

# Appendix E

## Conducted RF Output Power

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|--|
| Measurement of RF conducted Power        |
| 1 Conducted Power of Main Antenna (Ant0) |
| 1.1 Conducted Power of GSM               |
| 1.2 Conducted Power of WCDMA             |
| 1.3 Conducted Power of LTE               |
| 2 Conducted Power of Main Antenna (Ant1) |
| 2.1 Conducted Power of GSM               |
| 2.2 Conducted Power of WCDMA             |
| 2.3 Conducted Power of LTE               |
| 3 Conducted Power of Main Antenna (Ant2) |
| 3.1 Conducted Power of GSM               |
| 3.2 Conducted Power of WCDMA             |
| 3.3 Conducted Power of LTE               |
| 4 Conducted Power of Main Antenna (Ant4) |
| 4.1 Conducted Power of LTE               |
| 5 Conducted Power of Main Antenna (Ant7) |
| 5.1 Conducted Power of LTE               |
| 6 Conducted Power of Main Antenna (Ant8) |
| 6.1 Conducted Power of LTE               |
| 7 Conducted Power of Main Antenna (Ant9) |
| 7.1 Conducted Power of GSM               |
| 7.2 Conducted Power of WCDMA             |



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|   |
|---|
| 7.3 Conducted Power of LTE                    |
| 8 Conducted Power of Main Antenna (Ant10)     |
| 8.1 Conducted Power of LTE                    |
| 9 Conducted Power of Uplink CA                |
| 9.1 Conducted Power of LTE Uplink CA (Ant0)   |
| 9.2 Conducted Power of LTE Uplink CA (Ant1)   |
| 9.3 Conducted Power of LTE Uplink CA (Ant2)   |
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| 11.1 Conducted Power of NR SA Antenna (Ant0)  |
| 11.2 Conducted Power of NR SA Antenna (Ant1)  |
| 11.3 Conducted Power of NR SA Antenna (Ant2)  |
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| 11.5 Conducted Power of NR SA Antenna (Ant7)  |
| 11.6 Conducted Power of NR SA Antenna (Ant8)  |
| 11.7 Conducted Power of NR SA Antenna (Ant9)  |
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| 12 Conducted Power of WiFi and Bluetooth      |
| 12.1 Conducted Power of 2.4GWiFi              |
| 12.2 Conducted Power of 5GWiFi                |
| 12.3 Conducted Power of WiFi6E                |
| 12.4 Conducted Power of Bluetooth             |



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SZSAR-TRF-01-A05 Rev. A/0 Aug 16,2024

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Note:

| ECI   | Trigger Conditions              | Antenna No.  |
|-------|---------------------------------|--------------|
| ECI 2 | Receiver on                     | All WWAN Ant |
| ECI 3 | Body worn                       | All WWAN Ant |
| ECI 4 | Body worn Sensor off            | All WWAN Ant |
|       | Product specific 0mm Sensor off |              |
| ECI 6 | Product specific 0mm            | All WWAN Ant |
| ECI 7 | Hotspot                         | All WWAN Ant |



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**Measurement of RF conducted Power**  
**1 Conducted Power of Main Antenna (Ant0)**  
**1.1 Conducted Power of GSM**

| GSM 850 Eci2/3/4/7/6 |            |                         |       |       |         |                  |                                 |       |       |         |
|----------------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|                      |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel              |            | 128                     | 190   | 251   | Tune up |                  | 128                             | 190   | 251   | Tune up |
| GSM(GMSK)            | GSM        | 31.63                   | 31.82 | 31.89 | 33.00   | -9.19            | 22.44                           | 22.63 | 22.70 | 23.81   |
| GPRS (GMSK)          | 1 TX Slot  | 31.69                   | 31.84 | 31.79 | 33.00   | -9.19            | 22.50                           | 22.65 | 22.60 | 23.81   |
|                      | 2 TX Slots | 28.65                   | 28.88 | 28.88 | 30.00   | -6.18            | 22.47                           | 22.70 | 22.70 | 23.82   |
|                      | 3 TX Slots | 27.00                   | 27.17 | 27.16 | 28.00   | -4.42            | 22.58                           | 22.75 | 22.74 | 23.58   |
|                      | 4 TX Slots | 25.63                   | 25.98 | 25.94 | 27.00   | -3.17            | 22.46                           | 22.81 | 22.77 | 23.83   |
| EGPRS (GMSK)         | 1 TX Slot  | 31.67                   | 31.78 | 31.76 | 33.00   | -9.19            | 22.48                           | 22.59 | 22.57 | 23.81   |
|                      | 2 TX Slots | 28.57                   | 28.83 | 28.89 | 30.00   | -6.18            | 22.39                           | 22.65 | 22.71 | 23.82   |
|                      | 3 TX Slots | 27.03                   | 27.07 | 27.15 | 28.00   | -4.42            | 22.61                           | 22.65 | 22.73 | 23.58   |
|                      | 4 TX Slots | 25.66                   | 25.83 | 26.04 | 27.00   | -3.17            | 22.49                           | 22.66 | 22.87 | 23.83   |
| EGPRS (8PSK)         | 1 TX Slot  | 26.32                   | 26.44 | 26.43 | 27.00   | -9.19            | 17.13                           | 17.25 | 17.24 | 17.81   |
|                      | 2 TX Slots | 25.13                   | 25.31 | 25.25 | 26.00   | -6.18            | 18.95                           | 19.13 | 19.07 | 19.82   |
|                      | 3 TX Slots | 22.70                   | 22.83 | 22.89 | 24.00   | -4.42            | 18.28                           | 18.41 | 18.47 | 19.58   |
|                      | 4 TX Slots | 21.55                   | 21.68 | 21.75 | 22.50   | -3.17            | 18.38                           | 18.51 | 18.58 | 19.33   |

| GSM 1900 Eci2/4/6 |            |                         |       |       |         |                  |                                 |       |       |         |
|-------------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|                   |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel           |            | 512                     | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)         | GSM        | 27.88                   | 27.96 | 27.94 | 29.00   | -9.19            | 18.69                           | 18.77 | 18.75 | 19.81   |
| GPRS (GMSK)       | 1 TX Slot  | 28.02                   | 27.98 | 27.92 | 29.00   | -9.19            | 18.83                           | 18.79 | 18.73 | 19.81   |
|                   | 2 TX Slots | 25.03                   | 24.97 | 24.88 | 26.00   | -6.18            | 18.85                           | 18.79 | 18.70 | 19.82   |
|                   | 3 TX Slots | 23.18                   | 23.23 | 23.27 | 24.00   | -4.42            | 18.76                           | 18.81 | 18.85 | 19.58   |
|                   | 4 TX Slots | 22.03                   | 22.08 | 22.02 | 23.00   | -3.17            | 18.86                           | 18.91 | 18.85 | 19.83   |
| EGPRS (GMSK)      | 1 TX Slot  | 28.05                   | 28.06 | 27.95 | 29.00   | -9.19            | 18.86                           | 18.87 | 18.76 | 19.81   |
|                   | 2 TX Slots | 24.97                   | 24.97 | 24.79 | 26.00   | -6.18            | 18.79                           | 18.79 | 18.61 | 19.82   |
|                   | 3 TX Slots | 23.25                   | 23.33 | 23.19 | 24.00   | -4.42            | 18.83                           | 18.91 | 18.77 | 19.58   |
|                   | 4 TX Slots | 22.04                   | 22.08 | 21.94 | 23.00   | -3.17            | 18.87                           | 18.91 | 18.77 | 19.83   |
| EGPRS (8PSK)      | 1 TX Slot  | 24.15                   | 24.12 | 24.12 | 25.00   | -9.19            | 14.96                           | 14.93 | 14.93 | 15.81   |
|                   | 2 TX Slots | 22.70                   | 22.69 | 22.66 | 23.50   | -6.18            | 16.52                           | 16.51 | 16.48 | 17.32   |
|                   | 3 TX Slots | 20.17                   | 20.26 | 20.24 | 21.50   | -4.42            | 15.75                           | 15.84 | 15.82 | 17.08   |
|                   | 4 TX Slots | 18.63                   | 18.69 | 18.79 | 19.50   | -3.17            | 15.46                           | 15.52 | 15.62 | 16.33   |



