | 18.98             | 19.05             | 20.50   |
|           |                      | 50      | 0         | 18.73             | 18.96             | 18.88             | 20.50   |
|           |                      | 50      | 28        | 18.82             | 19.21             | 18.96             | 20.50   |
|           |                      | 50      | 56        | 18.79             | 19.12             | 18.92             | 20.50   |
|           |                      | 100     | 0         | 18.78             | 18.96             | 18.85             | 20.50   |
|           | DFT-s-OFDM<br>16QAM  | 1       | 1         | 19.00             | 19.17             | 19.20             | 20.50   |
|           | DFT-s-OFDM<br>64QAM  | 1       | 1         | 19.04             | 19.18             | 19.14             | 20.50   |
|           | DFT-s-OFDM<br>256QAM | 1       | 1         | 17.51             | 17.55             | 17.61             | 19.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel<br>518000 | Channel<br>519000 | Channel<br>520000 | Tune up |
| 40MHz     | CP-OFDM<br>QPSK      | 1       | 1         | 17.51             | 17.70             | 17.66             | 19.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel<br>517000 | Channel<br>519000 | Channel<br>521000 | Tune up |
| 30MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 18.94             | 19.20             | 19.17             | 20.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel<br>516000 | Channel<br>519000 | Channel<br>522000 | Tune up |
| 20MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 18.90             | 19.13             | 19.19             | 20.50   |

| N41 Ant0&4 Full Power |                         |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz             |                         |         |           |                      |         |         |         |
| Bandwidth             | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |                         |         |           | 509202               | 518598  | 528000  |         |
| 100MHz                | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 22.23                | 22.41   | 22.39   | 23.50   |
|                       |                         | 1       | 137       | 22.02                | 22.16   | 22.11   | 23.50   |
|                       |                         | 1       | 271       | 22.09                | 22.23   | 22.18   | 23.50   |
|                       |                         | 135     | 0         | 21.58                | 21.82   | 21.71   | 23.00   |
|                       |                         | 135     | 69        | 22.04                | 22.19   | 22.13   | 23.50   |
|                       |                         | 135     | 138       | 21.64                | 21.77   | 21.73   | 23.00   |
|                       |                         | 270     | 0         | 21.65                | 21.84   | 21.80   | 23.00   |
|                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.33                | 22.49   | 22.44   | 23.50   |
|                       |                         | 1       | 137       | 22.11                | 22.31   | 22.19   | 23.50   |
|                       |                         | 1       | 271       | 22.12                | 22.26   | 22.11   | 23.50   |
|                       |                         | 135     | 0         | 21.24                | 21.48   | 21.40   | 22.50   |
|                       |                         | 135     | 69        | 22.14                | 22.32   | 22.24   | 23.50   |

|           |                      |         |           |         |         |         |         |
|-----------|----------------------|---------|-----------|---------|---------|---------|---------|
|           |                      | 135     | 138       | 21.32   | 21.46   | 21.36   | 22.50   |
|           |                      | 270     | 0         | 21.28   | 21.52   | 21.44   | 22.50   |
|           | DFT-s-OFDM<br>16QAM  | 1       | 1         | 21.42   | 21.63   | 21.55   | 22.50   |
|           | DFT-s-OFDM<br>64QAM  | 1       | 1         | 19.64   | 19.85   | 19.73   | 21.00   |
|           | DFT-s-OFDM<br>256QAM | 1       | 1         | 17.76   | 17.90   | 17.76   | 19.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 509202  | 518598  | 528000  |         |
| 100MHz    | CP-OFDM<br>QPSK      | 1       | 1         | 20.91   | 21.05   | 20.97   | 22.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 508200  | 518598  | 528996  |         |
| 90MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.78   | 22.06   | 21.99   | 23.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 507204  | 518598  | 529998  |         |
| 80MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.81   | 22.06   | 21.95   | 23.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 505200  | 518598  | 531996  |         |
| 60MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.83   | 21.98   | 21.92   | 23.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 504204  | 518598  | 532998  |         |
| 50MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.79   | 21.95   | 21.94   | 23.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 503202  | 518598  | 534000  |         |
| 40MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.85   | 22.06   | 21.97   | 23.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 502200  | 518598  | 534996  |         |
| 30MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.90   | 21.95   | 21.96   | 23.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 501204  | 518598  | 535998  |         |
| 20MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.84   | 21.96   | 22.00   | 23.50   |

| N41 Ant0 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz            |            |         |           |                      |         |         |         |
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 509202               | 518598  | 528000  |         |

|           |                         |         |           |         |         |         |         |
|-----------|-------------------------|---------|-----------|---------|---------|---------|---------|
| 100MHz    | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 17.73   | 17.79   | 17.82   | 19.00   |
|           |                         | 1       | 137       | 17.38   | 17.66   | 17.45   | 19.00   |
|           |                         | 1       | 271       | 17.48   | 17.70   | 17.60   | 19.00   |
|           |                         | 135     | 0         | 17.56   | 17.74   | 17.61   | 19.00   |
|           |                         | 135     | 69        | 17.51   | 17.57   | 17.63   | 19.00   |
|           |                         | 135     | 138       | 17.60   | 17.61   | 17.73   | 19.00   |
|           |                         | 270     | 0         | 17.63   | 17.73   | 17.68   | 19.00   |
|           | DFT-s-OFDM<br>QPSK      | 1       | 1         | 17.66   | 17.99   | 17.93   | 19.00   |
|           |                         | 1       | 137       | 17.57   | 17.75   | 17.61   | 19.00   |
|           |                         | 1       | 271       | 17.47   | 17.74   | 17.61   | 19.00   |
|           |                         | 135     | 0         | 17.47   | 17.59   | 17.51   | 19.00   |
|           |                         | 135     | 69        | 17.52   | 17.62   | 17.53   | 19.00   |
|           |                         | 135     | 138       | 17.42   | 17.58   | 17.50   | 19.00   |
|           |                         | 270     | 0         | 17.54   | 17.84   | 17.76   | 19.00   |
|           | DFT-s-OFDM<br>16QAM     | 1       | 1         | 17.83   | 17.71   | 17.83   | 19.00   |
|           | DFT-s-OFDM<br>64QAM     | 1       | 1         | 17.52   | 17.84   | 17.39   | 19.00   |
|           | DFT-s-OFDM<br>256QAM    | 1       | 1         | 17.55   | 17.75   | 17.60   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 509202  | 518598  | 528000  |         |
| 100MHz    | CP-OFDM<br>QPSK         | 1       | 1         | 16.23   | 16.44   | 16.29   | 17.50   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 508200  | 518598  | 528996  |         |
| 90MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 17.23   | 17.44   | 17.29   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 507204  | 518598  | 529998  |         |
| 80MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 17.30   | 17.41   | 17.28   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 505200  | 518598  | 531996  |         |
| 60MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 17.32   | 17.38   | 17.26   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 504204  | 518598  | 532998  |         |
| 50MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 17.21   | 17.40   | 17.27   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 503202  | 518598  | 534000  |         |
| 40MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 17.20   | 17.51   | 17.41   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 502200  | 518598  | 534996  |         |
| 30MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 17.22   | 17.44   | 17.43   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 501204  | 518598  | 535998  |         |

|       |                 |   |   |       |       |       |       |
|-------|-----------------|---|---|-------|-------|-------|-------|
| 20MHz | DFT-s-OFDM QPSK | 1 | 1 | 17.22 | 17.44 | 17.38 | 19.00 |
|-------|-----------------|---|---|-------|-------|-------|-------|

| N41 Ant0 Hotspot on & Sensor on |                         |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz                       |                         |         |           |                      |         |         |         |
| Bandwidth                       | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                         |         |           | 509202               | 518598  | 528000  |         |
| 100MHz                          | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 19.17                | 19.25   | 19.31   | 20.50   |
|                                 |                         | 1       | 137       | 18.90                | 18.96   | 19.06   | 20.50   |
|                                 |                         | 1       | 271       | 18.98                | 19.15   | 19.15   | 20.50   |
|                                 |                         | 135     | 0         | 18.98                | 19.24   | 19.13   | 20.50   |
|                                 |                         | 135     | 69        | 18.96                | 19.04   | 19.08   | 20.50   |
|                                 |                         | 135     | 138       | 19.05                | 19.10   | 19.08   | 20.50   |
|                                 |                         | 270     | 0         | 19.14                | 19.22   | 19.16   | 20.50   |
|                                 | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.24                | 19.42   | 19.30   | 20.50   |
|                                 |                         | 1       | 137       | 19.07                | 19.23   | 19.17   | 20.50   |
|                                 |                         | 1       | 271       | 18.94                | 19.18   | 19.09   | 20.50   |
|                                 |                         | 135     | 0         | 19.06                | 19.21   | 19.18   | 20.50   |
|                                 |                         | 135     | 69        | 19.18                | 19.35   | 19.31   | 20.50   |
|                                 |                         | 135     | 138       | 19.13                | 19.31   | 19.16   | 20.50   |
|                                 |                         | 270     | 0         | 19.03                | 19.38   | 19.26   | 20.50   |
|                                 | DFT-s-OFDM<br>16QAM     | 1       | 1         | 18.89                | 19.34   | 19.10   | 20.50   |
|                                 | DFT-s-OFDM<br>64QAM     | 1       | 1         | 18.96                | 19.33   | 19.22   | 20.50   |
|                                 | DFT-s-OFDM<br>256QAM    | 1       | 1         | 17.68                | 17.72   | 17.70   | 19.00   |
| Bandwidth                       | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                         |         |           | 509202               | 518598  | 528000  |         |
| 100MHz                          | CP-OFDM<br>QPSK         | 1       | 1         | 17.84                | 18.04   | 17.77   | 19.00   |
| Bandwidth                       | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                         |         |           | 508200               | 518598  | 528996  |         |
| 90MHz                           | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.08                | 19.30   | 19.25   | 20.50   |
| Bandwidth                       | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                         |         |           | 507204               | 518598  | 529998  |         |
| 80MHz                           | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.22                | 19.37   | 19.24   | 20.50   |
| Bandwidth                       | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                         |         |           | 505200               | 518598  | 531996  |         |
| 60MHz                           | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.13                | 19.33   | 19.14   | 20.50   |
| Bandwidth                       | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                         |         |           | 504204               | 518598  | 532998  |         |
| 50MHz                           | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.18                | 19.34   | 19.30   | 20.50   |
| Bandwidth                       | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                         |         |           | 503202               | 518598  | 534000  |         |

|              |                 |         |           |         |         |         |         |
|--------------|-----------------|---------|-----------|---------|---------|---------|---------|
| <b>40MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 19.10   | 19.23   | 19.19   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 502200  | 518598  | 534996  |         |
| <b>30MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 19.06   | 19.37   | 19.16   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 501204  | 518598  | 535998  |         |
| <b>20MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 19.06   | 19.39   | 19.11   | 20.50   |

| N48 Ant2 Full Power |                         |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz           |                         |         |           |                      |         |         |         |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 638000               | 641666  | 645332  |         |
| 40MHz               | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 22.02                | 22.19   | 22.04   | 23.50   |
|                     |                         | 1       | 53        | 21.81                | 21.96   | 21.87   | 23.50   |
|                     |                         | 1       | 104       | 21.73                | 21.94   | 21.80   | 23.50   |
|                     |                         | 50      | 0         | 21.41                | 21.56   | 21.48   | 23.00   |
|                     |                         | 50      | 28        | 21.82                | 21.97   | 21.88   | 23.50   |
|                     |                         | 50      | 56        | 21.42                | 21.54   | 21.46   | 23.00   |
|                     |                         | 100     | 0         | 21.36                | 21.60   | 21.55   | 23.00   |
|                     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.16                | 22.32   | 22.23   | 23.50   |
|                     |                         | 1       | 53        | 21.94                | 22.16   | 22.13   | 23.50   |
|                     |                         | 1       | 104       | 21.95                | 22.13   | 22.09   | 23.50   |
|                     |                         | 50      | 0         | 21.18                | 21.30   | 21.16   | 22.50   |
|                     |                         | 50      | 28        | 22.03                | 22.19   | 22.13   | 23.50   |
|                     |                         | 50      | 56        | 21.09                | 21.28   | 21.18   | 22.50   |
|                     |                         | 100     | 0         | 21.08                | 21.32   | 21.27   | 22.50   |
|                     | DFT-s-OFDM<br>16QAM     | 1       | 1         | 21.01                | 21.18   | 21.15   | 22.50   |
|                     | DFT-s-OFDM<br>64QAM     | 1       | 1         | 19.30                | 19.48   | 19.37   | 21.00   |
|                     | DFT-s-OFDM<br>256QAM    | 1       | 1         | 17.34                | 17.57   | 17.46   | 19.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 638000               | 641666  | 645332  |         |
| 40MHz               | CP-OFDM<br>QPSK         | 1       | 1         | 20.73                | 20.87   | 20.79   | 22.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 637334               | 641666  | 646000  |         |
| 20MHz               | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.64                | 21.89   | 21.71   | 23.50   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 637000               | 641666  | 646332  |         |



|       |                 |   |   |       |       |       |       |
|-------|-----------------|---|---|-------|-------|-------|-------|
| 10MHz | DFT-s-OFDM QPSK | 1 | 1 | 21.72 | 21.81 | 21.75 | 23.50 |
|-------|-----------------|---|---|-------|-------|-------|-------|