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| GSM 1900 Eci3/7 |            |                         |       |       |         |                  |                                 |       |       |         |
|-----------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|                 |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel         |            | 512                     | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)       | GSM        | 26.83                   | 26.91 | 26.90 | 28.00   | -9.19            | 17.64                           | 17.72 | 17.71 | 18.81   |
| GPRS (GMSK)     | 1 TX Slot  | 26.83                   | 26.88 | 26.87 | 28.00   | -9.19            | 17.64                           | 17.69 | 17.68 | 18.81   |
|                 | 2 TX Slots | 23.82                   | 23.91 | 23.93 | 25.00   | -6.18            | 17.64                           | 17.73 | 17.75 | 18.82   |
|                 | 3 TX Slots | 22.08                   | 22.17 | 22.18 | 23.00   | -4.42            | 17.66                           | 17.75 | 17.76 | 18.58   |
|                 | 4 TX Slots | 20.93                   | 20.94 | 20.94 | 22.00   | -3.17            | 17.76                           | 17.77 | 17.77 | 18.83   |
| EGPRS (GMSK)    | 1 TX Slot  | 26.80                   | 26.85 | 26.80 | 28.00   | -9.19            | 17.61                           | 17.66 | 17.61 | 18.81   |
|                 | 2 TX Slots | 23.80                   | 23.88 | 23.89 | 25.00   | -6.18            | 17.62                           | 17.70 | 17.71 | 18.82   |
|                 | 3 TX Slots | 22.07                   | 22.14 | 22.15 | 23.00   | -4.42            | 17.65                           | 17.72 | 17.73 | 18.58   |
|                 | 4 TX Slots | 20.81                   | 20.91 | 20.92 | 22.00   | -3.17            | 17.64                           | 17.74 | 17.75 | 18.83   |
| EGPRS (8PSK)    | 1 TX Slot  | 23.81                   | 23.86 | 23.83 | 24.00   | -9.19            | 14.62                           | 14.67 | 14.64 | 14.81   |
|                 | 2 TX Slots | 20.81                   | 20.90 | 20.91 | 22.50   | -6.18            | 14.63                           | 14.72 | 14.73 | 16.32   |
|                 | 3 TX Slots | 19.08                   | 19.16 | 19.17 | 20.50   | -4.42            | 14.66                           | 14.74 | 14.75 | 16.08   |
|                 | 4 TX Slots | 17.82                   | 17.93 | 17.94 | 18.50   | -3.17            | 14.65                           | 14.76 | 14.77 | 15.33   |



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**1.2 Conducted Power of WCDMA**

| WCDMA Band II Eci2/4         |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.43 | 21.55 | 21.52 | 22.50   |
|                              | 12.2kbps AMR | 21.22 | 21.35 | 21.42 | 22.50   |
| HSDPA                        | Subtest 1    | 20.39 | 20.49 | 20.58 | 21.50   |
|                              | Subtest 2    | 20.43 | 20.51 | 20.60 | 21.50   |
|                              | Subtest 3    | 19.96 | 20.07 | 20.16 | 21.00   |
|                              | Subtest 4    | 19.94 | 20.02 | 20.12 | 21.00   |
| HSUPA                        | Subtest 1    | 18.46 | 18.53 | 18.61 | 19.50   |
|                              | Subtest 2    | 18.43 | 18.54 | 18.61 | 19.50   |
|                              | Subtest 3    | 19.49 | 19.56 | 19.64 | 20.50   |
|                              | Subtest 4    | 17.95 | 18.04 | 18.16 | 19.00   |
|                              | Subtest 5    | 19.44 | 19.54 | 19.62 | 20.50   |
| DC-HSDPA                     | Subtest 1    | 20.42 | 20.41 | 20.58 | 21.50   |
|                              | Subtest 2    | 20.52 | 20.49 | 20.52 | 21.50   |
|                              | Subtest 3    | 19.88 | 20.09 | 20.18 | 21.00   |
|                              | Subtest 4    | 19.98 | 19.99 | 20.03 | 21.00   |
| HSPA+                        | 16QAM        | 18.14 | 17.93 | 18.10 | 19.50   |

| WCDMA Band II Eci3/7         |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 15.69 | 15.74 | 15.71 | 16.50   |
|                              | 12.2kbps AMR | 15.65 | 15.71 | 15.70 | 16.50   |
| HSDPA                        | Subtest 1    | 14.30 | 14.43 | 14.52 | 15.50   |
|                              | Subtest 2    | 14.46 | 14.52 | 14.56 | 15.50   |
|                              | Subtest 3    | 13.97 | 13.97 | 14.19 | 15.00   |
|                              | Subtest 4    | 13.84 | 14.08 | 14.02 | 15.00   |
| HSUPA                        | Subtest 1    | 12.46 | 12.53 | 12.60 | 13.50   |
|                              | Subtest 2    | 12.49 | 12.45 | 12.64 | 13.50   |
|                              | Subtest 3    | 13.40 | 13.59 | 13.57 | 14.50   |
|                              | Subtest 4    | 11.96 | 12.03 | 12.18 | 13.00   |
|                              | Subtest 5    | 13.42 | 13.49 | 13.62 | 14.50   |
| DC-HSDPA                     | Subtest 1    | 14.49 | 14.31 | 14.54 | 15.50   |
|                              | Subtest 2    | 14.50 | 14.50 | 14.45 | 15.50   |
|                              | Subtest 3    | 13.95 | 14.10 | 14.24 | 15.00   |
|                              | Subtest 4    | 14.07 | 13.96 | 14.06 | 15.00   |
| HSPA+                        | 16QAM        | 12.21 | 11.96 | 12.03 | 13.50   |



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| WCDMA Band II Eci6           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 20.67 | 20.75 | 20.74 | 21.50   |
|                              | 12.2kbps AMR | 20.66 | 20.77 | 20.82 | 21.50   |
| HSDPA                        | Subtest 1    | 19.48 | 19.45 | 19.54 | 20.50   |
|                              | Subtest 2    | 19.51 | 19.59 | 19.54 | 20.50   |
|                              | Subtest 3    | 18.88 | 18.99 | 19.15 | 20.00   |
|                              | Subtest 4    | 19.04 | 19.09 | 19.13 | 20.00   |
| HSUPA                        | Subtest 1    | 17.48 | 17.49 | 17.54 | 18.50   |
|                              | Subtest 2    | 17.39 | 17.49 | 17.61 | 18.50   |
|                              | Subtest 3    | 18.48 | 18.63 | 18.69 | 19.50   |
|                              | Subtest 4    | 17.01 | 17.10 | 17.09 | 18.00   |
|                              | Subtest 5    | 18.47 | 18.60 | 18.65 | 19.50   |
| DC-HSDPA                     | Subtest 1    | 19.47 | 19.40 | 19.54 | 20.50   |
|                              | Subtest 2    | 19.62 | 19.46 | 19.51 | 20.50   |
|                              | Subtest 3    | 18.79 | 19.02 | 19.23 | 20.00   |
|                              | Subtest 4    | 19.01 | 19.08 | 19.00 | 20.00   |
| HSPA+                        | 16QAM        | 17.19 | 16.98 | 17.03 | 18.50   |

| WCDMA Band IV Eci2/4         |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.35 | 21.18 | 21.26 | 22.50   |
|                              | 12.2kbps AMR | 21.22 | 21.15 | 21.21 | 22.50   |
| HSDPA                        | Subtest 1    | 20.40 | 20.26 | 20.26 | 21.50   |
|                              | Subtest 2    | 20.45 | 20.30 | 20.27 | 21.50   |
|                              | Subtest 3    | 19.97 | 19.84 | 19.82 | 20.00   |
|                              | Subtest 4    | 19.96 | 19.83 | 19.80 | 20.00   |
| HSUPA                        | Subtest 1    | 18.43 | 18.26 | 18.78 | 19.50   |
|                              | Subtest 2    | 18.41 | 18.26 | 18.29 | 19.50   |
|                              | Subtest 3    | 19.45 | 19.27 | 19.31 | 20.50   |
|                              | Subtest 4    | 17.92 | 17.80 | 17.82 | 19.00   |
|                              | Subtest 5    | 19.42 | 19.27 | 19.29 | 20.50   |
| DC-HSDPA                     | Subtest 1    | 20.43 | 20.16 | 20.17 | 21.50   |
|                              | Subtest 2    | 20.54 | 20.35 | 20.24 | 21.50   |
|                              | Subtest 3    | 19.88 | 19.85 | 19.74 | 20.00   |
|                              | Subtest 4    | 19.97 | 19.73 | 19.84 | 20.00   |
| HSPA+                        | 16QAM        | 18.02 | 18.09 | 18.17 | 19.50   |