| N48 Ant2 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz            |                         |         |           |                      |         |         |         |
| Bandwidth            | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                         |         |           | 638000               | 641666  | 645332  |         |
| 40MHz                | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 21.18                | 21.31   | 21.17   | 22.50   |
|                      |                         | 1       | 53        | 20.97                | 20.97   | 21.02   | 22.50   |
|                      |                         | 1       | 104       | 20.73                | 21.02   | 20.98   | 22.50   |
|                      |                         | 50      | 0         | 21.04                | 21.12   | 20.99   | 22.50   |
|                      |                         | 50      | 28        | 20.94                | 21.16   | 21.03   | 22.50   |
|                      |                         | 50      | 56        | 21.01                | 21.18   | 21.06   | 22.50   |
|                      |                         | 100     | 0         | 20.95                | 21.20   | 21.13   | 22.50   |
|                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.21                | 21.47   | 21.30   | 22.50   |
|                      |                         | 1       | 53        | 21.10                | 21.26   | 21.22   | 22.50   |
|                      |                         | 1       | 104       | 20.97                | 21.28   | 21.27   | 22.50   |
|                      |                         | 50      | 0         | 21.04                | 21.05   | 20.96   | 22.50   |
|                      |                         | 50      | 28        | 21.09                | 21.24   | 21.14   | 22.50   |
|                      |                         | 50      | 56        | 20.96                | 21.17   | 21.23   | 22.50   |
|                      |                         | 100     | 0         | 21.05                | 21.30   | 21.29   | 22.50   |
|                      | DFT-s-OFDM<br>16QAM     | 1       | 1         | 21.03                | 21.08   | 21.25   | 22.50   |
|                      | DFT-s-OFDM<br>64QAM     | 1       | 1         | 19.24                | 19.40   | 19.29   | 21.00   |
|                      | DFT-s-OFDM<br>256QAM    | 1       | 1         | 17.26                | 17.54   | 17.49   | 19.00   |
| Bandwidth            | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                         |         |           | 638000               | 641666  | 645332  |         |
| 40MHz                | CP-OFDM<br>QPSK         | 1       | 1         | 19.92                | 19.97   | 19.99   | 21.00   |
| Bandwidth            | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                         |         |           | 637334               | 641666  | 646000  |         |
| 20MHz                | DFT-s-OFDM<br>QPSK      | 1       | 1         | 20.71                | 20.96   | 20.74   | 22.50   |
| Bandwidth            | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                         |         |           | 637000               | 641666  | 646332  |         |
| 10MHz                | DFT-s-OFDM<br>QPSK      | 1       | 1         | 20.81                | 20.83   | 20.86   | 22.50   |

| N48 Ant2 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz           |            |         |           |                      |         |         |         |
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |            |         |           | 638000               | 641666  | 645332  |         |



|           |                         |         |           |         |         |         |         |
|-----------|-------------------------|---------|-----------|---------|---------|---------|---------|
| 40MHz     | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 18.87   | 19.16   | 18.90   | 20.50   |
|           |                         | 1       | 53        | 18.71   | 18.94   | 18.77   | 20.50   |
|           |                         | 1       | 104       | 18.71   | 18.82   | 18.69   | 20.50   |
|           |                         | 50      | 0         | 18.90   | 19.02   | 18.85   | 20.50   |
|           |                         | 50      | 28        | 18.81   | 18.82   | 18.81   | 20.50   |
|           |                         | 50      | 56        | 18.74   | 18.95   | 18.90   | 20.50   |
|           |                         | 100     | 0         | 18.84   | 18.94   | 18.98   | 20.50   |
|           | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.08   | 19.25   | 19.05   | 20.50   |
|           |                         | 1       | 53        | 18.88   | 19.06   | 18.92   | 20.50   |
|           |                         | 1       | 104       | 18.94   | 19.10   | 18.91   | 20.50   |
|           |                         | 50      | 0         | 18.88   | 19.00   | 18.88   | 20.50   |
|           |                         | 50      | 28        | 18.98   | 19.15   | 19.03   | 20.50   |
|           |                         | 50      | 56        | 18.96   | 19.05   | 19.01   | 20.50   |
|           |                         | 100     | 0         | 19.06   | 19.14   | 18.97   | 20.50   |
|           | DFT-s-OFDM<br>16QAM     | 1       | 1         | 18.90   | 19.07   | 19.14   | 20.50   |
|           | DFT-s-OFDM<br>64QAM     | 1       | 1         | 18.75   | 18.84   | 18.70   | 20.50   |
|           | DFT-s-OFDM<br>256QAM    | 1       | 1         | 17.29   | 17.44   | 17.43   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 638000  | 641666  | 645332  |         |
| 40MHz     | CP-OFDM<br>QPSK         | 1       | 1         | 17.71   | 17.70   | 17.67   | 19.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 637334  | 641666  | 646000  |         |
| 20MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.00   | 19.18   | 18.99   | 20.50   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 637000  | 641666  | 646332  |         |
| 10MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.00   | 19.05   | 18.86   | 20.50   |

| N66 Ant0&Ant4 Full Power |                         |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz                |                         |         |           |                      |         |         |         |
| Bandwidth                | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                          |                         |         |           | 346000               | 349000  | 352000  |         |
| 20MHz                    | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 22.89                | 23.09   | 23.01   | 24.00   |
|                          |                         | 1       | 53        | 22.66                | 22.87   | 22.72   | 24.00   |
|                          |                         | 1       | 104       | 22.72                | 22.93   | 22.78   | 24.00   |
|                          |                         | 50      | 0         | 22.23                | 22.46   | 22.31   | 23.50   |
|                          |                         | 50      | 28        | 22.62                | 22.87   | 22.78   | 24.00   |
|                          |                         | 50      | 56        | 22.33                | 22.47   | 22.44   | 23.50   |
|                          |                         | 100     | 0         | 22.36                | 22.49   | 22.44   | 23.50   |
|                          | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.99                | 23.16   | 23.08   | 24.00   |
|                          |                         | 1       | 53        | 22.69                | 22.93   | 22.88   | 24.00   |
|                          |                         | 1       | 104       | 22.78                | 22.99   | 22.85   | 24.00   |
|                          |                         | 50      | 0         | 21.94                | 22.14   | 22.09   | 23.00   |
|                          |                         | 50      | 28        | 22.88                | 23.01   | 22.90   | 24.00   |

|           |                   |         |           |                |                |                |         |
|-----------|-------------------|---------|-----------|----------------|----------------|----------------|---------|
|           |                   | 50      | 56        | 21.90          | 22.13          | 22.00          | 23.00   |
|           |                   | 100     | 0         | 22.00          | 22.15          | 22.06          | 23.00   |
|           | DFT-s-OFDM 16QAM  | 1       | 1         | 22.06          | 22.20          | 22.08          | 23.00   |
|           | DFT-s-OFDM 64QAM  | 1       | 1         | 20.26          | 20.45          | 20.37          | 21.50   |
|           | DFT-s-OFDM 256QAM | 1       | 1         | 18.29          | 18.51          | 18.49          | 19.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel 344000 | Channel 349000 | Channel 354000 | Tune up |
| 20MHz     | CP-OFDM QPSK      | 1       | 1         | 21.46          | 21.66          | 21.59          | 22.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel 343500 | Channel 349000 | Channel 354500 | Tune up |
| 15MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 22.46          | 22.66          | 22.66          | 24.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel 343000 | Channel 349000 | Channel 355000 | Tune up |
| 10MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 22.50          | 22.62          | 22.60          | 24.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel 342500 | Channel 349000 | Channel 355500 | Tune up |
| 5MHz      | DFT-s-OFDM QPSK   | 1       | 1         | 22.56          | 22.70          | 22.58          | 24.00   |

| N66 Ant0 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz            |                         |         |           |                      |         |         |         |
| Bandwidth            | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                         |         |           | 346000               | 349000  | 352000  |         |
| 20MHz                | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 15.20                | 15.58   | 15.32   | 16.50   |
|                      |                         | 1       | 53        | 15.05                | 15.26   | 15.11   | 16.50   |
|                      |                         | 1       | 104       | 15.09                | 15.41   | 15.25   | 16.50   |
|                      |                         | 50      | 0         | 15.13                | 15.27   | 15.14   | 16.50   |
|                      |                         | 50      | 28        | 15.00                | 15.33   | 15.18   | 16.50   |
|                      |                         | 50      | 56        | 15.19                | 15.29   | 15.35   | 16.50   |
|                      |                         | 100     | 0         | 15.26                | 15.35   | 15.30   | 16.50   |
|                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.48                | 15.59   | 15.58   | 16.50   |
|                      |                         | 1       | 53        | 15.04                | 15.43   | 15.33   | 16.50   |
|                      |                         | 1       | 104       | 15.17                | 15.49   | 15.19   | 16.50   |
|                      |                         | 50      | 0         | 15.18                | 15.22   | 15.15   | 16.50   |
|                      |                         | 50      | 28        | 15.24                | 15.43   | 15.31   | 16.50   |
|                      |                         | 50      | 56        | 15.23                | 15.32   | 15.23   | 16.50   |
|                      |                         | 100     | 0         | 15.45                | 15.47   | 15.43   | 16.50   |
|                      | DFT-s-OFDM<br>16QAM     | 1       | 1         | 15.34                | 15.38   | 15.46   | 16.50   |
|                      | DFT-s-OFDM<br>64QAM     | 1       | 1         | 15.11                | 15.40   | 15.15   | 16.50   |
|                      | DFT-s-OFDM<br>256QAM    | 1       | 1         | 15.19                | 15.36   | 15.42   | 16.50   |

| Bandwidth    | Modulation         | RB size | RB offset | Channel<br>344000 | Channel<br>349000 | Channel<br>354000 | Tune up |
|--------------|--------------------|---------|-----------|-------------------|-------------------|-------------------|---------|
| <b>20MHz</b> | CP-OFDM<br>QPSK    | 1       | 1         | 13.96             | 14.06             | 14.08             | 15.00   |
| Bandwidth    | Modulation         | RB size | RB offset | Channel<br>343500 | Channel<br>349000 | Channel<br>354500 | Tune up |
| <b>15MHz</b> | DFT-s-OFDM<br>QPSK | 1       | 1         | 14.91             | 15.00             | 15.05             | 16.50   |
| Bandwidth    | Modulation         | RB size | RB offset | Channel<br>343000 | Channel<br>349000 | Channel<br>355000 | Tune up |
| <b>10MHz</b> | DFT-s-OFDM<br>QPSK | 1       | 1         | 14.98             | 15.04             | 15.03             | 16.50   |
| Bandwidth    | Modulation         | RB size | RB offset | Channel<br>342500 | Channel<br>349000 | Channel<br>355500 | Tune up |
| <b>5MHz</b>  | DFT-s-OFDM<br>QPSK | 1       | 1         | 14.94             | 15.09             | 14.98             | 16.50   |

| N66 Ant0 Hotspot on |                         |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz           |                         |         |           |                      |         |         |         |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 346000               | 349000  | 352000  |         |
| 20MHz               | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 18.71                | 19.05   | 18.96   | 20.00   |
|                     |                         | 1       | 53        | 18.63                | 18.84   | 18.62   | 20.00   |
|                     |                         | 1       | 104       | 18.55                | 18.75   | 18.75   | 20.00   |
|                     |                         | 50      | 0         | 18.60                | 18.92   | 18.70   | 20.00   |
|                     |                         | 50      | 28        | 18.57                | 18.76   | 18.64   | 20.00   |
|                     |                         | 50      | 56        | 18.82                | 18.86   | 18.93   | 20.00   |
|                     |                         | 100     | 0         | 18.79                | 18.95   | 18.78   | 20.00   |
|                     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.97                | 18.99   | 18.94   | 20.00   |
|                     |                         | 1       | 53        | 18.51                | 18.84   | 18.75   | 20.00   |
|                     |                         | 1       | 104       | 18.69                | 18.85   | 18.78   | 20.00   |
|                     |                         | 50      | 0         | 18.63                | 18.80   | 18.49   | 20.00   |
|                     |                         | 50      | 28        | 18.71                | 18.94   | 18.80   | 20.00   |
|                     |                         | 50      | 56        | 18.70                | 18.85   | 18.53   | 20.00   |
|                     |                         | 100     | 0         | 18.62                | 18.87   | 18.49   | 20.00   |
|                     | DFT-s-OFDM<br>16QAM     | 1       | 1         | 18.94                | 19.14   | 19.00   | 20.00   |
|                     | DFT-s-OFDM<br>64QAM     | 1       | 1         | 18.58                | 18.93   | 18.82   | 20.00   |
|                     | DFT-s-OFDM<br>256QAM    | 1       | 1         | 18.14                | 18.49   | 18.34   | 19.50   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 344000               | 349000  | 354000  |         |
| 20MHz               | CP-OFDM<br>QPSK         | 1       | 1         | 17.45                | 17.59   | 17.58   | 18.50   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 343500               | 349000  | 354500  |         |
| 15MHz               | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.86                | 18.97   | 18.93   | 20.00   |

| Bandwidth | Modulation         | RB size | RB offset | Channel<br>343000 | Channel<br>349000 | Channel<br>355000 | Tune up |
|-----------|--------------------|---------|-----------|-------------------|-------------------|-------------------|---------|
| 10MHz     | DFT-s-OFDM<br>QPSK | 1       | 1         | 18.88             | 18.85             | 18.78             | 20.00   |
| Bandwidth | Modulation         | RB size | RB offset | Channel<br>342500 | Channel<br>349000 | Channel<br>355500 | Tune up |
| 5MHz      | DFT-s-OFDM<br>QPSK | 1       | 1         | 18.87             | 18.98             | 18.81             | 20.00   |

| N66 Ant0&Ant4 Sensor on |                         |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz               |                         |         |           |                      |         |         |         |
| Bandwidth               | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |         |           | 346000               | 349000  | 352000  |         |
| 20MHz                   | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 21.75                | 21.94   | 21.90   | 23.00   |
|                         |                         | 1       | 53        | 21.59                | 21.82   | 21.60   | 23.00   |
|                         |                         | 1       | 104       | 21.53                | 21.81   | 21.67   | 23.00   |
|                         |                         | 50      | 0         | 21.60                | 21.84   | 21.76   | 23.00   |
|                         |                         | 50      | 28        | 21.54                | 21.68   | 21.67   | 23.00   |
|                         |                         | 50      | 56        | 21.63                | 21.96   | 21.75   | 23.00   |
|                         |                         | 100     | 0         | 21.84                | 21.87   | 21.74   | 23.00   |
|                         | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.81                | 22.01   | 21.89   | 23.00   |
|                         |                         | 1       | 53        | 21.66                | 21.76   | 21.86   | 23.00   |
|                         |                         | 1       | 104       | 21.63                | 21.83   | 21.65   | 23.00   |
|                         |                         | 50      | 0         | 21.64                | 21.86   | 21.79   | 23.00   |
|                         |                         | 50      | 28        | 21.78                | 21.96   | 21.85   | 23.00   |
|                         |                         | 50      | 56        | 21.63                | 21.94   | 21.81   | 23.00   |
|                         |                         | 100     | 0         | 21.67                | 21.99   | 21.68   | 23.00   |
|                         | DFT-s-OFDM<br>16QAM     | 1       | 1         | 21.90                | 22.07   | 21.91   | 23.00   |
|                         | DFT-s-OFDM<br>64QAM     | 1       | 1         | 20.24                | 20.41   | 20.21   | 21.50   |
|                         | DFT-s-OFDM<br>256QAM    | 1       | 1         | 18.17                | 18.31   | 18.40   | 19.50   |
| Bandwidth               | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |         |           | 344000               | 349000  | 354000  |         |
| 20MHz                   | CP-OFDM<br>QPSK         | 1       | 1         | 21.33                | 21.54   | 21.53   | 21.50   |
| Bandwidth               | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |         |           | 343500               | 349000  | 354500  |         |
| 15MHz                   | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.27                | 21.52   | 21.53   | 23.00   |
| Bandwidth               | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |         |           | 343000               | 349000  | 355000  |         |
| 10MHz                   | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.43                | 21.43   | 21.42   | 23.00   |
| Bandwidth               | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                         |                         |         |           | 342500               | 349000  | 355500  |         |
| 5MHz                    | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.46                | 21.59   | 21.39   | 23.00   |

| N71 Ant0 Full Power |                         |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 15kHz           |                         |         |           |                      |         |         |         |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 134600               | 136100  | 137600  |         |
| 20MHz               | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 23.28                | 23.48   | 23.43   | 24.50   |
|                     |                         | 1       | 53        | 23.08                | 23.27   | 23.15   | 24.50   |
|                     |                         | 1       | 104       | 23.13                | 23.32   | 23.20   | 24.50   |
|                     |                         | 50      | 0         | 22.62                | 22.85   | 22.76   | 24.00   |
|                     |                         | 50      | 28        | 23.16                | 23.29   | 23.24   | 24.50   |
|                     |                         | 50      | 56        | 22.63                | 22.88   | 22.85   | 24.00   |
|                     |                         | 100     | 0         | 22.73                | 22.91   | 22.80   | 24.00   |
|                     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 23.34                | 23.51   | 23.37   | 24.50   |
|                     |                         | 1       | 53        | 23.09                | 23.33   | 23.19   | 24.50   |
|                     |                         | 1       | 104       | 23.06                | 23.30   | 23.27   | 24.50   |
|                     |                         | 50      | 0         | 22.34                | 22.52   | 22.42   | 23.50   |
|                     |                         | 50      | 28        | 23.14                | 23.39   | 23.26   | 24.50   |
|                     |                         | 50      | 56        | 22.31                | 22.50   | 22.47   | 23.50   |
|                     |                         | 100     | 0         | 22.40                | 22.55   | 22.53   | 23.50   |
|                     | DFT-s-OFDM<br>16QAM     | 1       | 1         | 22.46                | 22.64   | 22.57   | 23.50   |
|                     | DFT-s-OFDM<br>64QAM     | 1       | 1         | 20.54                | 20.78   | 20.72   | 22.00   |
|                     | DFT-s-OFDM<br>256QAM    | 1       | 1         | 18.63                | 18.78   | 18.71   | 20.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 134600               | 136100  | 137600  |         |
| 20MHz               | CP-OFDM<br>QPSK         | 1       | 1         | 21.82                | 22.03   | 21.85   | 23.00   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 134100               | 136100  | 138100  |         |
| 15MHz               | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.84                | 23.05   | 22.90   | 24.50   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 133600               | 136100  | 138600  |         |
| 10MHz               | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.89                | 23.09   | 22.82   | 24.50   |
| Bandwidth           | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                         |         |           | 133100               | 136100  | 139100  |         |
| 5MHz                | DFT-s-OFDM<br>QPSK      | 1       | 1         | 22.87                | 23.08   | 22.88   | 24.50   |

| N77 Part Q Ant2 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3450~3550)       |            |         |           |                      |         |         |         |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | /                    | 633334  | /       |         |
| 100MHz                     | DFT-s-OFDM | 1       | 1         | /                    | 21.91   | /       | 23.00   |

|           |                   |         |           |         |         |         |         |
|-----------|-------------------|---------|-----------|---------|---------|---------|---------|
|           | PI/2 BPSK         | 1       | 137       | /       | 21.69   | /       | 23.00   |
|           |                   | 1       | 271       | /       | 21.81   | /       | 23.00   |
|           |                   | 135     | 0         | /       | 21.33   | /       | 22.50   |
|           |                   | 135     | 69        | /       | 21.59   | /       | 23.00   |
|           |                   | 135     | 138       | /       | 20.88   | /       | 22.50   |
|           |                   | 270     | 0         | /       | 20.91   | /       | 22.50   |
|           | DFT-s-OFDM QPSK   | 1       | 1         | /       | 21.99   | /       | 23.00   |
|           |                   | 1       | 137       | /       | 21.62   | /       | 23.00   |
|           |                   | 1       | 271       | /       | 21.72   | /       | 23.00   |
|           |                   | 135     | 0         | /       | 20.91   | /       | 22.00   |
|           |                   | 135     | 69        | /       | 21.78   | /       | 23.00   |
|           |                   | 135     | 138       | /       | 20.81   | /       | 22.00   |
|           |                   | 270     | 0         | /       | 20.89   | /       | 22.00   |
|           | DFT-s-OFDM 16QAM  | 1       | 1         | /       | 20.97   | /       | 22.00   |
|           | DFT-s-OFDM 64QAM  | 1       | 1         | /       | 19.44   | /       | 20.50   |
|           | DFT-s-OFDM 256QAM | 1       | 1         | /       | 17.66   | /       | 18.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | /       | 633334  | /       |         |
| 100MHz    | CP-OFDM QPSK      | 1       | 1         | /       | 20.46   | /       | 21.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 632668  | 633334  | 634000  |         |
| 80MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 21.37   | 21.37   | 21.31   | 23.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 632000  | 633334  | 634668  |         |
| 60MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 21.35   | 21.30   | 21.32   | 23.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 631334  | 633334  | 635334  |         |
| 40MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 21.27   | 21.39   | 21.39   | 23.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 631001  | 633334  | 635667  |         |
| 30MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 21.36   | 21.31   | 21.40   | 23.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 630668  | 633334  | 636000  |         |
| 20MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 21.37   | 21.30   | 21.39   | 23.00   |

| N77 Part Q Ant2 Receiver on |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3450~3550)        |            |         |           |                      |         |         |         |
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | /                    | 633334  | /       |         |
| 100MHz                      | DFT-s-OFDM | 1       | 1         | /                    | 19.32   | /       | 20.50   |

|           |                   |         |           |         |         |         |         |
|-----------|-------------------|---------|-----------|---------|---------|---------|---------|
|           | PI/2 BPSK         | 1       | 137       | /       | 19.16   | /       | 20.50   |
|           |                   | 1       | 271       | /       | 19.15   | /       | 20.50   |
|           |                   | 135     | 0         | /       | 19.20   | /       | 20.50   |
|           |                   | 135     | 69        | /       | 19.05   | /       | 20.50   |
|           |                   | 135     | 138       | /       | 18.75   | /       | 20.50   |
|           |                   | 270     | 0         | /       | 18.75   | /       | 20.50   |
|           | DFT-s-OFDM QPSK   | 1       | 1         | /       | 19.46   | /       | 20.50   |
|           |                   | 1       | 137       | /       | 18.96   | /       | 20.50   |
|           |                   | 1       | 271       | /       | 19.16   | /       | 20.50   |
|           |                   | 135     | 0         | /       | 19.40   | /       | 20.50   |
|           |                   | 135     | 69        | /       | 19.44   | /       | 20.50   |
|           |                   | 135     | 138       | /       | 19.20   | /       | 20.50   |
|           |                   | 270     | 0         | /       | 19.43   | /       | 20.50   |
|           | DFT-s-OFDM 16QAM  | 1       | 1         | /       | 19.31   | /       | 20.50   |
|           | DFT-s-OFDM 64QAM  | 1       | 1         | /       | 19.34   | /       | 20.50   |
|           | DFT-s-OFDM 256QAM | 1       | 1         | /       | 17.59   | /       | 18.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | /       | 633334  | /       |         |
| 100MHz    | CP-OFDM QPSK      | 1       | 1         | /       | 17.84   | /       | 19.00   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 632668  | 633334  | 634000  |         |
| 80MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.85   | 18.78   | 18.74   | 20.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 632000  | 633334  | 634668  |         |
| 60MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.69   | 18.68   | 18.79   | 20.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 631334  | 633334  | 635334  |         |
| 40MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.69   | 18.71   | 18.87   | 20.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 631001  | 633334  | 635667  |         |
| 30MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.72   | 18.74   | 18.79   | 20.50   |
| Bandwidth | Modulation        | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                   |         |           | 630668  | 633334  | 636000  |         |
| 20MHz     | DFT-s-OFDM QPSK   | 1       | 1         | 18.79   | 18.61   | 18.77   | 20.50   |

| N77 Part Q Ant2 Hotspot on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3450~3550)       |            |         |           |                      |         |         |         |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | /                    | 633334  | /       |         |
|                            |            |         |           | /                    | 3500    | /       |         |

|           |                         |         |           |         |         |         |         |
|-----------|-------------------------|---------|-----------|---------|---------|---------|---------|
| 100MHz    | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | /       | 15.89   | /       | 17.00   |
|           |                         | 1       | 137       | /       | 15.61   | /       | 17.00   |
|           |                         | 1       | 271       | /       | 15.70   | /       | 17.00   |
|           |                         | 135     | 0         | /       | 15.81   | /       | 17.00   |
|           |                         | 135     | 69        | /       | 15.54   | /       | 17.00   |
|           |                         | 135     | 138       | /       | 15.28   | /       | 17.00   |
|           |                         | 270     | 0         | /       | 15.30   | /       | 17.00   |
|           | DFT-s-OFDM<br>QPSK      | 1       | 1         | /       | 15.87   | /       | 17.00   |
|           |                         | 1       | 137       | /       | 15.62   | /       | 17.00   |
|           |                         | 1       | 271       | /       | 15.62   | /       | 17.00   |
|           |                         | 135     | 0         | /       | 15.67   | /       | 17.00   |
|           |                         | 135     | 69        | /       | 15.84   | /       | 17.00   |
|           |                         | 135     | 138       | /       | 15.78   | /       | 17.00   |
|           |                         | 270     | 0         | /       | 15.75   | /       | 17.00   |
|           | DFT-s-OFDM<br>16QAM     | 1       | 1         | /       | 15.80   | /       | 17.00   |
|           | DFT-s-OFDM<br>64QAM     | 1       | 1         | /       | 15.84   | /       | 17.00   |
|           | DFT-s-OFDM<br>256QAM    | 1       | 1         | /       | 15.78   | /       | 17.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | /       | 633334  | /       |         |
| 100MHz    | CP-OFDM<br>QPSK         | 1       | 1         | /       | 14.36   | /       | 15.50   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 632668  | 633334  | 634000  |         |
| 80MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.11   | 15.06   | 15.15   | 17.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 632000  | 633334  | 634668  |         |
| 60MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.16   | 15.19   | 15.19   | 17.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 631334  | 633334  | 635334  |         |
| 40MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.08   | 15.01   | 15.09   | 17.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 631001  | 633334  | 635667  |         |
| 30MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.13   | 15.02   | 15.20   | 17.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 630668  | 633334  | 636000  |         |
| 20MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.13   | 15.07   | 15.16   | 17.00   |