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| WCDMA Band IV Eci3/7         |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 18.59 | 18.36 | 18.49 | 19.50   |
|                              | 12.2kbps AMR | 18.67 | 18.45 | 18.52 | 19.50   |
| HSDPA                        | Subtest 1    | 17.37 | 17.18 | 17.16 | 18.50   |
|                              | Subtest 2    | 17.46 | 17.34 | 17.23 | 18.50   |
|                              | Subtest 3    | 16.91 | 16.77 | 16.86 | 17.00   |
|                              | Subtest 4    | 16.90 | 16.89 | 16.72 | 17.00   |
| HSUPA                        | Subtest 1    | 15.45 | 15.22 | 15.75 | 16.50   |
|                              | Subtest 2    | 15.51 | 15.21 | 15.32 | 16.50   |
|                              | Subtest 3    | 16.47 | 16.21 | 16.27 | 17.50   |
|                              | Subtest 4    | 14.93 | 14.73 | 14.85 | 16.00   |
|                              | Subtest 5    | 16.52 | 16.31 | 16.38 | 17.50   |
| DC-HSDPA                     | Subtest 1    | 17.39 | 17.26 | 17.21 | 18.50   |
|                              | Subtest 2    | 17.51 | 17.43 | 17.14 | 18.50   |
|                              | Subtest 3    | 16.91 | 16.80 | 16.68 | 17.00   |
|                              | Subtest 4    | 16.91 | 16.79 | 16.86 | 17.00   |
| HSPA+                        | 16QAM        | 15.08 | 15.12 | 15.14 | 16.50   |

| WCDMA Band IV Eci6           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 20.65 | 20.43 | 20.39 | 21.50   |
|                              | 12.2kbps AMR | 20.63 | 20.42 | 20.48 | 21.50   |
| HSDPA                        | Subtest 1    | 19.37 | 19.32 | 19.31 | 20.50   |
|                              | Subtest 2    | 19.47 | 19.26 | 19.36 | 20.50   |
|                              | Subtest 3    | 18.99 | 18.82 | 18.91 | 19.00   |
|                              | Subtest 4    | 18.96 | 18.87 | 18.77 | 19.00   |
| HSUPA                        | Subtest 1    | 17.45 | 17.33 | 17.85 | 18.50   |
|                              | Subtest 2    | 17.50 | 17.18 | 17.36 | 18.50   |
|                              | Subtest 3    | 18.50 | 18.30 | 18.36 | 19.50   |
|                              | Subtest 4    | 16.88 | 16.80 | 16.92 | 18.00   |
|                              | Subtest 5    | 18.37 | 18.34 | 18.39 | 19.50   |
| DC-HSDPA                     | Subtest 1    | 19.52 | 19.10 | 19.10 | 20.50   |
|                              | Subtest 2    | 19.60 | 19.31 | 19.14 | 20.50   |
|                              | Subtest 3    | 18.97 | 18.90 | 18.67 | 19.00   |
|                              | Subtest 4    | 18.94 | 18.82 | 18.90 | 19.00   |
| HSPA+                        | 16QAM        | 17.08 | 17.03 | 17.20 | 18.50   |



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| WCDMA Band V Eci2/4/6        |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 23.07 | 22.78 | 22.79 | 24.00   |
|                              | 12.2kbps AMR | 22.92 | 22.75 | 22.74 | 24.00   |
| HSDPA                        | Subtest 1    | 21.92 | 21.90 | 21.76 | 23.00   |
|                              | Subtest 2    | 21.94 | 21.91 | 21.79 | 23.00   |
|                              | Subtest 3    | 21.47 | 21.44 | 21.31 | 22.50   |
|                              | Subtest 4    | 21.46 | 21.42 | 21.29 | 22.50   |
| HSUPA                        | Subtest 1    | 20.45 | 19.93 | 20.25 | 21.00   |
|                              | Subtest 2    | 19.94 | 19.90 | 19.74 | 21.00   |
|                              | Subtest 3    | 20.97 | 20.94 | 20.77 | 22.00   |
|                              | Subtest 4    | 19.45 | 19.45 | 19.28 | 20.50   |
|                              | Subtest 5    | 20.94 | 20.90 | 20.72 | 22.00   |
| DC-HSDPA                     | Subtest 1    | 21.89 | 21.93 | 21.79 | 23.00   |
|                              | Subtest 2    | 21.89 | 21.99 | 21.84 | 23.00   |
|                              | Subtest 3    | 21.42 | 21.34 | 21.26 | 22.50   |
|                              | Subtest 4    | 21.56 | 21.48 | 21.36 | 22.50   |
| HSPA+                        | 16QAM        | 19.66 | 19.61 | 19.58 | 20.50   |

| WCDMA Band V Eci3/7          |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.98 | 21.92 | 21.86 | 23.00   |
|                              | 12.2kbps AMR | 21.94 | 21.91 | 21.81 | 23.00   |
| HSDPA                        | Subtest 1    | 20.82 | 21.20 | 20.46 | 22.00   |
|                              | Subtest 2    | 20.84 | 20.91 | 20.99 | 22.00   |
|                              | Subtest 3    | 20.37 | 20.14 | 20.31 | 21.50   |
|                              | Subtest 4    | 20.66 | 20.52 | 20.49 | 21.50   |
| HSUPA                        | Subtest 1    | 19.65 | 18.83 | 19.05 | 20.00   |
|                              | Subtest 2    | 19.04 | 19.00 | 18.44 | 20.00   |
|                              | Subtest 3    | 20.27 | 19.94 | 19.57 | 21.00   |
|                              | Subtest 4    | 18.15 | 18.55 | 18.18 | 19.50   |
|                              | Subtest 5    | 19.64 | 20.10 | 19.72 | 21.00   |
| DC-HSDPA                     | Subtest 1    | 20.99 | 20.83 | 20.79 | 22.00   |
|                              | Subtest 2    | 21.09 | 20.79 | 20.84 | 22.00   |
|                              | Subtest 3    | 20.72 | 20.64 | 20.16 | 21.50   |
|                              | Subtest 4    | 20.86 | 20.78 | 20.66 | 21.50   |
| HSPA+                        | 16QAM        | 18.76 | 18.91 | 18.88 | 19.50   |



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**1.3 Conducted Power of LTE**

| LTE Band 2 Eci2/4 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz            | QPSK       | 1       | 0         | 21.54                | 21.20   | 21.25   | 22.50   |
|                   |            | 1       | 2         | 21.27                | 21.12   | 21.09   | 22.50   |
|                   |            | 1       | 5         | 21.34                | 21.07   | 21.46   | 22.50   |
|                   |            | 3       | 0         | 21.61                | 21.11   | 21.12   | 22.50   |
|                   |            | 3       | 2         | 21.35                | 21.42   | 21.27   | 22.50   |
|                   |            | 3       | 3         | 21.43                | 21.60   | 21.28   | 22.50   |
|                   |            | 6       | 0         | 20.29                | 20.05   | 20.14   | 21.50   |
|                   | 16QAM      | 1       | 0         | 20.64                | 20.19   | 20.64   | 21.50   |
|                   |            | 1       | 2         | 20.23                | 20.32   | 20.28   | 21.50   |
|                   |            | 1       | 5         | 20.40                | 20.19   | 20.47   | 21.50   |
|                   |            | 3       | 0         | 20.53                | 20.22   | 20.33   | 21.50   |
|                   |            | 3       | 2         | 20.38                | 20.32   | 20.39   | 21.50   |
|                   |            | 3       | 3         | 20.38                | 20.32   | 20.33   | 21.50   |
|                   |            | 6       | 0         | 19.13                | 19.09   | 19.03   | 20.50   |
|                   | 64QAM      | 1       | 0         | 19.23                | 18.90   | 19.04   | 20.50   |
|                   |            | 1       | 2         | 19.31                | 18.96   | 19.13   | 20.50   |
|                   |            | 1       | 5         | 18.88                | 19.44   | 19.02   | 20.50   |
|                   |            | 3       | 0         | 18.81                | 18.55   | 18.73   | 20.50   |
|                   |            | 3       | 2         | 18.68                | 18.94   | 18.80   | 20.50   |
|                   |            | 3       | 3         | 18.95                | 18.63   | 18.95   | 20.50   |
|                   |            | 6       | 0         | 18.13                | 18.30   | 18.31   | 19.50   |
|                   | 256QAM     | 1       | 0         | 16.31                | 16.23   | 16.06   | 17.50   |
|                   |            | 1       | 2         | 15.99                | 16.31   | 16.27   | 17.50   |
|                   |            | 1       | 5         | 16.04                | 16.01   | 16.31   | 17.50   |
| 3                 |            | 0       | 16.18     | 16.09                | 16.15   | 17.50   |         |
| 3                 |            | 2       | 16.15     | 16.10                | 15.87   | 17.50   |         |
| 3                 |            | 3       | 16.12     | 15.99                | 16.04   | 17.50   |         |
| 6                 |            | 0       | 16.14     | 16.22                | 16.20   | 17.50   |         |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz              | QPSK       | 1       | 0         | 21.58                | 21.10   | 21.22   | 22.50   |
|                   |            | 1       | 7         | 21.24                | 21.00   | 21.18   | 22.50   |
|                   |            | 1       | 14        | 21.59                | 21.10   | 21.43   | 22.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 0         | 20.22   | 20.22   | 19.95   | 21.50   |
|           |            | 8       | 4         | 20.43   | 20.33   | 20.42   | 21.50   |
|           |            | 8       | 7         | 20.45   | 20.40   | 20.32   | 21.50   |
|           |            | 15      | 0         | 20.51   | 20.22   | 20.31   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.74   | 20.47   | 20.45   | 21.50   |
|           |            | 1       | 7         | 20.37   | 20.26   | 20.16   | 21.50   |
|           |            | 1       | 14        | 20.43   | 20.21   | 20.24   | 21.50   |
|           |            | 8       | 0         | 19.28   | 19.12   | 19.08   | 20.50   |
|           |            | 8       | 4         | 19.33   | 19.05   | 18.71   | 20.50   |
|           |            | 8       | 7         | 19.30   | 19.27   | 19.21   | 20.50   |
|           | 64QAM      | 15      | 0         | 18.89   | 18.92   | 18.96   | 20.50   |
|           |            | 1       | 0         | 19.04   | 19.09   | 18.96   | 20.50   |
|           |            | 1       | 7         | 19.15   | 18.93   | 19.20   | 20.50   |
|           |            | 1       | 14        | 19.08   | 19.38   | 18.91   | 20.50   |
|           |            | 8       | 0         | 18.04   | 18.05   | 18.16   | 19.50   |
|           |            | 8       | 4         | 18.09   | 18.30   | 18.09   | 19.50   |
|           |            | 8       | 7         | 18.32   | 18.16   | 18.44   | 19.50   |
|           | 256QAM     | 15      | 0         | 18.09   | 18.42   | 18.20   | 19.50   |
|           |            | 1       | 0         | 16.19   | 16.10   | 16.30   | 17.50   |
|           |            | 1       | 7         | 16.15   | 16.32   | 16.16   | 17.50   |
|           |            | 1       | 14        | 16.04   | 16.17   | 16.10   | 17.50   |
| 8         |            | 0       | 15.97     | 16.20   | 16.07   | 17.50   |         |
| 8         |            | 4       | 16.15     | 16.19   | 15.98   | 17.50   |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 21.62   | 21.02   | 21.48   | 22.50   |
|           |            | 1       | 13        | 21.10   | 21.22   | 21.19   | 22.50   |
|           |            | 1       | 24        | 21.36   | 21.18   | 21.41   | 22.50   |
|           |            | 12      | 0         | 20.48   | 20.19   | 20.19   | 21.50   |
|           |            | 12      | 6         | 20.27   | 20.25   | 20.27   | 21.50   |
|           |            | 12      | 13        | 20.49   | 20.40   | 20.26   | 21.50   |
|           |            | 25      | 0         | 20.46   | 20.04   | 20.36   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.82   | 20.28   | 20.60   | 21.50   |
|           |            | 1       | 13        | 20.23   | 20.35   | 20.34   | 21.50   |
|           |            | 1       | 24        | 20.47   | 20.39   | 20.34   | 21.50   |
|           |            | 12      | 0         | 19.46   | 18.99   | 18.95   | 20.50   |
|           |            | 12      | 6         | 19.39   | 19.00   | 18.92   | 20.50   |