| N77 Part O Ant2 Full Power |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3700~3980)       |            |         |           |                      |         |         |         |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 650000               | 656000  | 662000  |         |



|           |                         |         |           |         |         |         |         |
|-----------|-------------------------|---------|-----------|---------|---------|---------|---------|
| 100MHz    | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 21.72   | 21.89   | 21.84   | 23.00   |
|           |                         | 1       | 137       | 21.62   | 21.86   | 21.82   | 23.00   |
|           |                         | 1       | 271       | 21.65   | 21.83   | 21.75   | 23.00   |
|           |                         | 135     | 0         | 21.28   | 21.42   | 21.35   | 22.50   |
|           |                         | 135     | 69        | 21.67   | 21.81   | 21.74   | 23.00   |
|           |                         | 135     | 138       | 21.18   | 21.37   | 21.24   | 22.50   |
|           |                         | 270     | 0         | 21.19   | 21.33   | 21.29   | 22.50   |
|           | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.69   | 21.91   | 21.87   | 23.00   |
|           |                         | 1       | 137       | 21.60   | 21.82   | 21.68   | 23.00   |
|           |                         | 1       | 271       | 21.69   | 21.86   | 21.82   | 23.00   |
|           |                         | 135     | 0         | 20.73   | 20.86   | 20.83   | 22.00   |
|           |                         | 135     | 69        | 21.66   | 21.82   | 21.67   | 23.00   |
|           |                         | 135     | 138       | 20.66   | 20.84   | 20.81   | 22.00   |
|           |                         | 270     | 0         | 20.51   | 20.72   | 20.60   | 22.00   |
|           | DFT-s-OFDM<br>16QAM     | 1       | 1         | 20.74   | 20.87   | 20.84   | 22.00   |
|           | DFT-s-OFDM<br>64QAM     | 1       | 1         | 19.26   | 19.51   | 19.37   | 20.50   |
|           | DFT-s-OFDM<br>256QAM    | 1       | 1         | 17.20   | 17.43   | 17.36   | 18.50   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 650000  | 656000  | 662000  |         |
| 100MHz    | CP-OFDM<br>QPSK         | 1       | 1         | 20.18   | 20.48   | 20.35   | 21.50   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 649334  | 656000  | 662666  |         |
| 80MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.21   | 21.36   | 21.32   | 23.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 648668  | 656000  | 663332  |         |
| 60MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.15   | 21.44   | 21.44   | 23.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 648000  | 656000  | 664000  |         |
| 40MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.19   | 21.39   | 21.38   | 23.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 647666  | 656000  | 664334  |         |
| 30MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.17   | 21.44   | 21.36   | 23.00   |
| Bandwidth | Modulation              | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                         |         |           | 647334  | 656000  | 664666  |         |
| 20MHz     | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.24   | 21.37   | 21.41   | 23.00   |

| N77 Part O Ant2 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3700~3980)        |                         |         |           |                      |         |         |         |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 650000               | 656000  | 662000  |         |
| 100MHz                      | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 19.05                | 19.26   | 18.98   | 20.50   |
|                             |                         | 1       | 137       | 18.93                | 19.18   | 19.13   | 20.50   |
|                             |                         | 1       | 271       | 18.98                | 19.22   | 19.19   | 20.50   |
|                             |                         | 135     | 0         | 19.19                | 19.18   | 19.06   | 20.50   |
|                             |                         | 135     | 69        | 18.97                | 19.14   | 19.19   | 20.50   |
|                             |                         | 135     | 138       | 18.90                | 19.23   | 19.10   | 20.50   |
|                             |                         | 270     | 0         | 19.01                | 19.20   | 19.19   | 20.50   |
|                             | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.12                | 19.29   | 19.24   | 20.50   |
|                             |                         | 1       | 137       | 18.92                | 19.26   | 19.17   | 20.50   |
|                             |                         | 1       | 271       | 19.08                | 19.21   | 19.23   | 20.50   |
|                             |                         | 135     | 0         | 18.87                | 19.20   | 19.14   | 20.50   |
|                             |                         | 135     | 69        | 19.16                | 19.27   | 19.21   | 20.50   |
|                             |                         | 135     | 138       | 19.00                | 19.17   | 19.22   | 20.50   |
|                             |                         | 270     | 0         | 18.98                | 19.11   | 19.09   | 20.50   |
|                             | DFT-s-OFDM<br>16QAM     | 1       | 1         | 19.05                | 19.09   | 19.01   | 20.50   |
|                             | DFT-s-OFDM<br>64QAM     | 1       | 1         | 18.83                | 19.10   | 19.03   | 20.50   |
|                             | DFT-s-OFDM<br>256QAM    | 1       | 1         | 17.06                | 17.29   | 17.16   | 18.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 650000               | 656000  | 662000  |         |
| 100MHz                      | CP-OFDM<br>QPSK         | 1       | 1         | 17.55                | 17.79   | 17.72   | 19.00   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 649334               | 656000  | 662666  |         |
| 80MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.01                | 19.16   | 19.10   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 648668               | 656000  | 663332  |         |
| 60MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.97                | 19.11   | 19.19   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 648000               | 656000  | 664000  |         |
| 40MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.08                | 19.18   | 19.07   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 647666               | 656000  | 664334  |         |
| 30MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.97                | 19.13   | 19.16   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 647334               | 656000  | 664666  |         |
| 20MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 19.05                | 19.18   | 19.24   | 20.50   |

| N77 Part O Ant2 Hotspot on |                         |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3700~3980)       |                         |         |           |                      |         |         |         |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 650000               | 656000  | 662000  |         |
| 100MHz                     | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | 15.67                | 15.74   | 15.77   | 17.00   |
|                            |                         | 1       | 137       | 15.59                | 15.77   | 15.81   | 17.00   |
|                            |                         | 1       | 271       | 15.50                | 15.77   | 15.73   | 17.00   |
|                            |                         | 135     | 0         | 15.60                | 15.82   | 15.68   | 17.00   |
|                            |                         | 135     | 69        | 15.56                | 15.62   | 15.59   | 17.00   |
|                            |                         | 135     | 138       | 15.51                | 15.76   | 15.56   | 17.00   |
|                            |                         | 270     | 0         | 15.56                | 15.70   | 15.72   | 17.00   |
|                            | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.66                | 15.85   | 15.68   | 17.00   |
|                            |                         | 1       | 137       | 15.53                | 15.81   | 15.50   | 17.00   |
|                            |                         | 1       | 271       | 15.51                | 15.73   | 15.73   | 17.00   |
|                            |                         | 135     | 0         | 15.64                | 15.67   | 15.72   | 17.00   |
|                            |                         | 135     | 69        | 15.61                | 15.80   | 15.48   | 17.00   |
|                            |                         | 135     | 138       | 15.54                | 15.78   | 15.66   | 17.00   |
|                            |                         | 270     | 0         | 15.55                | 15.79   | 15.48   | 17.00   |
|                            | DFT-s-OFDM<br>16QAM     | 1       | 1         | 15.57                | 15.77   | 15.82   | 17.00   |
|                            | DFT-s-OFDM<br>64QAM     | 1       | 1         | 15.35                | 15.74   | 15.70   | 17.00   |
|                            | DFT-s-OFDM<br>256QAM    | 1       | 1         | 15.63                | 15.74   | 15.73   | 17.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 650000               | 656000  | 662000  |         |
| 100MHz                     | CP-OFDM<br>QPSK         | 1       | 1         | 14.14                | 14.37   | 14.15   | 15.50   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 649334               | 656000  | 662666  |         |
| 80MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.58                | 15.85   | 15.54   | 17.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 648668               | 656000  | 663332  |         |
| 60MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.58                | 15.71   | 15.52   | 17.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 648000               | 656000  | 664000  |         |
| 40MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.50                | 15.85   | 15.54   | 17.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 647666               | 656000  | 664334  |         |
| 30MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.63                | 15.66   | 15.53   | 17.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 647334               | 656000  | 664666  |         |
| 20MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 15.57                | 15.81   | 15.48   | 17.00   |

| N78 Part Q Ant2 Full Power |                         |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3450~3550)       |                         |         |           |                      |         |         |         |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | /                    | 633334  | /       |         |
| 100MHz                     | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | /                    | 21.72   | /       | 23.00   |
|                            |                         | 1       | 137       | /                    | 21.62   | /       | 23.00   |
|                            |                         | 1       | 271       | /                    | 21.66   | /       | 23.00   |
|                            |                         | 135     | 0         | /                    | 21.25   | /       | 22.50   |
|                            |                         | 135     | 69        | /                    | 21.63   | /       | 23.00   |
|                            |                         | 135     | 138       | /                    | 21.19   | /       | 22.50   |
|                            |                         | 270     | 0         | /                    | 21.21   | /       | 22.50   |
|                            | DFT-s-OFDM<br>QPSK      | 1       | 1         | /                    | 21.89   | /       | 23.00   |
|                            |                         | 1       | 137       | /                    | 21.69   | /       | 23.00   |
|                            |                         | 1       | 271       | /                    | 21.58   | /       | 23.00   |
|                            |                         | 135     | 0         | /                    | 20.83   | /       | 22.00   |
|                            |                         | 135     | 69        | /                    | 21.83   | /       | 23.00   |
|                            |                         | 135     | 138       | /                    | 20.79   | /       | 22.00   |
|                            |                         | 270     | 0         | /                    | 20.81   | /       | 22.00   |
|                            | DFT-s-OFDM<br>16QAM     | 1       | 1         | /                    | 20.76   | /       | 22.00   |
|                            | DFT-s-OFDM<br>64QAM     | 1       | 1         | /                    | 19.24   | /       | 20.50   |
|                            | DFT-s-OFDM<br>256QAM    | 1       | 1         | /                    | 17.49   | /       | 18.50   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | /                    | 633334  | /       |         |
| 100MHz                     | CP-OFDM<br>QPSK         | 1       | 1         |                      | 20.39   |         | 21.50   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 633000               | 633334  | 633668  |         |
| 90MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.46                | 21.54   | 21.35   | 23.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 632668               | 633334  | 634000  |         |
| 80MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.38                | 21.46   | 21.40   | 23.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 632334               | 633334  | 634334  |         |
| 70MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.46                | 21.52   | 21.39   | 23.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 632000               | 633334  | 634668  |         |
| 60MHz                      | DFT-s-OFDM<br>QPSK      | 1       | 1         | 21.39                | 21.47   | 21.37   | 23.00   |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | 631668               | 633334  | 635000  |         |

|              |                 |         |           |         |         |         |         |
|--------------|-----------------|---------|-----------|---------|---------|---------|---------|
| <b>50MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 21.41   | 21.53   | 21.42   | 23.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 631334  | 633334  | 635334  |         |
| <b>40MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 21.42   | 21.53   | 21.34   | 23.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 631001  | 633334  | 635667  |         |
| <b>30MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 21.45   | 21.55   | 21.39   | 23.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 630668  | 633334  | 636000  |         |
| <b>20MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 21.47   | 21.55   | 21.42   | 23.00   |

| N78 Part Q Ant2 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3450~3550)        |                         |         |           |                      |         |         |         |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | /                    | 633334  | /       |         |
| 100MHz                      | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | /                    | 19.17   | /       | 20.50   |
|                             |                         | 1       | 137       | /                    | 19.08   | /       | 20.50   |
|                             |                         | 1       | 271       | /                    | 19.12   | /       | 20.50   |
|                             |                         | 135     | 0         | /                    | 19.16   | /       | 20.50   |
|                             |                         | 135     | 69        | /                    | 19.03   | /       | 20.50   |
|                             |                         | 135     | 138       | /                    | 19.04   | /       | 20.50   |
|                             |                         | 270     | 0         | /                    | 19.05   | /       | 20.50   |
|                             | DFT-s-OFDM<br>QPSK      | 1       | 1         | /                    | 19.29   | /       | 20.50   |
|                             |                         | 1       | 137       | /                    | 19.02   | /       | 20.50   |
|                             |                         | 1       | 271       | /                    | 18.92   | /       | 20.50   |
|                             |                         | 135     | 0         | /                    | 19.03   | /       | 20.50   |
|                             |                         | 135     | 69        | /                    | 19.26   | /       | 20.50   |
|                             |                         | 135     | 138       | /                    | 19.24   | /       | 20.50   |
|                             |                         | 270     | 0         | /                    | 19.10   | /       | 20.50   |
|                             | DFT-s-OFDM<br>16QAM     | 1       | 1         | /                    | 19.19   | /       | 20.50   |
|                             | DFT-s-OFDM<br>64QAM     | 1       | 1         | /                    | 19.04   | /       | 20.50   |
|                             | DFT-s-OFDM<br>256QAM    | 1       | 1         | /                    | 17.32   | /       | 18.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | /                    | 633334  | /       |         |
| 100MHz                      | CP-OFDM<br>QPSK         | 1       | 1         |                      | 17.77   |         | 19.00   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 633000               | 633334  | 633668  |         |
| 90MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.89                | 18.97   | 18.80   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 632668               | 633334  | 634000  |         |

|              |                 |         |           |         |         |         |         |
|--------------|-----------------|---------|-----------|---------|---------|---------|---------|
| <b>80MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.71   | 18.84   | 18.82   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 632334  | 633334  | 634334  |         |
| <b>70MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.83   | 18.83   | 18.71   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 632000  | 633334  | 634668  |         |
| <b>60MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.88   | 18.83   | 18.85   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 631668  | 633334  | 635000  |         |
| <b>50MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.77   | 18.86   | 18.74   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 631334  | 633334  | 635334  |         |
| <b>40MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.76   | 19.02   | 18.84   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 631001  | 633334  | 635667  |         |
| <b>30MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.92   | 18.98   | 18.79   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 630668  | 633334  | 636000  |         |
| <b>20MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.78   | 18.93   | 18.75   | 20.50   |

| N78 Part Q Ant2 Hotspot on |                         |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3450~3550)       |                         |         |           |                      |         |         |         |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | /                    | 633334  | /       |         |
| 100MHz                     | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | /                    | 15.57   | /       | 17.00   |
|                            |                         | 1       | 137       | /                    | 15.46   | /       | 17.00   |
|                            |                         | 1       | 271       | /                    | 15.58   | /       | 17.00   |
|                            |                         | 135     | 0         | /                    | 15.70   | /       | 17.00   |
|                            |                         | 135     | 69        | /                    | 15.55   | /       | 17.00   |
|                            |                         | 135     | 138       | /                    | 15.50   | /       | 17.00   |
|                            |                         | 270     | 0         | /                    | 15.69   | /       | 17.00   |
|                            | DFT-s-OFDM<br>QPSK      | 1       | 1         | /                    | 15.85   | /       | 17.00   |
|                            |                         | 1       | 137       | /                    | 15.55   | /       | 17.00   |
|                            |                         | 1       | 271       | /                    | 15.46   | /       | 17.00   |
|                            |                         | 135     | 0         | /                    | 15.73   | /       | 17.00   |
|                            |                         | 135     | 69        | /                    | 15.83   | /       | 17.00   |
|                            |                         | 135     | 138       | /                    | 15.77   | /       | 17.00   |
|                            |                         | 270     | 0         | /                    | 15.79   | /       | 17.00   |
|                            | DFT-s-OFDM<br>16QAM     | 1       | 1         | /                    | 15.75   | /       | 17.00   |
|                            | DFT-s-OFDM<br>64QAM     | 1       | 1         | /                    | 15.64   | /       | 17.00   |

|           |                      |         |           |         |         |         |         |
|-----------|----------------------|---------|-----------|---------|---------|---------|---------|
|           | DFT-s-OFDM<br>256QAM | 1       | 1         | /       | 15.81   | /       | 17.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | /       | 633334  | /       |         |
| 100MHz    | CP-OFDM<br>QPSK      | 1       | 1         |         | 14.20   |         | 15.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 633000  | 633334  | 633668  |         |
| 90MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 15.40   | 15.53   | 15.28   | 17.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 632668  | 633334  | 634000  |         |
| 80MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 15.33   | 15.45   | 15.40   | 17.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 632334  | 633334  | 634334  |         |
| 70MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 15.30   | 15.37   | 15.21   | 17.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 632000  | 633334  | 634668  |         |
| 60MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 15.28   | 15.33   | 15.30   | 17.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 631668  | 633334  | 635000  |         |
| 50MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 15.37   | 15.51   | 15.30   | 17.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 631334  | 633334  | 635334  |         |
| 40MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 15.39   | 15.49   | 15.32   | 17.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 631001  | 633334  | 635667  |         |
| 30MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 15.35   | 15.50   | 15.21   | 17.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 630668  | 633334  | 636000  |         |
| 20MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 15.37   | 15.51   | 15.36   | 17.00   |

| N78 Part O Ant2 Full Power |                         |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3700~3800)       |                         |         |           |                      |         |         |         |
| Bandwidth                  | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                         |         |           | /                    | 650000  | /       |         |
| 100MHz                     | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | /                    | 21.85   | /       | 23.00   |
|                            |                         | 1       | 137       | /                    | 21.73   | /       | 23.00   |
|                            |                         | 1       | 271       | /                    | 21.82   | /       | 23.00   |
|                            |                         | 135     | 0         | /                    | 21.39   | /       | 22.50   |
|                            |                         | 135     | 69        | /                    | 21.76   | /       | 23.00   |

|           |                      |         |           |         |         |         |         |
|-----------|----------------------|---------|-----------|---------|---------|---------|---------|
|           |                      | 135     | 138       | /       | 21.31   | /       | 22.50   |
|           |                      | 270     | 0         | /       | 21.33   | /       | 22.50   |
|           | DFT-s-OFDM<br>QPSK   | 1       | 1         | /       | 21.88   | /       | 23.00   |
|           |                      | 1       | 137       | /       | 21.85   | /       | 23.00   |
|           |                      | 1       | 271       | /       | 21.73   | /       | 23.00   |
|           |                      | 135     | 0         | /       | 20.81   | /       | 22.00   |
|           |                      | 135     | 69        | /       | 21.80   | /       | 23.00   |
|           |                      | 135     | 138       | /       | 20.77   | /       | 22.00   |
|           |                      | 270     | 0         | /       | 20.79   | /       | 22.00   |
|           | DFT-s-OFDM<br>16QAM  | 1       | 1         | /       | 20.81   | /       | 22.00   |
|           | DFT-s-OFDM<br>64QAM  | 1       | 1         | /       | 19.38   | /       | 20.50   |
|           | DFT-s-OFDM<br>256QAM | 1       | 1         | /       | 17.45   | /       | 18.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | /       | 650000  | /       |         |
| 100MHz    | CP-OFDM<br>QPSK      | 1       | 1         | /       | 20.39   | /       | 21.50   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 649668  | 650000  | 650334  |         |
| 90MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.40   | 21.52   | 21.37   | 23.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 649334  | 650000  | 650668  |         |
| 80MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.43   | 21.53   | 21.43   | 23.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 649000  | 650000  | 651000  |         |
| 70MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.39   | 21.50   | 21.35   | 23.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 648668  | 650000  | 651334  |         |
| 60MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.41   | 21.52   | 21.43   | 23.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 648334  | 650000  | 651668  |         |
| 50MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.36   | 21.51   | 21.38   | 23.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 648000  | 650000  | 652000  |         |
| 40MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.38   | 21.54   | 21.42   | 23.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 647668  | 650000  | 652334  |         |
| 30MHz     | DFT-s-OFDM<br>QPSK   | 1       | 1         | 21.39   | 21.51   | 21.44   | 23.00   |
| Bandwidth | Modulation           | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                      |         |           | 647334  | 650000  | 652668  |         |



|       |                    |   |   |       |       |       |       |
|-------|--------------------|---|---|-------|-------|-------|-------|
| 20MHz | DFT-s-OFDM<br>QPSK | 1 | 1 | 21.40 | 21.48 | 21.39 | 23.00 |
|-------|--------------------|---|---|-------|-------|-------|-------|

| N78 Part O Ant2 Receiver on |                         |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|-------------------------|---------|-----------|----------------------|---------|---------|---------|
| SCS 30kHz(3700~3800)        |                         |         |           |                      |         |         |         |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | /                    | 650000  | /       |         |
|                             |                         |         |           | /                    | 3750.00 | /       |         |
| 100MHz                      | DFT-s-OFDM<br>PI/2 BPSK | 1       | 1         | /                    | 19.18   | /       | 20.50   |
|                             |                         | 1       | 137       | /                    | 19.07   | /       | 20.50   |
|                             |                         | 1       | 271       | /                    | 19.31   | /       | 20.50   |
|                             |                         | 135     | 0         | /                    | 19.33   | /       | 20.50   |
|                             |                         | 135     | 69        | /                    | 19.09   | /       | 20.50   |
|                             |                         | 135     | 138       | /                    | 19.24   | /       | 20.50   |
|                             |                         | 270     | 0         | /                    | 19.26   | /       | 20.50   |
|                             | DFT-s-OFDM<br>QPSK      | 1       | 1         | /                    | 19.29   | /       | 20.50   |
|                             |                         | 1       | 137       | /                    | 19.16   | /       | 20.50   |
|                             |                         | 1       | 271       | /                    | 19.08   | /       | 20.50   |
|                             |                         | 135     | 0         | /                    | 19.11   | /       | 20.50   |
|                             |                         | 135     | 69        | /                    | 19.23   | /       | 20.50   |
|                             |                         | 135     | 138       | /                    | 19.19   | /       | 20.50   |
|                             |                         | 270     | 0         | /                    | 19.13   | /       | 20.50   |
|                             | DFT-s-OFDM<br>16QAM     | 1       | 1         | /                    | 19.26   | /       | 20.50   |
|                             | DFT-s-OFDM<br>64QAM     | 1       | 1         | /                    | 19.33   | /       | 20.50   |
|                             | DFT-s-OFDM<br>256QAM    | 1       | 1         | /                    | 17.25   | /       | 18.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | /                    | 650000  | /       |         |
| 100MHz                      | CP-OFDM<br>QPSK         | 1       | 1         | /                    | 17.81   | /       | 19.00   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 649668               | 650000  | 650334  |         |
| 90MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.84                | 18.82   | 18.72   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 649334               | 650000  | 650668  |         |
| 80MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.75                | 18.93   | 18.87   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 649000               | 650000  | 651000  |         |
| 70MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.81                | 18.80   | 18.68   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                         |         |           | 648668               | 650000  | 651334  |         |
| 60MHz                       | DFT-s-OFDM<br>QPSK      | 1       | 1         | 18.85                | 18.90   | 18.92   | 20.50   |
| Bandwidth                   | Modulation              | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|              |                 |         |           |         |         |         |         |
|--------------|-----------------|---------|-----------|---------|---------|---------|---------|
|              |                 |         |           | 648334  | 650000  | 651668  |         |
| <b>50MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.83   | 19.00   | 18.77   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 648000  | 650000  | 652000  |         |
| <b>40MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.72   | 18.93   | 18.81   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 647668  | 650000  | 652334  |         |
| <b>30MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.86   | 18.94   | 18.86   | 20.50   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 647334  | 650000  | 652668  |         |
| <b>20MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 18.90   | 18.79   | 18.75   | 20.50   |

| N78 Part O Ant2 Hotspot on |                         |            |           | Conducted Power(dBm) |         |         |         |         |
|----------------------------|-------------------------|------------|-----------|----------------------|---------|---------|---------|---------|
| SCS 30kHz(3700~3800)       |                         |            |           |                      |         |         |         |         |
| Bandwidth                  | Modulation              | RB size    | RB offset | Channel              | Channel | Channel | Tune up |         |
|                            |                         |            |           | /                    | 650000  | /       |         |         |
| 100MHz                     | DFT-s-OFDM<br>PI/2 BPSK | 1          | 1         | /                    | 15.68   | /       | 17.00   |         |
|                            |                         | 1          | 137       | /                    | 15.61   | /       | 17.00   |         |
|                            |                         | 1          | 271       | /                    | 15.79   | /       | 17.00   |         |
|                            |                         | 135        | 0         | /                    | 15.85   | /       | 17.00   |         |
|                            |                         | 135        | 69        | /                    | 15.62   | /       | 17.00   |         |
|                            |                         | 135        | 138       | /                    | 15.64   | /       | 17.00   |         |
|                            |                         | 270        | 0         | /                    | 15.69   | /       | 17.00   |         |
|                            | DFT-s-OFDM<br>QPSK      | 1          | 1         | /                    | 15.83   | /       | 17.00   |         |
|                            |                         | 1          | 137       | /                    | 15.70   | /       | 17.00   |         |
|                            |                         | 1          | 271       | /                    | 15.57   | /       | 17.00   |         |
|                            |                         | 135        | 0         | /                    | 15.78   | /       | 17.00   |         |
|                            |                         | 135        | 69        | /                    | 15.61   | /       | 17.00   |         |
|                            |                         | 135        | 138       | /                    | 15.63   | /       | 17.00   |         |
|                            |                         | 270        | 0         | /                    | 15.74   | /       | 17.00   |         |
|                            | DFT-s-OFDM<br>16QAM     | 1          | 1         | /                    | 15.79   | /       | 17.00   |         |
|                            | DFT-s-OFDM<br>64QAM     | 1          | 1         | /                    | 15.83   | /       | 17.00   |         |
|                            | DFT-s-OFDM<br>256QAM    | 1          | 1         | /                    | 15.94   | /       | 17.00   |         |
|                            | Bandwidth               | Modulation | RB size   | RB offset            | Channel | Channel | Channel | Tune up |
|                            |                         |            |           |                      | /       | 650000  | /       |         |
| 100MHz                     | CP-OFDM<br>QPSK         | 1          | 1         | /                    | 14.33   | /       | 15.50   |         |
| Bandwidth                  | Modulation              | RB size    | RB offset | Channel              | Channel | Channel | Tune up |         |
|                            |                         |            |           | 649668               | 650000  | 650334  |         |         |
| 90MHz                      | DFT-s-OFDM<br>QPSK      | 1          | 1         | 15.32                | 15.47   | 15.31   | 17.00   |         |
| Bandwidth                  | Modulation              | RB size    | RB offset | Channel              | Channel | Channel | Tune up |         |

|              |                 |         |           |         |         |         |         |
|--------------|-----------------|---------|-----------|---------|---------|---------|---------|
|              |                 |         |           | 649334  | 650000  | 650668  |         |
| <b>80MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 15.39   | 15.33   | 15.43   | 17.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 649000  | 650000  | 651000  |         |
| <b>70MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 15.23   | 15.31   | 15.22   | 17.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 648668  | 650000  | 651334  |         |
| <b>60MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 15.40   | 15.49   | 15.40   | 17.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 648334  | 650000  | 651668  |         |
| <b>50MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 15.29   | 15.40   | 15.37   | 17.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 648000  | 650000  | 652000  |         |
| <b>40MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 15.19   | 15.40   | 15.28   | 17.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 647668  | 650000  | 652334  |         |
| <b>30MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 15.21   | 15.46   | 15.25   | 17.00   |
| Bandwidth    | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|              |                 |         |           | 647334  | 650000  | 652668  |         |
| <b>20MHz</b> | DFT-s-OFDM QPSK | 1       | 1         | 15.26   | 15.37   | 15.24   | 17.00   |