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|           |            | 12      | 13        | 19.29   | 19.08   | 19.23   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 19.12   | 18.95   | 19.19   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.06   | 19.20   | 19.11   | 20.50   |
|           |            | 1       | 13        | 19.30   | 18.94   | 19.00   | 20.50   |
|           |            | 1       | 24        | 19.07   | 19.37   | 18.93   | 20.50   |
|           |            | 12      | 0         | 17.99   | 17.90   | 18.15   | 19.50   |
|           |            | 12      | 6         | 18.15   | 18.12   | 18.18   | 19.50   |
|           |            | 12      | 13        | 18.36   | 17.95   | 18.52   | 19.50   |
|           |            | 25      | 0         | 18.24   | 18.39   | 18.21   | 19.50   |
|           |            | 256QAM  | 1         | 0       | 16.18   | 16.35   | 16.13   |
|           | 1          |         | 13        | 15.96   | 16.16   | 16.07   | 17.50   |
|           | 1          |         | 24        | 16.14   | 16.29   | 16.22   | 17.50   |
|           | 12         |         | 0         | 16.00   | 15.99   | 15.98   | 17.50   |
|           | 12         |         | 6         | 16.38   | 16.21   | 15.87   | 17.50   |
|           | 12         |         | 13        | 16.34   | 15.94   | 15.88   | 17.50   |
|           | 25         |         | 0         | 16.14   | 16.28   | 16.31   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.52   | 21.16   | 21.48   | 22.50   |
|           |            | 1       | 25        | 21.29   | 21.00   | 21.04   | 22.50   |
|           |            | 1       | 49        | 21.42   | 21.28   | 21.34   | 22.50   |
|           |            | 25      | 0         | 20.52   | 20.00   | 20.01   | 21.50   |
|           |            | 25      | 13        | 20.24   | 20.29   | 20.37   | 21.50   |
|           |            | 25      | 25        | 20.51   | 20.24   | 20.20   | 21.50   |
|           |            | 50      | 0         | 20.42   | 20.19   | 20.36   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.65   | 20.22   | 20.43   | 21.50   |
|           |            | 1       | 25        | 20.15   | 20.40   | 20.43   | 21.50   |
|           |            | 1       | 49        | 20.28   | 20.16   | 20.47   | 21.50   |
|           |            | 25      | 0         | 19.51   | 19.12   | 19.12   | 20.50   |
|           |            | 25      | 13        | 19.31   | 19.05   | 18.98   | 20.50   |
|           |            | 25      | 25        | 19.09   | 19.28   | 19.07   | 20.50   |
|           |            | 50      | 0         | 18.88   | 19.09   | 19.03   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.25   | 19.12   | 19.06   | 20.50   |
|           |            | 1       | 25        | 19.14   | 18.94   | 18.93   | 20.50   |
|           |            | 1       | 49        | 19.17   | 19.33   | 18.94   | 20.50   |
|           |            | 25      | 0         | 18.02   | 18.15   | 18.33   | 19.50   |
|           |            | 25      | 13        | 18.11   | 18.27   | 18.18   | 19.50   |
|           |            | 25      | 25        | 18.24   | 18.06   | 18.46   | 19.50   |
|           |            | 50      | 0         | 18.15   | 18.32   | 18.36   | 19.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 18675   | 18900   | 19125   |         |       |
| 15MHz     | 256QAM     | 1       | 0         | 16.18   | 16.32   | 16.27   | 17.50   |       |
|           |            | 1       | 25        | 16.05   | 16.14   | 16.30   | 17.50   |       |
|           |            | 1       | 49        | 16.02   | 16.23   | 16.21   | 17.50   |       |
|           |            | 25      | 0         | 16.07   | 15.94   | 16.04   | 17.50   |       |
|           |            | 25      | 13        | 16.22   | 15.97   | 15.82   | 17.50   |       |
|           |            | 25      | 25        | 16.33   | 16.13   | 15.91   | 17.50   |       |
|           |            | 50      | 0         | 16.11   | 16.21   | 16.05   | 17.50   |       |
|           | 15MHz      | QPSK    | 1         | 0       | 21.41   | 21.27   | 21.42   | 22.50 |
|           |            |         | 1         | 38      | 21.34   | 21.21   | 21.07   | 22.50 |
|           |            |         | 1         | 74      | 21.42   | 21.16   | 21.19   | 22.50 |
|           |            |         | 36        | 0       | 20.48   | 20.12   | 20.16   | 21.50 |
|           |            |         | 36        | 18      | 20.32   | 20.36   | 20.38   | 21.50 |
|           |            |         | 36        | 39      | 20.34   | 20.22   | 20.34   | 21.50 |
|           |            |         | 75        | 0       | 20.30   | 20.16   | 20.23   | 21.50 |
|           |            | 16QAM   | 1         | 0       | 20.73   | 20.27   | 20.57   | 21.50 |
|           |            |         | 1         | 38      | 20.21   | 20.43   | 20.22   | 21.50 |
|           |            |         | 1         | 74      | 20.30   | 20.43   | 20.47   | 21.50 |
|           |            |         | 36        | 0       | 19.28   | 19.07   | 18.99   | 20.50 |
|           |            |         | 36        | 18      | 19.39   | 19.23   | 18.79   | 20.50 |
|           |            |         | 36        | 39      | 19.33   | 19.35   | 19.00   | 20.50 |
|           |            |         | 75        | 0       | 19.01   | 18.88   | 19.21   | 20.50 |
| 64QAM     |            | 1       | 0         | 18.98   | 19.19   | 18.98   | 20.50   |       |
|           |            | 1       | 38        | 19.38   | 19.21   | 19.15   | 20.50   |       |
|           |            | 1       | 74        | 19.07   | 19.30   | 18.95   | 20.50   |       |
|           |            | 36      | 0         | 18.08   | 17.91   | 18.20   | 19.50   |       |
|           |            | 36      | 18        | 18.22   | 18.15   | 18.18   | 19.50   |       |
|           |            | 36      | 39        | 18.46   | 18.02   | 18.50   | 19.50   |       |
|           |            | 75      | 0         | 18.24   | 18.27   | 18.24   | 19.50   |       |
| 256QAM    | 1          | 0       | 16.06     | 16.22   | 16.28   | 17.50   |         |       |
|           | 1          | 38      | 15.99     | 16.28   | 16.28   | 17.50   |         |       |
|           | 1          | 74      | 16.11     | 16.09   | 16.22   | 17.50   |         |       |
|           | 36         | 0       | 16.19     | 15.99   | 16.00   | 17.50   |         |       |
|           | 36         | 18      | 16.27     | 16.20   | 15.96   | 17.50   |         |       |
|           | 36         | 39      | 16.29     | 16.01   | 15.81   | 17.50   |         |       |
|           | 75         | 0       | 16.05     | 16.32   | 16.10   | 17.50   |         |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|           |            |         |           | 18700   | 18900   | 19100   |         |       |