## 6. Conducted Power of WIFI

| WIFI 2.4GHz SISO Ant1 Full Power |         |                 |                 |                     |         |
|----------------------------------|---------|-----------------|-----------------|---------------------|---------|
| Mode                             | Channel | Frequency (MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| 802.11b                          | 1       | 2412            | 1               | 16.09               | 17.50   |
|                                  | 6       | 2437            |                 | 18.50               | 19.50   |
|                                  | 11      | 2462            |                 | 17.91               | 19.00   |
| 802.11g                          | 1       | 2412            | 6               | 11.70               | 13.00   |
|                                  | 6       | 2437            |                 | 13.03               | 14.50   |
|                                  | 11      | 2462            |                 | 12.54               | 14.00   |
| 802.11n (HT20)                   | 1       | 2412            | MCS0            | 8.44                | 9.50    |
|                                  | 6       | 2437            |                 | 8.67                | 10.00   |
|                                  | 11      | 2462            |                 | 8.22                | 9.50    |
| 802.11n (HT40)                   | 3       | 2422            | MCS0            | 6.88                | 8.00    |
|                                  | 6       | 2437            |                 | 8.50                | 9.50    |
|                                  | 9       | 2452            |                 | 8.29                | 9.50    |

|                     |    |      |      |      |       |
|---------------------|----|------|------|------|-------|
| 802.11ax<br>(HEW20) | 1  | 2412 | MCS0 | 7.54 | 9.00  |
|                     | 6  | 2437 |      | 8.75 | 10.00 |
|                     | 11 | 2462 |      | 8.33 | 9.50  |
| 802.11ax<br>(HEW40) | 3  | 2422 | MCS0 | 5.51 | 7.00  |
|                     | 6  | 2437 |      | 7.09 | 8.50  |
|                     | 9  | 2452 |      | 7.06 | 8.50  |

| WIFI 2.4GHz SISO Ant1 Hotspot |         |                    |                 |                           |         |
|-------------------------------|---------|--------------------|-----------------|---------------------------|---------|
| Mode                          | Channel | Frequency<br>(MHz) | Data Rate(Mbps) | Average<br>Power<br>(dBm) | Tune up |
| 802.11b                       | 1       | 2412               | 1               | 16.09                     | 17.50   |
|                               | 6       | 2437               |                 | 16.39                     | 17.50   |
|                               | 11      | 2462               |                 | 16.36                     | 17.50   |
| 802.11g                       | 1       | 2412               | 6               | 11.70                     | 13.00   |
|                               | 6       | 2437               |                 | 13.03                     | 14.50   |
|                               | 11      | 2462               |                 | 12.54                     | 14.00   |
| 802.11n<br>(HT20)             | 1       | 2412               | MCS0            | 8.44                      | 9.50    |
|                               | 6       | 2437               |                 | 8.67                      | 10.00   |
|                               | 11      | 2462               |                 | 8.22                      | 9.50    |
| 802.11n<br>(HT40)             | 3       | 2422               | MCS0            | 6.88                      | 8.00    |
|                               | 6       | 2437               |                 | 8.50                      | 9.50    |
|                               | 9       | 2452               |                 | 8.29                      | 9.50    |
| 802.11ax<br>(HEW20)           | 1       | 2412               | MCS0            | 7.54                      | 9.00    |
|                               | 6       | 2437               |                 | 8.75                      | 10.00   |
|                               | 11      | 2462               |                 | 8.33                      | 9.50    |
| 802.11ax<br>(HEW40)           | 3       | 2422               | MCS0            | 5.51                      | 7.00    |
|                               | 6       | 2437               |                 | 7.09                      | 8.50    |
|                               | 9       | 2452               |                 | 7.06                      | 8.50    |

| WIFI 2.4GHz SISO Ant5 Full Power |         |                    |                 |                           |         |
|----------------------------------|---------|--------------------|-----------------|---------------------------|---------|
| Mode                             | Channel | Frequency<br>(MHz) | Data Rate(Mbps) | Average<br>Power<br>(dBm) | Tune up |
| 802.11b                          | 1       | 2412               | 1               | 15.54                     | 17.00   |
|                                  | 6       | 2437               |                 | 18.12                     | 19.50   |
|                                  | 11      | 2462               |                 | 17.78                     | 19.00   |
| 802.11g                          | 1       | 2412               | 6               | 11.54                     | 13.00   |
|                                  | 6       | 2437               |                 | 12.92                     | 14.00   |

|                     |    |      |      |       |       |
|---------------------|----|------|------|-------|-------|
|                     | 11 | 2462 |      | 12.56 | 14.00 |
| 802.11n<br>(HT20)   | 1  | 2412 | MCS0 | 7.76  | 9.00  |
|                     | 6  | 2437 |      | 8.58  | 10.00 |
|                     | 11 | 2462 |      | 8.11  | 9.50  |
| 802.11n<br>(HT40)   | 3  | 2422 | MCS0 | 6.75  | 8.00  |
|                     | 6  | 2437 |      | 8.11  | 9.50  |
|                     | 9  | 2452 |      | 7.86  | 9.00  |
| 802.11ax<br>(HEW20) | 1  | 2412 | MCS0 | 6.85  | 8.00  |
|                     | 6  | 2437 |      | 8.52  | 10.00 |
|                     | 11 | 2462 |      | 8.31  | 9.50  |
| 802.11ax<br>(HEW40) | 3  | 2422 | MCS0 | 5.53  | 7.00  |
|                     | 6  | 2437 |      | 6.78  | 8.00  |
|                     | 9  | 2452 |      | 6.45  | 7.50  |

| WIFI 2.4GHz MIMO Full Power |         |                 |                 |                     |         |
|-----------------------------|---------|-----------------|-----------------|---------------------|---------|
| Mode                        | Channel | Frequency (MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up |
| 802.11b                     | 1       | 2412            | 1               | /                   | /       |
|                             | 6       | 2437            |                 | /                   | /       |
|                             | 11      | 2462            |                 | /                   | /       |
| 802.11g                     | 1       | 2412            | 6               | /                   | /       |
|                             | 6       | 2437            |                 | /                   | /       |
|                             | 11      | 2462            |                 | /                   | /       |
| 802.11n<br>(HT20)           | 1       | 2412            | MCS0            | 11.12               | 12.50   |
|                             | 6       | 2437            |                 | 11.41               | 12.50   |
|                             | 11      | 2462            |                 | 11.41               | 12.50   |
| 802.11n<br>(HT40)           | 3       | 2422            | MCS0            | 9.83                | 11.00   |
|                             | 6       | 2437            |                 | 11.20               | 12.50   |
|                             | 9       | 2452            |                 | 11.21               | 12.50   |
| 802.11ax<br>(HEW20)         | 1       | 2412            | MCS0            | 10.22               | 11.50   |
|                             | 6       | 2437            |                 | 11.55               | 12.50   |
|                             | 11      | 2462            |                 | 11.44               | 12.50   |
| 802.11ax<br>(HEW40)         | 3       | 2422            | MCS0            | 8.53                | 10.00   |
|                             | 6       | 2437            |                 | 9.79                | 11.00   |
|                             | 9       | 2452            |                 | 9.93                | 11.00   |

| WIFI 5G |      |         |                |                 | Ant 1               |         | Ant5                |         | MIMO                |         |
|---------|------|---------|----------------|-----------------|---------------------|---------|---------------------|---------|---------------------|---------|
| 5GHz    | mode | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11a | U-   | 36      | 5180           | 6               | 16.23               | 17.00   | 15.90               | 17.00   | /                   | /       |

|              |          |         |                |                 |                     |         |                     |         |                     |         |
|--------------|----------|---------|----------------|-----------------|---------------------|---------|---------------------|---------|---------------------|---------|
|              | NII-1    | 40      | 5200           |                 | 16.82               | 17.00   | 16.12               | 17.00   | /                   | /       |
|              |          | 48      | 5240           |                 | 16.06               | 17.00   | 16.59               | 17.00   | /                   | /       |
|              | U-NII-2A | 52      | 5260           |                 | 16.20               | 17.00   | 16.28               | 17.00   | /                   | /       |
|              |          | 60      | 5300           |                 | 16.50               | 17.00   | 16.55               | 17.00   | /                   | /       |
|              |          | 64      | 5320           |                 | 16.52               | 17.00   | 16.98               | 17.00   | /                   | /       |
|              | U-NII-2C | 100     | 5500           |                 | 16.38               | 17.00   | 16.52               | 17.00   | /                   | /       |
|              |          | 116     | 5580           |                 | 15.69               | 17.00   | 16.45               | 17.00   | /                   | /       |
|              |          | 140     | 5700           |                 | 16.76               | 17.00   | 16.58               | 17.00   | /                   | /       |
|              | U-NII-3  | 149     | 5745           |                 | 16.80               | 17.00   | 16.74               | 17.00   | /                   | /       |
|              |          | 157     | 5785           |                 | 16.81               | 17.00   | 16.78               | 17.00   | /                   | /       |
|              |          | 165     | 5825           |                 | 16.68               | 17.00   | 16.86               | 17.00   | /                   | /       |
| 5GHz         | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11n-HT20 | U-NII-1  | 36      | 5180           | MCS0            | 12.52               | 14.00   | 12.51               | 14.00   | 15.53               | 16.50   |
|              |          | 44      | 5220           |                 | 13.11               | 14.00   | 13.00               | 14.00   | 16.07               | 17.00   |
|              |          | 48      | 5240           |                 | 13.05               | 14.00   | 13.03               | 14.00   | 16.05               | 17.00   |
|              | U-NII-2A | 52      | 5260           |                 | 12.46               | 14.00   | 12.24               | 14.00   | 15.36               | 16.50   |
|              |          | 60      | 5300           |                 | 12.62               | 14.00   | 12.64               | 14.00   | 15.64               | 17.00   |
|              |          | 64      | 5320           |                 | 12.69               | 14.00   | 12.57               | 14.00   | 15.64               | 17.00   |
|              | U-NII-2C | 100     | 5500           |                 | 12.78               | 14.00   | 13.72               | 14.00   | 16.29               | 17.50   |
|              |          | 116     | 5580           |                 | 12.96               | 14.00   | 13.66               | 14.00   | 16.33               | 17.50   |
|              |          | 140     | 5700           |                 | 12.86               | 14.00   | 13.30               | 14.00   | 16.10               | 17.50   |
|              | U-NII-3  | 149     | 5745           |                 | 12.70               | 14.00   | 13.84               | 15.00   | 16.32               | 17.50   |
|              |          | 157     | 5785           |                 | 12.85               | 14.00   | 13.74               | 15.00   | 16.33               | 17.50   |
|              |          | 165     | 5825           |                 | 12.82               | 14.00   | 13.72               | 15.00   | 16.30               | 17.50   |
| 5GHz         | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11n-HT40 | U-NII-1  | 38      | 5190           | MCS0            | 11.26               | 12.50   | 11.55               | 13.00   | 14.42               | 15.50   |
|              |          | 46      | 5230           |                 | 11.70               | 13.00   | 11.86               | 13.00   | 14.79               | 16.00   |
|              | U-NII-2A | 54      | 5270           |                 | 10.45               | 11.50   | 11.21               | 12.50   | 13.86               | 15.00   |
|              |          | 62      | 5310           |                 | 10.11               | 11.50   | 11.65               | 13.00   | 13.96               | 15.00   |
|              | U-NII-2C | 102     | 5510           |                 | 10.40               | 11.50   | 11.93               | 13.00   | 14.24               | 15.50   |
|              |          | 110     | 5550           |                 | 10.34               | 11.50   | 12.18               | 13.50   | 14.37               | 15.50   |
|              |          | 134     | 5670           |                 | 10.94               | 12.00   | 11.99               | 13.00   | 14.51               | 16.00   |
|              | U-NII-3  | 151     | 5755           |                 | 10.83               | 12.00   | 11.50               | 12.50   | 14.19               | 15.50   |
|              |          | 159     | 5795           |                 | 11.43               | 12.50   | 12.57               | 14.00   | 15.05               | 16.50   |
| 5GHz         | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ac-20  | U-NII-1  | 36      | 5180           | MCS0            | 10.98               | 12.00   | 11.38               | 12.50   | 14.19               | 15.50   |
|              |          | 40      | 5200           |                 | 11.44               | 12.50   | 11.94               | 13.00   | 14.71               | 16.00   |
|              |          | 48      | 5240           |                 | 11.93               | 13.00   | 12.37               | 13.50   | 15.17               | 16.50   |
|              | U-       | 52      | 5260           |                 | 11.68               | 13.00   | 12.38               | 13.50   | 15.05               | 16.50   |