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|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 21.49 | 21.13 | 21.37 | 22.50 |
|       |        | 1   | 50 | 21.22 | 21.08 | 21.18 | 22.50 |
|       |        | 1   | 99 | 21.47 | 21.22 | 21.34 | 22.50 |
|       |        | 50  | 0  | 20.37 | 20.09 | 20.10 | 21.50 |
|       |        | 50  | 25 | 20.33 | 20.30 | 20.30 | 21.50 |
|       |        | 50  | 50 | 20.36 | 20.37 | 20.21 | 21.50 |
|       |        | 100 | 0  | 20.44 | 20.09 | 20.28 | 21.50 |
|       | 16QAM  | 1   | 0  | 20.73 | 20.32 | 20.53 | 21.50 |
|       |        | 1   | 50 | 20.29 | 20.36 | 20.28 | 21.50 |
|       |        | 1   | 99 | 20.43 | 20.30 | 20.35 | 21.50 |
|       |        | 50  | 0  | 19.41 | 19.13 | 19.09 | 20.50 |
|       |        | 50  | 25 | 19.26 | 19.11 | 18.85 | 20.50 |
|       |        | 50  | 50 | 19.23 | 19.20 | 19.09 | 20.50 |
|       |        | 100 | 0  | 18.99 | 19.03 | 19.10 | 20.50 |
|       | 64QAM  | 1   | 0  | 19.11 | 19.05 | 19.10 | 20.50 |
|       |        | 1   | 50 | 19.23 | 19.08 | 19.08 | 20.50 |
|       |        | 1   | 99 | 19.03 | 19.31 | 18.99 | 20.50 |
|       |        | 50  | 0  | 18.10 | 18.05 | 18.22 | 19.50 |
|       |        | 50  | 25 | 18.19 | 18.24 | 18.19 | 19.50 |
|       |        | 50  | 50 | 18.38 | 18.04 | 18.37 | 19.50 |
|       |        | 100 | 0  | 18.09 | 18.27 | 18.31 | 19.50 |
|       | 256QAM | 1   | 0  | 16.16 | 16.22 | 16.19 | 17.50 |
|       |        | 1   | 50 | 16.02 | 16.29 | 16.18 | 17.50 |
|       |        | 1   | 99 | 16.17 | 16.14 | 16.23 | 17.50 |
|       |        | 50  | 0  | 16.09 | 16.09 | 16.08 | 17.50 |
|       |        | 50  | 25 | 16.23 | 16.08 | 15.96 | 17.50 |
|       |        | 50  | 50 | 16.19 | 16.00 | 15.89 | 17.50 |
|       |        | 100 | 0  | 16.15 | 16.21 | 16.18 | 17.50 |

| LTE Band 2 Eci3/7 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz            | QPSK       | 1       | 0         | 14.67                | 14.57   | 14.62   | 16.00   |
|                   |            | 1       | 2         | 14.77                | 14.59   | 14.56   | 16.00   |
|                   |            | 1       | 5         | 14.70                | 14.81   | 14.69   | 16.00   |
|                   |            | 3       | 0         | 14.58                | 14.72   | 14.58   | 16.00   |
|                   |            | 3       | 2         | 14.76                | 14.78   | 14.61   | 16.00   |
|                   |            | 3       | 3         | 14.76                | 14.73   | 14.68   | 16.00   |



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|           |            | 6       | 0         | 14.61   | 14.79   | 14.60   | 16.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 16QAM      | 1       | 0         | 14.64   | 14.72   | 14.75   | 16.00   |
|           |            | 1       | 2         | 14.66   | 14.92   | 14.67   | 16.00   |
|           |            | 1       | 5         | 14.72   | 14.62   | 14.82   | 16.00   |
|           |            | 3       | 0         | 14.86   | 14.76   | 14.59   | 16.00   |
|           |            | 3       | 2         | 14.73   | 14.66   | 14.69   | 16.00   |
|           |            | 3       | 3         | 14.76   | 14.67   | 14.63   | 16.00   |
|           |            | 6       | 0         | 14.65   | 14.72   | 14.59   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.61   | 14.69   | 14.72   | 16.00   |
|           |            | 1       | 2         | 14.80   | 14.65   | 14.62   | 16.00   |
|           |            | 1       | 5         | 14.71   | 14.67   | 14.80   | 16.00   |
|           |            | 3       | 0         | 14.80   | 14.61   | 14.63   | 16.00   |
|           |            | 3       | 2         | 14.63   | 14.56   | 14.64   | 16.00   |
|           |            | 3       | 3         | 14.70   | 14.65   | 14.78   | 16.00   |
|           |            | 6       | 0         | 14.64   | 14.64   | 14.63   | 16.00   |
|           | 256QAM     | 1       | 0         | 14.72   | 14.72   | 14.57   | 16.00   |
|           |            | 1       | 2         | 14.83   | 14.60   | 14.67   | 16.00   |
|           |            | 1       | 5         | 14.88   | 14.67   | 14.82   | 16.00   |
|           |            | 3       | 0         | 14.76   | 14.69   | 14.86   | 16.00   |
|           |            | 3       | 2         | 14.71   | 14.70   | 14.54   | 16.00   |
|           |            | 3       | 3         | 14.72   | 14.72   | 14.66   | 16.00   |
|           |            | 6       | 0         | 14.64   | 14.71   | 14.69   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18615   | 18900   | 19185   |         |
| 3MHz      | QPSK       | 1       | 0         | 14.69   | 14.60   | 14.67   | 16.00   |
|           |            | 1       | 7         | 14.73   | 14.67   | 14.66   | 16.00   |
|           |            | 1       | 14        | 14.72   | 14.85   | 14.71   | 16.00   |
|           |            | 8       | 0         | 14.63   | 14.67   | 14.57   | 16.00   |
|           |            | 8       | 4         | 14.80   | 14.79   | 14.67   | 16.00   |
|           |            | 8       | 7         | 14.77   | 14.63   | 14.76   | 16.00   |
|           |            | 15      | 0         | 14.61   | 14.80   | 14.73   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.68   | 14.59   | 14.78   | 16.00   |
|           |            | 1       | 7         | 14.78   | 14.87   | 14.72   | 16.00   |
|           |            | 1       | 14        | 14.75   | 14.68   | 14.95   | 16.00   |
|           |            | 8       | 0         | 14.85   | 14.79   | 14.55   | 16.00   |
|           |            | 8       | 4         | 14.70   | 14.74   | 14.68   | 16.00   |
|           |            | 8       | 7         | 14.68   | 14.69   | 14.67   | 16.00   |
|           |            | 15      | 0         | 14.71   | 14.73   | 14.56   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.61   | 14.74   | 14.72   | 16.00   |



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|           |            | 1       | 7         | 14.76   | 14.67   | 14.56   | 16.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 14        | 14.73   | 14.77   | 14.72   | 16.00   |
|           |            | 8       | 0         | 14.75   | 14.67   | 14.66   | 16.00   |
|           |            | 8       | 4         | 14.67   | 14.67   | 14.75   | 16.00   |
|           |            | 8       | 7         | 14.68   | 14.58   | 14.73   | 16.00   |
|           |            | 15      | 0         | 14.58   | 14.62   | 14.64   | 16.00   |
|           | 256QAM     | 1       | 0         | 14.78   | 14.74   | 14.64   | 16.00   |
|           |            | 1       | 7         | 14.89   | 14.53   | 14.70   | 16.00   |
|           |            | 1       | 14        | 14.78   | 14.60   | 14.85   | 16.00   |
|           |            | 8       | 0         | 14.74   | 14.72   | 14.77   | 16.00   |
|           |            | 8       | 4         | 14.63   | 14.75   | 14.63   | 16.00   |
|           |            | 8       | 7         | 14.66   | 14.71   | 14.66   | 16.00   |
|           |            | 15      | 0         | 14.58   | 14.72   | 14.67   | 16.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
| 5MHz      | QPSK       | 1       | 0         | 14.64   | 14.65   | 14.68   | 16.00   |
|           |            | 1       | 13        | 14.68   | 14.71   | 14.59   | 16.00   |
|           |            | 1       | 24        | 14.64   | 14.77   | 14.77   | 16.00   |
|           |            | 12      | 0         | 14.62   | 14.81   | 14.53   | 16.00   |
|           |            | 12      | 6         | 14.80   | 14.70   | 14.62   | 16.00   |
|           |            | 12      | 13        | 14.73   | 14.64   | 14.78   | 16.00   |
|           |            | 25      | 0         | 14.56   | 14.80   | 14.59   | 16.00   |
|           | 16QAM      | 1       | 0         | 14.68   | 14.72   | 14.74   | 16.00   |
|           |            | 1       | 13        | 14.78   | 14.89   | 14.65   | 16.00   |
|           |            | 1       | 24        | 14.70   | 14.68   | 14.91   | 16.00   |
|           |            | 12      | 0         | 14.72   | 14.68   | 14.64   | 16.00   |
|           |            | 12      | 6         | 14.78   | 14.66   | 14.65   | 16.00   |
|           |            | 12      | 13        | 14.75   | 14.80   | 14.71   | 16.00   |
|           |            | 25      | 0         | 14.64   | 14.67   | 14.55   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.62   | 14.68   | 14.75   | 16.00   |
|           |            | 1       | 13        | 14.77   | 14.64   | 14.68   | 16.00   |
|           |            | 1       | 24        | 14.72   | 14.71   | 14.67   | 16.00   |
|           |            | 12      | 0         | 14.67   | 14.57   | 14.67   | 16.00   |
|           |            | 12      | 6         | 14.69   | 14.68   | 14.67   | 16.00   |
|           |            | 12      | 13        | 14.69   | 14.63   | 14.72   | 16.00   |
|           |            | 25      | 0         | 14.69   | 14.71   | 14.66   | 16.00   |
|           | 256QAM     | 1       | 0         | 14.79   | 14.78   | 14.52   | 16.00   |
|           |            | 1       | 13        | 14.89   | 14.58   | 14.65   | 16.00   |
|           |            | 1       | 24        | 14.83   | 14.68   | 14.84   | 16.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 18650   | 18900   | 19150   |         |       |
| 10MHz     | QPSK       | 12      | 0         | 14.69   | 14.71   | 14.83   | 16.00   |       |
|           |            | 12      | 6         | 14.75   | 14.78   | 14.63   | 16.00   |       |
|           |            | 12      | 13        | 14.63   | 14.62   | 14.70   | 16.00   |       |
|           |            | 25      | 0         | 14.57   | 14.73   | 14.58   | 16.00   |       |
|           | 16QAM      | QPSK    | 1         | 0       | 14.73   | 14.57   | 14.74   | 16.00 |
|           |            |         | 1         | 25      | 14.77   | 14.62   | 14.66   | 16.00 |
|           |            |         | 1         | 49      | 14.69   | 14.80   | 14.65   | 16.00 |
|           |            |         | 25        | 0       | 14.63   | 14.72   | 14.63   | 16.00 |
|           |            |         | 25        | 13      | 14.72   | 14.76   | 14.61   | 16.00 |
|           |            |         | 25        | 25      | 14.70   | 14.61   | 14.70   | 16.00 |
|           |            | 16QAM   | 1         | 0       | 14.62   | 14.67   | 14.74   | 16.00 |
|           |            |         | 1         | 25      | 14.79   | 14.89   | 14.71   | 16.00 |
|           |            |         | 1         | 49      | 14.74   | 14.62   | 14.87   | 16.00 |
|           |            |         | 25        | 0       | 14.86   | 14.75   | 14.54   | 16.00 |
|           |            |         | 25        | 13      | 14.78   | 14.66   | 14.69   | 16.00 |
|           |            |         | 25        | 25      | 14.72   | 14.72   | 14.69   | 16.00 |
|           | 64QAM      | QPSK    | 50        | 0       | 14.58   | 14.67   | 14.68   | 16.00 |
|           |            |         | 1         | 0       | 14.71   | 14.79   | 14.77   | 16.00 |
|           |            |         | 1         | 25      | 14.75   | 14.62   | 14.62   | 16.00 |
|           |            |         | 1         | 49      | 14.82   | 14.75   | 14.67   | 16.00 |
|           |            |         | 25        | 0       | 14.79   | 14.67   | 14.66   | 16.00 |
|           |            |         | 25        | 13      | 14.74   | 14.64   | 14.69   | 16.00 |
|           |            | 256QAM  | 25        | 25      | 14.76   | 14.61   | 14.69   | 16.00 |
|           |            |         | 50        | 0       | 14.65   | 14.67   | 14.66   | 16.00 |
|           |            |         | 1         | 0       | 14.86   | 14.79   | 14.60   | 16.00 |
|           |            |         | 1         | 25      | 14.76   | 14.53   | 14.58   | 16.00 |
|           |            |         | 1         | 49      | 14.76   | 14.55   | 14.86   | 16.00 |
|           |            |         | 25        | 0       | 14.72   | 14.71   | 14.76   | 16.00 |
| 256QAM    | 25         | 13      | 14.63     | 14.65   | 14.61   | 16.00   |         |       |
|           | 25         | 25      | 14.66     | 14.71   | 14.76   | 16.00   |         |       |
|           | 50         | 0       | 14.65     | 14.64   | 14.65   | 16.00   |         |       |
|           | 18675      |         |           |         |         |         |         |       |
|           | 15MHz      | QPSK    | 18900     |         |         |         |         |       |
|           |            |         | 19125     |         |         |         |         |       |
| 1         |            |         | 0         | 14.72   | 14.58   | 14.71   | 16.00   |       |
|           |            | 1       | 38        | 14.79   | 14.72   | 14.60   | 16.00   |       |
|           |            | 1       | 74        | 14.65   | 14.85   | 14.72   | 16.00   |       |



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|       |           | 36         | 0       | 14.65     | 14.73   | 14.54   | 16.00   |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 36         | 18      | 14.76     | 14.70   | 14.69   | 16.00   |         |
|       |           | 36         | 39      | 14.76     | 14.75   | 14.69   | 16.00   |         |
|       |           | 75         | 0       | 14.60     | 14.72   | 14.60   | 16.00   |         |
|       | 16QAM     | 1          | 0       | 14.68     | 14.64   | 14.86   | 16.00   |         |
|       |           | 1          | 38      | 14.72     | 14.89   | 14.67   | 16.00   |         |
|       |           | 1          | 74      | 14.74     | 14.65   | 14.82   | 16.00   |         |
|       |           | 36         | 0       | 14.76     | 14.76   | 14.62   | 16.00   |         |
|       |           | 36         | 18      | 14.68     | 14.74   | 14.71   | 16.00   |         |
|       |           | 36         | 39      | 14.72     | 14.74   | 14.74   | 16.00   |         |
|       |           | 75         | 0       | 14.70     | 14.79   | 14.62   | 16.00   |         |
|       | 64QAM     | 1          | 0       | 14.70     | 14.69   | 14.81   | 16.00   |         |
|       |           | 1          | 38      | 14.70     | 14.64   | 14.59   | 16.00   |         |
|       |           | 1          | 74      | 14.74     | 14.76   | 14.72   | 16.00   |         |
|       |           | 36         | 0       | 14.72     | 14.66   | 14.59   | 16.00   |         |
|       |           | 36         | 18      | 14.71     | 14.63   | 14.69   | 16.00   |         |
|       |           | 36         | 39      | 14.71     | 14.63   | 14.71   | 16.00   |         |
|       |           | 75         | 0       | 14.69     | 14.71   | 14.61   | 16.00   |         |
|       | 256QAM    | 1          | 0       | 14.76     | 14.66   | 14.57   | 16.00   |         |
|       |           | 1          | 38      | 14.89     | 14.61   | 14.66   | 16.00   |         |
|       |           | 1          | 74      | 14.82     | 14.54   | 14.88   | 16.00   |         |
|       |           | 36         | 0       | 14.71     | 14.77   | 14.75   | 16.00   |         |
|       |           | 36         | 18      | 14.72     | 14.67   | 14.54   | 16.00   |         |
|       |           | 36         | 39      | 14.70     | 14.62   | 14.75   | 16.00   |         |
|       |           | 75         | 0       | 14.54     | 14.71   | 14.66   | 16.00   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 18700   | 18900   | 19100   |         |
|       | 20MHz     | QPSK       | 1       | 0         | 14.86   | 14.67   | 14.76   | 16.00   |
| 1     |           |            | 50      | 14.78     | 14.71   | 14.66   | 16.00   |         |
| 1     |           |            | 99      | 14.85     | 14.75   | 14.75   | 16.00   |         |
| 50    |           |            | 0       | 14.80     | 14.75   | 14.64   | 16.00   |         |
| 50    |           |            | 25      | 14.79     | 14.77   | 14.72   | 16.00   |         |
| 50    |           |            | 50      | 14.78     | 14.78   | 14.70   | 16.00   |         |
| 100   |           |            | 0       | 14.57     | 14.68   | 14.61   | 16.00   |         |
| 16QAM |           | 1          | 0       | 14.64     | 14.61   | 14.75   | 16.00   |         |
|       |           | 1          | 50      | 14.68     | 14.83   | 14.64   | 16.00   |         |
|       |           | 1          | 99      | 14.66     | 14.63   | 14.83   | 16.00   |         |
|       |           | 50         | 0       | 14.74     | 14.67   | 14.56   | 16.00   |         |
|       |           | 50         | 25      | 14.67     | 14.65   | 14.62   | 16.00   |         |