|               | NII-2A   | 60      | 5300           |                 | 11.00               | 12.00   | 12.36               | 13.50   | 14.74               | 16.00   |
|---------------|----------|---------|----------------|-----------------|---------------------|---------|---------------------|---------|---------------------|---------|
|               |          | 64      | 5320           |                 | 11.08               | 12.50   | 12.58               | 14.00   | 14.90               | 16.00   |
|               | U-NII-2C | 100     | 5500           |                 | 10.00               | 11.00   | 11.66               | 13.00   | 13.92               | 15.00   |
|               |          | 116     | 5580           |                 | 11.51               | 13.00   | 13.37               | 14.50   | 15.55               | 17.00   |
|               |          | 140     | 5700           |                 | 12.51               | 14.00   | 13.08               | 14.50   | 15.81               | 17.00   |
|               | U-NII-3  | 149     | 5745           |                 | 12.28               | 13.50   | 13.01               | 14.50   | 15.67               | 17.00   |
|               |          | 157     | 5785           |                 | 12.56               | 14.00   | 13.68               | 15.00   | 16.17               | 17.50   |
|               |          | 165     | 5825           |                 | 12.85               | 14.00   | 13.72               | 15.00   | 16.32               | 17.50   |
|               |          |         |                |                 |                     |         |                     |         |                     |         |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ac-40   | U-NII-1  | 38      | 5190           | MCS0            | 11.38               | 12.50   | 11.60               | 13.00   | 14.50               | 16.00   |
|               |          | 46      | 5230           |                 | 11.73               | 13.00   | 11.94               | 13.00   | 14.85               | 16.00   |
|               | U-NII-2A | 54      | 5270           |                 | 10.55               | 12.00   | 11.43               | 12.50   | 14.02               | 15.50   |
|               |          | 62      | 5310           |                 | 10.18               | 11.50   | 11.71               | 13.00   | 14.02               | 15.50   |
|               | U-NII-2C | 102     | 5510           |                 | 9.34                | 10.50   | 11.03               | 12.50   | 13.28               | 14.50   |
|               |          | 110     | 5550           |                 | 10.33               | 11.50   | 12.33               | 13.50   | 14.45               | 15.50   |
|               |          | 134     | 5670           |                 | 10.91               | 12.00   | 12.13               | 13.50   | 14.57               | 16.00   |
|               | U-NII-3  | 151     | 5755           |                 | 10.81               | 12.00   | 11.54               | 13.00   | 14.20               | 15.50   |
|               |          | 159     | 5795           |                 | 11.49               | 12.50   | 12.60               | 14.00   | 15.09               | 16.50   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ac 80M  | U-NII-1  | 42      | 5210           | MCS0            | 11.04               | 12.50   | 11.21               | 12.50   | 14.14               | 15.50   |
|               | U-NII-2A | 58      | 5290           |                 | 10.81               | 12.00   | 12.23               | 13.50   | 14.59               | 16.00   |
|               | U-NII-2C | 106     | 5530           |                 | 8.75                | 10.00   | 11.11               | 12.50   | 13.10               | 14.50   |
|               |          | 122     | 5610           |                 | 9.49                | 10.50   | 11.48               | 12.50   | 13.61               | 15.00   |
|               | U-NII-3  | 155     | 5775           |                 | 10.21               | 11.50   | 11.37               | 12.50   | 13.84               | 15.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ac 160M |          | 50      | 5250           | MCS0            | 7.65                | 9.00    | 9.90                | 11.00   | 11.93               | 13.00   |
|               |          | 114     | 5570           |                 | 8.50                | 9.50    | 9.14                | 10.50   | 11.84               | 13.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ax-20   | U-NII-1  | 36      | 5180           | MCS0            | 8.95                | 10.00   | 9.45                | 10.50   | 12.22               | 13.50   |
|               |          | 40      | 5200           |                 | 9.42                | 10.50   | 9.90                | 11.00   | 12.68               | 14.00   |
|               |          | 48      | 5240           |                 | 10.14               | 11.50   | 10.69               | 12.00   | 13.43               | 14.50   |
|               | U-NII-2A | 52      | 5260           |                 | 9.84                | 11.00   | 10.67               | 12.00   | 13.29               | 14.50   |
|               |          | 60      | 5300           |                 | 9.02                | 10.50   | 10.62               | 12.00   | 12.90               | 14.00   |
|               |          | 64      | 5320           |                 | 9.25                | 10.50   | 10.98               | 12.00   | 13.21               | 14.50   |
|               |          | 100     | 5500           |                 | 9.10                | 10.50   | 10.83               | 12.00   | 13.06               | 14.50   |
|               | U-NII-2C | 116     | 5580           |                 | 10.72               | 12.00   | 12.59               | 14.00   | 14.77               | 16.00   |
|               |          | 140     | 5700           |                 | 11.61               | 13.00   | 12.39               | 13.50   | 15.03               | 16.50   |
|               |          |         |                |                 |                     |         |                     |         |                     |         |

|               | U-NII-3  | 149     | 5745           |                 | 10.32               | 11.50   | 11.17               | 12.50   | 13.78               | 15.00   |
|---------------|----------|---------|----------------|-----------------|---------------------|---------|---------------------|---------|---------------------|---------|
|               |          | 157     | 5785           |                 | 10.75               | 12.00   | 11.82               | 13.00   | 14.33               | 15.50   |
|               |          | 165     | 5825           |                 | 11.00               | 12.00   | 12.03               | 13.50   | 14.56               | 16.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ax-40   | U-NII-1  | 38      | 5190           | MCS0            | 9.90                | 11.00   | 10.16               | 11.50   | 13.04               | 14.50   |
|               |          | 46      | 5230           |                 | 10.31               | 11.50   | 10.49               | 11.50   | 13.41               | 14.50   |
|               | U-NII-2A | 54      | 5270           |                 | 10.19               | 11.50   | 10.95               | 12.00   | 13.60               | 15.00   |
|               |          | 62      | 5310           |                 | 8.68                | 10.00   | 10.11               | 11.50   | 12.46               | 13.50   |
|               | U-NII-2C | 102     | 5510           |                 | 10.00               | 11.00   | 11.55               | 13.00   | 13.85               | 15.00   |
|               |          | 110     | 5550           |                 | 11.02               | 12.50   | 12.81               | 14.00   | 15.02               | 16.50   |
|               |          | 134     | 5670           |                 | 11.71               | 13.00   | 12.63               | 14.00   | 15.20               | 16.50   |
|               | U-NII-3  | 151     | 5755           |                 | 11.31               | 12.50   | 11.99               | 13.00   | 14.67               | 16.00   |
|               |          | 159     | 5795           |                 | 12.14               | 13.50   | 13.23               | 14.50   | 15.73               | 17.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ax 80M  | U-NII-1  | 42      | 5210           | MCS0            | 10.99               | 12.00   | 11.02               | 12.50   | 14.02               | 15.50   |
|               | U-NII-2A | 58      | 5290           |                 | 9.63                | 11.00   | 10.96               | 12.00   | 13.36               | 14.50   |
|               | U-NII-2C | 106     | 5530           |                 | 8.66                | 10.00   | 10.87               | 12.00   | 12.91               | 14.00   |
|               | U-NII-2C | 122     | 5610           |                 | 9.40                | 10.50   | 11.32               | 12.50   | 13.48               | 14.50   |
|               | U-NII-3  | 155     | 5775           |                 | 10.20               | 11.50   | 11.23               | 12.50   | 13.76               | 15.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ax 160M |          | 50      | 5250           | MCS0            | 7.94                | 9.00    | 9.92                | 11.00   | 12.05               | 13.50   |
|               |          | 114     | 5570           |                 | 7.71                | 9.00    | 8.41                | 9.50    | 11.08               | 12.50   |

| WIFI 5G Hotspot |          |         |                |                 | Ant 1               |         | Ant5                |         | MIMO                |         |
|-----------------|----------|---------|----------------|-----------------|---------------------|---------|---------------------|---------|---------------------|---------|
| 5GHz            | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11a         | U-NII-1  | 36      | 5180           | 6               | 11.37               | 12.0    | 10.88               | 12.0    | /                   | /       |
|                 |          | 40      | 5200           |                 | 11.78               | 12.0    | 11.09               | 12.0    | /                   | /       |
|                 |          | 48      | 5240           |                 | 10.99               | 12.0    | 11.70               | 12.0    | /                   | /       |
|                 | U-NII-2A | 52      | 5260           |                 |                     |         |                     |         | /                   | /       |
|                 |          | 60      | 5300           |                 |                     |         |                     |         | /                   | /       |
|                 |          | 64      | 5320           |                 |                     |         |                     |         | /                   | /       |
|                 | U-NII-2C | 100     | 5500           |                 |                     |         |                     |         | /                   | /       |
|                 |          | 116     | 5580           |                 |                     |         |                     |         | /                   | /       |
|                 |          | 140     | 5700           |                 |                     |         |                     |         | /                   | /       |
|                 | U-       | 149     | 5745           |                 | 13.29               | 14.0    | 13.12               | 14.0    | /                   | /       |



|              | NII-3    | 157     | 5785           |                 | 13.22               | 14.0    | 13.08               | 14.0    | /                   | /       |
|--------------|----------|---------|----------------|-----------------|---------------------|---------|---------------------|---------|---------------------|---------|
|              |          | 165     | 5825           |                 | 13.07               | 14.0    | 13.34               | 14.0    | /                   | /       |
| 5GHz         | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11n-HT20 | U-NII-1  | 36      | 5180           | MCS0            | 10.82               | 12.0    | 11.01               | 12.0    | 13.93               | 15.0    |
|              |          | 44      | 5220           |                 | 11.03               | 12.0    | 10.99               | 12.0    | 14.02               | 15.0    |
|              |          | 48      | 5240           |                 | 10.86               | 12.0    | 10.93               | 12.0    | 13.91               | 15.0    |
|              | U-NII-2A | 52      | 5260           |                 |                     |         |                     |         |                     |         |
|              |          | 60      | 5300           |                 |                     |         |                     |         |                     |         |
|              |          | 64      | 5320           |                 |                     |         |                     |         |                     |         |
|              | U-NII-2C | 100     | 5500           |                 |                     |         |                     |         |                     |         |
|              |          | 116     | 5580           |                 |                     |         |                     |         |                     |         |
|              |          | 140     | 5700           |                 |                     |         |                     |         |                     |         |
|              | U-NII-3  | 149     | 5745           |                 | 9.49                | 10.50   | 9.73                | 11.00   | 12.62               | 14.00   |
|              |          | 157     | 5785           |                 | 9.63                | 11.00   | 9.79                | 11.00   | 12.72               | 14.00   |
|              |          | 165     | 5825           |                 | 9.61                | 11.00   | 9.57                | 11.00   | 12.60               | 14.00   |
| 5GHz         | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11n-HT40 | U-NII-1  | 38      | 5190           | MCS0            | 10.78               | 12.00   | 10.74               | 12.00   | 13.77               | 15.00   |
|              |          | 46      | 5230           |                 | 10.57               | 12.00   | 10.68               | 12.00   | 13.64               | 15.00   |
|              | U-NII-2A | 54      | 5270           |                 |                     |         |                     |         |                     |         |
|              |          | 62      | 5310           |                 |                     |         |                     |         |                     |         |
|              | U-NII-2C | 102     | 5510           |                 |                     |         |                     |         |                     |         |
|              |          | 110     | 5550           |                 |                     |         |                     |         |                     |         |
|              |          | 134     | 5670           |                 |                     |         |                     |         |                     |         |
|              | U-NII-3  | 151     | 5755           |                 | 9.49                | 11.00   | 9.49                | 11.00   | 12.50               | 14.00   |
|              |          | 159     | 5795           |                 | 9.53                | 11.00   | 9.39                | 11.00   | 12.47               | 14.00   |
| 5GHz         | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ac-20  | U-NII-1  | 36      | 5180           | MCS0            | 10.51               | 12.00   | 10.59               | 12.00   | 13.56               | 15.00   |
|              |          | 40      | 5200           |                 | 10.63               | 12.00   | 10.68               | 12.00   | 13.67               | 15.00   |
|              |          | 48      | 5240           |                 | 10.55               | 12.00   | 10.50               | 11.50   | 13.54               | 15.00   |
|              | U-NII-2A | 52      | 5260           |                 |                     |         |                     |         |                     |         |
|              |          | 60      | 5300           |                 |                     |         |                     |         |                     |         |
|              |          | 64      | 5320           |                 |                     |         |                     |         |                     |         |
|              | U-NII-2C | 100     | 5500           |                 |                     |         |                     |         |                     |         |
|              |          | 116     | 5580           |                 |                     |         |                     |         |                     |         |
|              |          | 140     | 5700           |                 |                     |         |                     |         |                     |         |
|              | U-NII-3  | 149     | 5745           |                 | 9.59                | 11.00   | 9.59                | 11.00   | 12.60               | 14.00   |
|              |          | 157     | 5785           |                 | 9.54                | 11.00   | 9.55                | 11.00   | 12.56               | 14.00   |
|              |          | 165     | 5825           |                 | 9.66                | 11.00   | 9.73                | 11.00   | 12.71               | 14.00   |
|              |          |         |                |                 |                     |         |                     |         |                     |         |
| 5GHz         | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power       | Tune up | Average Power       | Tune up | Average Power       | Tune up |