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|       |        |    |       |       |       |       |       |
|-------|--------|----|-------|-------|-------|-------|-------|
| 64QAM | 50     | 50 | 14.68 | 14.68 | 14.65 | 16.00 |       |
|       | 100    | 0  | 14.59 | 14.67 | 14.57 | 16.00 |       |
|       | 1      | 0  | 14.59 | 14.70 | 14.72 | 16.00 |       |
|       | 1      | 50 | 14.71 | 14.60 | 14.56 | 16.00 |       |
|       | 1      | 99 | 14.72 | 14.68 | 14.68 | 16.00 |       |
|       | 50     | 0  | 14.68 | 14.59 | 14.56 | 16.00 |       |
|       | 50     | 25 | 14.65 | 14.58 | 14.63 | 16.00 |       |
|       | 50     | 50 | 14.67 | 14.58 | 14.66 | 16.00 |       |
|       | 100    | 0  | 14.60 | 14.60 | 14.58 | 16.00 |       |
|       | 256QAM | 1  | 0     | 14.74 | 14.67 | 14.54 | 16.00 |
|       |        | 1  | 50    | 14.77 | 14.52 | 14.60 | 16.00 |
|       |        | 1  | 99    | 14.77 | 14.56 | 14.78 | 16.00 |
|       |        | 50 | 0     | 14.68 | 14.66 | 14.74 | 16.00 |
|       |        | 50 | 25    | 14.63 | 14.66 | 14.55 | 16.00 |
| 50    |        | 50 | 14.60 | 14.64 | 14.64 | 16.00 |       |
| 100   |        | 0  | 14.56 | 14.66 | 14.57 | 16.00 |       |

| LTE Band 2 Eci6 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 18.12                | 18.02   | 17.90   | 19.50   |
|                 |            | 1       | 2         | 17.66                | 17.63   | 17.66   | 19.50   |
|                 |            | 1       | 5         | 17.78                | 17.59   | 17.63   | 19.50   |
|                 |            | 3       | 0         | 17.79                | 17.68   | 17.50   | 19.50   |
|                 |            | 3       | 2         | 17.61                | 17.75   | 17.60   | 19.50   |
|                 |            | 3       | 3         | 17.70                | 17.78   | 17.69   | 19.50   |
|                 | 16QAM      | 6       | 0         | 17.66                | 17.68   | 17.65   | 19.50   |
|                 |            | 1       | 0         | 17.64                | 17.53   | 17.82   | 19.50   |
|                 |            | 1       | 2         | 17.58                | 17.74   | 17.72   | 19.50   |
|                 |            | 1       | 5         | 17.58                | 17.62   | 17.77   | 19.50   |
|                 |            | 3       | 0         | 17.79                | 17.62   | 17.50   | 19.50   |
|                 |            | 3       | 2         | 17.74                | 17.64   | 17.56   | 19.50   |
|                 | 64QAM      | 3       | 3         | 17.72                | 17.62   | 17.58   | 19.50   |
|                 |            | 6       | 0         | 17.63                | 17.65   | 17.58   | 19.50   |
|                 |            | 1       | 0         | 17.66                | 17.71   | 17.77   | 19.50   |
|                 |            | 1       | 2         | 17.81                | 17.60   | 17.52   | 19.50   |
|                 |            | 1       | 5         | 17.64                | 17.58   | 17.77   | 19.50   |
|                 | 3          | 0       | 17.60     | 17.57                | 17.53   | 19.50   |         |



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|           |            | 3       | 2         | 17.63   | 17.56   | 17.56   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 3         | 17.66   | 17.63   | 17.64   | 19.50   |
|           |            | 6       | 0         | 17.56   | 17.54   | 17.78   | 19.50   |
|           | 256QAM     | 1       | 0         | 17.29   | 17.22   | 17.10   | 17.50   |
|           |            | 1       | 2         | 17.21   | 17.10   | 17.09   | 17.50   |
|           |            | 1       | 5         | 17.22   | 16.99   | 17.24   | 17.50   |
|           |            | 3       | 0         | 17.25   | 17.20   | 17.25   | 17.50   |
|           |            | 3       | 2         | 17.08   | 17.17   | 17.06   | 17.50   |
|           |            | 3       | 3         | 17.12   | 17.19   | 17.05   | 17.50   |
| 6         |            | 0       | 17.04     | 17.06   | 17.06   | 17.50   |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18615   | 18900   | 19185   |         |
| 3MHz      | QPSK       | 1       | 0         | 17.99   | 17.93   | 18.03   | 19.50   |
|           |            | 1       | 7         | 17.78   | 17.66   | 17.77   | 19.50   |
|           |            | 1       | 14        | 17.73   | 17.64   | 17.61   | 19.50   |
|           |            | 8       | 0         | 17.69   | 17.67   | 17.50   | 19.50   |
|           |            | 8       | 4         | 17.79   | 17.65   | 17.70   | 19.50   |
|           |            | 8       | 7         | 17.75   | 17.61   | 17.50   | 19.50   |
|           |            | 15      | 0         | 17.57   | 17.63   | 17.51   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.67   | 17.66   | 17.78   | 19.50   |
|           |            | 1       | 7         | 17.66   | 17.81   | 17.56   | 19.50   |
|           |            | 1       | 14        | 17.65   | 17.64   | 17.80   | 19.50   |
|           |            | 8       | 0         | 17.68   | 17.69   | 17.58   | 19.50   |
|           |            | 8       | 4         | 17.77   | 17.73   | 17.61   | 19.50   |
|           |            | 8       | 7         | 17.61   | 17.64   | 17.65   | 19.50   |
|           |            | 15      | 0         | 17.67   | 17.75   | 17.79   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.58   | 17.78   | 17.80   | 19.50   |
|           |            | 1       | 7         | 17.74   | 17.66   | 17.66   | 19.50   |
|           |            | 1       | 14        | 17.65   | 17.59   | 17.73   | 19.50   |
|           |            | 8       | 0         | 17.76   | 17.51   | 17.52   | 19.50   |
|           |            | 8       | 4         | 17.66   | 17.59   | 17.68   | 19.50   |
|           |            | 8       | 7         | 17.58   | 17.64   | 17.61   | 19.50   |
|           |            | 15      | 0         | 17.51   | 17.60   | 17.51   | 19.50   |
|           | 256QAM     | 1       | 0         | 17.19   | 17.11   | 16.95   | 17.50   |
|           |            | 1       | 7         | 17.20   | 16.96   | 17.14   | 17.50   |
|           |            | 1       | 14        | 17.31   | 17.15   | 17.25   | 17.50   |
|           |            | 8       | 0         | 17.11   | 17.24   | 17.26   | 17.50   |
|           |            | 8       | 4         | 17.07   | 17.11   | 17.02   | 17.50   |
|           |            | 8       | 7         | 17.13   | 17.20   | 17.23   | 17.50   |



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| Bandwidth | Modulation | 15      | 0         | 16.99            | 17.17            | 17.15            | 17.50   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | RB size | RB offset | Channel<br>18625 | Channel<br>18900 | Channel<br>19175 | Tune up |
| 5MHz      | QPSK       | 1       | 0         | 18.07            | 17.92            | 18.02            | 19.50   |
|           |            | 1       | 13        | 17.67            | 17.66            | 17.66            | 19.50   |
|           |            | 1       | 24        | 17.82            | 17.63            | 17.59            | 19.50   |
|           |            | 12      | 0         | 17.68            | 17.72            | 17.60            | 19.50   |
|           |            | 12      | 6         | 17.59            | 17.71            | 17.72            | 19.50   |
|           |            | 12      | 13        | 17.77            | 17.74            | 17.68            | 19.50   |
|           | 16QAM      | 1       | 0         | 17.65            | 17.69            | 17.70            | 19.50   |
|           |            | 1       | 13        | 17.65            | 17.82            | 17.59            | 19.50   |
|           |            | 1       | 24        | 17.67            | 17.63            | 17.89            | 19.50   |
|           |            | 12      | 0         | 17.80            | 17.64            | 17.58            | 19.50   |
|           |            | 12      | 6         | 17.62            | 17.73            | 17.58            | 19.50   |
|           |            | 12      | 13        | 17.64            | 17.61            | 17.70            | 19.50   |
|           | 64QAM      | 25      | 0         | 17.52            | 17.59            | 17.54            | 19.50   |
|           |            | 1       | 0         | 17.62            | 17.70            | 17.69            | 19.50   |
|           |            | 1       | 13        | 17.75            | 17.62            | 17.65            | 19.50   |
|           |            | 1       | 24        | 17.68            | 17.59            | 17.76            | 19.50   |
|           |            | 12      | 0         | 17.74            | 17.66            | 17.53            | 19.50   |
|           |            | 12      | 6         | 17.75            | 17.57            | 17.59            | 19.50   |
|           | 256QAM     | 12      | 13        | 17.57            | 17.53            | 17.64            | 19.50   |
|           |            | 25      | 0         | 17.61            | 17.66            | 17.62            | 19.50   |
|           |            | 1       | 0         | 17.31            | 17.14            | 17.02            | 17.50   |
|           |            | 1       | 13        | 17.36            | 17.07            | 17.11            | 17.50   |
|           |            | 1       | 24        | 17.24            | 17.12            | 17.20            | 17.50   |
|           |            | 12      | 0         | 17.14            | 17.06            | 17.16            | 17.50   |
| 10MHz     | QPSK       | 12      | 6         | 17.08            | 17.17            | 16.97            | 17.50   |
|           |            | 12      | 13        | 17.04            | 17.07            | 17.12            | 17.50   |
|           |            | 25      | 0         | 17.11            | 17.11            | 17.01            | 17.50   |
|           |            | 1       | 0         | 17.97            | 17.96            | 17.86            | 19.50   |
|           |            | 1       | 25        | 17.64            | 17.53            | 17.77            | 19.50   |
|           |            | 1       | 49        | 17.74            | 17.67            | 17.55            | 19.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel          | Channel          | Channel          | Tune up |
|           |            |         |           | 18650            | 18900            | 19150            |         |
| 10MHz     | QPSK       | 25      | 0         | 17.79            | 17.56            | 17.55            | 19.50   |
|           |            | 25      | 13        | 17.78            | 17.61            | 17.65            | 19.50   |
|           |            | 25      | 25        | 17.62            | 17.77            | 17.60            | 19.50   |