|               |          |         |                |                 | (dBm)               |         | (dBm)               |         | (dBm)               |         |
|---------------|----------|---------|----------------|-----------------|---------------------|---------|---------------------|---------|---------------------|---------|
| 802.11ac-40   | U-NII-1  | 38      | 5190           | MCS0            | 10.41               | 12.00   | 10.44               | 12.00   | 13.44               | 15.00   |
|               |          | 46      | 5230           |                 | 10.60               | 12.00   | 10.72               | 12.00   | 13.67               | 15.00   |
|               | U-NII-2A | 54      | 5270           |                 |                     |         |                     |         |                     |         |
|               |          | 62      | 5310           |                 |                     |         |                     |         |                     |         |
|               | U-NII-2C | 102     | 5510           |                 |                     |         |                     |         |                     |         |
|               |          | 110     | 5550           |                 |                     |         |                     |         |                     |         |
|               |          | 134     | 5670           |                 |                     |         |                     |         |                     |         |
|               | U-NII-3  | 151     | 5755           |                 | 9.51                | 11.00   | 9.67                | 11.00   | 12.60               | 14.00   |
|               |          | 159     | 5795           |                 | 9.53                | 11.00   | 9.48                | 11.00   | 12.52               | 14.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ac 80M  | U-NII-1  | 42      | 5210           | MCS0            | 10.50               | 12.00   | 10.57               | 12.00   | 13.55               | 15.00   |
|               | U-NII-2A | 58      | 5290           |                 |                     |         |                     |         |                     |         |
|               | U-NII-2C | 106     | 5530           |                 |                     |         |                     |         |                     |         |
|               | U-NII-2C | 122     | 5610           |                 |                     |         |                     |         |                     |         |
|               | U-NII-3  | 155     | 5775           |                 | 9.64                | 11.00   | 9.74                | 11.00   | 12.70               | 14.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ac 160M |          | 50      | 5250           | MCS0            | 7.65                | 9.00    | 9.90                | 11.00   | 11.93               | 13.00   |
|               |          | 114     | 5570           |                 |                     |         |                     |         |                     |         |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ax-20   | U-NII-1  | 36      | 5180           | MCS0            | 8.95                | 10.00   | 9.45                | 10.50   | 12.22               | 13.50   |
|               |          | 40      | 5200           |                 | 9.42                | 10.50   | 9.90                | 11.00   | 12.68               | 14.00   |
|               |          | 48      | 5240           |                 | 10.14               | 11.50   | 10.69               | 12.00   | 13.43               | 14.50   |
|               | U-NII-2A | 52      | 5260           |                 |                     |         |                     |         |                     |         |
|               |          | 60      | 5300           |                 |                     |         |                     |         |                     |         |
|               |          | 64      | 5320           |                 |                     |         |                     |         |                     |         |
|               | U-NII-2C | 100     | 5500           |                 |                     |         |                     |         |                     |         |
|               |          | 116     | 5580           |                 |                     |         |                     |         |                     |         |
|               |          | 140     | 5700           |                 |                     |         |                     |         |                     |         |
|               | U-NII-3  | 149     | 5745           |                 | 10.32               | 11.50   | 11.17               | 12.50   | 13.78               | 14.00   |
|               |          | 157     | 5785           |                 | 10.75               | 12.00   | 11.82               | 13.00   | 14.33               | 14.00   |
|               |          | 165     | 5825           |                 | 11.00               | 12.00   | 12.03               | 13.50   | 14.56               | 14.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ax-40   | U-NII-1  | 38      | 5190           | MCS0            | 9.90                | 11.00   | 10.16               | 11.50   | 13.04               | 14.50   |
|               |          | 46      | 5230           |                 | 10.31               | 11.50   | 10.49               | 11.50   | 13.41               | 14.50   |
|               | U-       | 54      | 5270           |                 |                     |         |                     |         |                     |         |

|               |          |         |                |                 |                     |         |                     |         |                     |         |
|---------------|----------|---------|----------------|-----------------|---------------------|---------|---------------------|---------|---------------------|---------|
|               | NII-2A   | 62      | 5310           |                 |                     |         |                     |         |                     |         |
|               | U-NII-2C | 102     | 5510           |                 |                     |         |                     |         |                     |         |
|               |          | 110     | 5550           |                 |                     |         |                     |         |                     |         |
|               |          | 134     | 5670           |                 |                     |         |                     |         |                     |         |
|               | U-NII-3  | 151     | 5755           |                 | 11.31               | 12.50   | 11.99               | 13.00   | 14.67               | 14.00   |
|               |          | 159     | 5795           |                 | 12.14               | 13.50   | 13.23               | 14.50   | 15.73               | 14.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ax 80M  | U-NII-1  | 42      | 5210           | MCS0            | 10.99               | 12.00   | 11.02               | 12.50   | 14.02               | 15.00   |
|               | U-NII-2A | 58      | 5290           |                 |                     |         |                     |         |                     |         |
|               | U-NII-2C | 106     | 5530           |                 |                     |         |                     |         |                     |         |
|               | U-NII-2C | 122     | 5610           |                 |                     |         |                     |         |                     |         |
|               | U-NII-3  | 155     | 5775           |                 | 10.20               | 11.50   | 11.23               | 12.50   | 13.76               | 14.00   |
| 5GHz          | mode     | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up | Average Power (dBm) | Tune up |
| 802.11ax 160M |          | 50      | 5250           | MCS0            | 7.94                | 9.00    | 9.92                | 11.00   | 12.05               | 13.50   |
|               |          | 114     | 5570           |                 |                     |         |                     |         |                     |         |

| WIFI 6E          |         |                |                 | ANT1                |         | ANT5 |         | MIMO |         |
|------------------|---------|----------------|-----------------|---------------------|---------|------|---------|------|---------|
| mode             | Channel | Frequency(MHz) | Data Rate(Mbps) | Average Power (dBm) | Tune up | ANT2 | Tune up | MIMO | Tune up |
| 802.11ax (HE20)  | 3       | 5955           | MCS0            | 3.8                 | 5.0     | 2.28 | 3.5     | 6.12 | 7.5     |
|                  | 99      | 6435           |                 | 2.91                | 4.0     | 3.86 | 5.0     | 6.42 | 7.5     |
|                  | 147     | 6535           |                 | 3.44                | 4.5     | 4.68 | 6.0     | 7.11 | 8.5     |
|                  | 195     | 6895           |                 | 2.45                | 3.5     | 1.54 | 3.0     | 5.03 | 6.5     |
|                  | 233     | 7115           |                 | 3.63                | 5.0     | 4.27 | 5.5     | 6.97 | 8.0     |
|                  | 185     | 6875           |                 | 4.73                | 6.0     | 3    | 4.0     | 6.96 | 8.0     |
| 802.11ax (HE40)  | 3       | 5965           | MCS0            | 4.48                | 5.5     | 3.03 | 4.5     | 6.83 | 8.0     |
|                  | 99      | 6445           |                 | 2.52                | 4.0     | 4.44 | 5.5     | 6.60 | 8.0     |
|                  | 147     | 6685           |                 | 5.22                | 6.5     | 6.62 | 8.0     | 8.99 | 10.0    |
|                  | 195     | 6925           |                 | 4.4                 | 5.5     | 6.22 | 7.5     | 8.41 | 9.5     |
|                  | 227     | 7085           |                 | 4.3                 | 5.5     | 4.63 | 6.0     | 7.48 | 8.5     |
|                  | 115     | 6525           |                 | 4.81                | 6.0     | 5.79 | 7.0     | 8.34 | 9.5     |
| 802.11ax (HE80)  | 187     | 6885           | MCS0            | 6.03                | 7.5     | 4.16 | 5.5     | 8.21 | 9.5     |
|                  | 7       | 5985           |                 | 3.83                | 5.0     | 3.23 | 4.5     | 6.55 | 8.0     |
|                  | 103     | 6465           |                 | 3.09                | 4.5     | 4.39 | 5.5     | 6.80 | 8.0     |
|                  | 151     | 6705           |                 | 3.62                | 5.0     | 5.76 | 7.0     | 7.83 | 9.0     |
|                  | 199     | 6945           |                 | 2.89                | 4.0     | 4.79 | 6.0     | 6.95 | 8.0     |
|                  | 215     | 7025           |                 | 2.61                | 4.0     | 3.94 | 5.0     | 6.34 | 7.5     |
| 802.11ax (HE160) | 119     | 6545           | MCS0            | 3.81                | 5.0     | 5.14 | 6.5     | 7.54 | 9.0     |
|                  | 183     | 6865           |                 | 4.93                | 6.0     | 3.44 | 4.5     | 7.26 | 8.5     |
|                  | 15      | 6025           |                 | 1.63                | 3.0     | 1.31 | 2.5     | 4.48 | 5.5     |
|                  | 47      | 6185           |                 | 1.21                | 2.5     | 0.99 | 2.0     | 4.11 | 5.5     |
|                  | 99      | 6345           |                 | 1.49                | 2.5     | 1.77 | 3.0     | 4.64 | 6.0     |
|                  | 143     | 6665           |                 | 1.42                | 2.5     | 1.91 | 3.0     | 4.68 | 6.0     |

|  |     |      |  |      |     |      |     |      |     |
|--|-----|------|--|------|-----|------|-----|------|-----|
|  | 207 | 6985 |  | 0.58 | 2.0 | 2.68 | 4.0 | 4.77 | 6.0 |
|  | 111 | 6505 |  | 1.95 | 3.0 | 2.93 | 4.0 | 5.48 | 6.5 |
|  | 175 | 6825 |  | 2.17 | 3.5 | 3.05 | 4.5 | 5.64 | 7.0 |

## 7. Conducted Power of Bluetooth

| BT ANT1       |         |                | Average Conducted Power (dBm) | Tune up (dBm) |
|---------------|---------|----------------|-------------------------------|---------------|
| Modulation    | Channel | Frequency(MHz) |                               |               |
| GFSK          | 0       | 2402           | 12.79                         | 14.00         |
|               | 39      | 2441           | 13.94                         | 15.00         |
|               | 78      | 2480           | 12.90                         | 14.00         |
| $\pi$ /4DQPSK | 0       | 2402           | 11.97                         | 13.00         |
|               | 39      | 2441           | 13.21                         | 14.50         |
|               | 78      | 2480           | 12.07                         | 13.50         |
| 8DPSK         | 0       | 2402           | 11.98                         | 13.00         |
|               | 39      | 2441           | 13.23                         | 14.50         |
|               | 78      | 2480           | 12.11                         | 13.50         |
| BLE_1Mbps     |         |                | Average Conducted Power (dBm) | Tune up (dBm) |
| Modulation    | Channel | Frequency(MHz) |                               |               |
| GFSK          | 0       | 2402           | 4.52                          | 6.00          |
|               | 19      | 2440           | 5.94                          | 7.00          |
|               | 39      | 2480           | 4.71                          | 6.00          |
| BLE_2Mbps     |         |                | Average Conducted Power (dBm) | Tune up (dBm) |
| Modulation    | Channel | Frequency(MHz) |                               |               |
| GFSK          | 0       | 2402           | 4.58                          | 6.00          |
|               | 19      | 2440           | 6.05                          | 7.50          |
|               | 39      | 2480           | 4.81                          | 6.00          |

| BT ANT5       |         |                | Average Conducted Power (dBm) | Tune up (dBm) |
|---------------|---------|----------------|-------------------------------|---------------|
| Modulation    | Channel | Frequency(MHz) |                               |               |
| GFSK          | 0       | 2402           | 12.48                         | 13.50         |
|               | 39      | 2441           | 13.63                         | 15.00         |
|               | 78      | 2480           | 12.38                         | 13.50         |
| $\pi$ /4DQPSK | 0       | 2402           | 11.62                         | 13.00         |
|               | 39      | 2441           | 12.79                         | 14.00         |
|               | 78      | 2480           | 11.46                         | 12.50         |
| 8DPSK         | 0       | 2402           | 11.83                         | 13.00         |



|            |         |                |                               |               |
|------------|---------|----------------|-------------------------------|---------------|
|            | 39      | 2441           | 12.99                         | 14.00         |
|            | 78      | 2480           | 11.69                         | 13.00         |
| BLE_1Mbps  |         |                | Average Conducted Power (dBm) | Tune up (dBm) |
| Modulation | Channel | Frequency(MHz) |                               |               |
| GFSK       | 0       | 2402           | 4.51                          | 6.00          |
|            | 19      | 2440           | 5.75                          | 7.00          |
|            | 39      | 2480           | 4.49                          | 5.50          |
| BLE_2Mbps  |         |                | Average Conducted Power (dBm) | Tune up (dBm) |
| Modulation | Channel | Frequency(MHz) |                               |               |
| GFSK       | 0       | 2402           | 4.60                          | 6.00          |
|            | 19      | 2440           | 5.86                          | 7.00          |
|            | 39      | 2480           | 4.64                          | 6.00          |