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|           |            | 50      | 0         | 17.52   | 17.58   | 17.52   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 16QAM      | 1       | 0         | 17.62   | 17.64   | 17.82   | 19.50   |
|           |            | 1       | 25        | 17.68   | 17.86   | 17.65   | 19.50   |
|           |            | 1       | 49        | 17.57   | 17.70   | 17.82   | 19.50   |
|           |            | 25      | 0         | 17.72   | 17.57   | 17.55   | 19.50   |
|           |            | 25      | 13        | 17.70   | 17.61   | 17.66   | 19.50   |
|           |            | 25      | 25        | 17.67   | 17.59   | 17.69   | 19.50   |
|           |            | 50      | 0         | 17.50   | 17.73   | 17.51   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.58   | 17.60   | 17.70   | 19.50   |
|           |            | 1       | 25        | 17.63   | 17.57   | 17.60   | 19.50   |
|           |            | 1       | 49        | 17.78   | 17.66   | 17.78   | 19.50   |
|           |            | 25      | 0         | 17.78   | 17.68   | 17.62   | 19.50   |
|           |            | 25      | 13        | 17.62   | 17.61   | 17.67   | 19.50   |
|           |            | 25      | 25        | 17.64   | 17.53   | 17.74   | 19.50   |
|           |            | 50      | 0         | 17.57   | 17.59   | 17.57   | 19.50   |
|           | 256QAM     | 1       | 0         | 17.17   | 17.21   | 17.13   | 17.50   |
|           |            | 1       | 25        | 17.19   | 17.05   | 17.08   | 17.50   |
|           |            | 1       | 49        | 17.31   | 17.00   | 17.34   | 17.50   |
|           |            | 25      | 0         | 17.15   | 17.12   | 17.29   | 17.50   |
|           |            | 25      | 13        | 17.16   | 17.26   | 17.07   | 17.50   |
|           |            | 25      | 25        | 17.17   | 17.14   | 17.23   | 17.50   |
|           |            | 50      | 0         | 17.09   | 17.21   | 17.05   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 18.07   | 18.09   | 17.85   | 19.50   |
|           |            | 1       | 38        | 17.64   | 17.61   | 17.78   | 19.50   |
|           |            | 1       | 74        | 17.79   | 17.75   | 17.64   | 19.50   |
|           |            | 36      | 0         | 17.60   | 17.64   | 17.54   | 19.50   |
|           |            | 36      | 18        | 17.69   | 17.70   | 17.54   | 19.50   |
|           |            | 36      | 39        | 17.68   | 17.61   | 17.58   | 19.50   |
|           |            | 75      | 0         | 17.58   | 17.77   | 17.51   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.73   | 17.69   | 17.65   | 19.50   |
|           |            | 1       | 38        | 17.64   | 17.88   | 17.63   | 19.50   |
|           |            | 1       | 74        | 17.75   | 17.54   | 17.84   | 19.50   |
|           |            | 36      | 0         | 17.83   | 17.58   | 17.60   | 19.50   |
|           |            | 36      | 18        | 17.71   | 17.75   | 17.61   | 19.50   |
|           |            | 36      | 39        | 17.71   | 17.63   | 17.73   | 19.50   |
|           |            | 75      | 0         | 17.67   | 17.57   | 17.63   | 19.50   |
| 64QAM     | 1          | 0       | 17.64     | 17.66   | 17.81   | 19.50   |         |



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|              |                  |                   |                |                  |                |                |                |
|--------------|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|
|              |                  | 1                 | 38             | 17.77            | 17.52          | 17.59          | 19.50          |
|              |                  | 1                 | 74             | 17.65            | 17.75          | 17.61          | 19.50          |
|              |                  | 36                | 0              | 17.58            | 17.66          | 17.66          | 19.50          |
|              |                  | 36                | 18             | 17.66            | 17.59          | 17.55          | 19.50          |
|              |                  | 36                | 39             | 17.57            | 17.55          | 17.67          | 19.50          |
|              |                  | 75                | 0              | 17.69            | 17.55          | 17.53          | 19.50          |
|              |                  | 256QAM            | 1              | 0                | 17.32          | 17.19          | 17.09          |
|              | 1                | 38                | 17.22          | 17.07            | 17.10          | 17.50          |                |
|              | 1                | 74                | 17.19          | 17.11            | 17.30          | 17.50          |                |
|              | 36               | 0                 | 17.28          | 17.12            | 17.26          | 17.50          |                |
|              | 36               | 18                | 17.19          | 17.20            | 16.96          | 17.50          |                |
|              | 36               | 39                | 17.12          | 17.17            | 17.11          | 17.50          |                |
|              | 75               | 0                 | 17.05          | 17.22            | 17.14          | 17.50          |                |
|              | <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> |
|              |                  |                   |                | 18700            | 18900          | 19100          |                |
| <b>20MHz</b> | QPSK             | 1                 | 0              | 18.05            | 18.02          | 17.95          | 19.50          |
|              |                  | 1                 | 50             | 17.68            | 17.61          | 17.56          | 19.50          |
|              |                  | 1                 | 99             | 17.75            | 17.65          | 17.65          | 19.50          |
|              |                  | 50                | 0              | 17.70            | 17.65          | 17.54          | 19.50          |
|              |                  | 50                | 25             | 17.69            | 17.67          | 17.62          | 19.50          |
|              |                  | 50                | 50             | 17.68            | 17.68          | 17.60          | 19.50          |
|              |                  | 100               | 0              | 17.57            | 17.68          | 17.61          | 19.50          |
|              | 16QAM            | 1                 | 0              | 17.64            | 17.61          | 17.75          | 19.50          |
|              |                  | 1                 | 50             | 17.68            | 17.83          | 17.64          | 19.50          |
|              |                  | 1                 | 99             | 17.66            | 17.63          | 17.83          | 19.50          |
|              |                  | 50                | 0              | 17.74            | 17.67          | 17.56          | 19.50          |
|              |                  | 50                | 25             | 17.67            | 17.65          | 17.62          | 19.50          |
|              |                  | 50                | 50             | 17.68            | 17.68          | 17.65          | 19.50          |
|              |                  | 100               | 0              | 17.59            | 17.67          | 17.57          | 19.50          |
|              | 64QAM            | 1                 | 0              | 17.59            | 17.70          | 17.72          | 19.50          |
|              |                  | 1                 | 50             | 17.71            | 17.60          | 17.56          | 19.50          |
|              |                  | 1                 | 99             | 17.72            | 17.68          | 17.68          | 19.50          |
|              |                  | 50                | 0              | 17.68            | 17.59          | 17.56          | 19.50          |
|              |                  | 50                | 25             | 17.65            | 17.58          | 17.63          | 19.50          |
|              |                  | 50                | 50             | 17.67            | 17.58          | 17.66          | 19.50          |
|              |                  | 100               | 0              | 17.60            | 17.60          | 17.58          | 19.50          |
|              | 256QAM           | 1                 | 0              | 17.24            | 17.17          | 17.04          | 17.50          |
|              |                  | 1                 | 50             | 17.27            | 17.02          | 17.10          | 17.50          |
|              |                  | 1                 | 99             | 17.27            | 17.06          | 17.28          | 17.50          |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 50  | 0  | 17.18 | 17.16 | 17.24 | 17.50 |
|  |  | 50  | 25 | 17.13 | 17.16 | 17.05 | 17.50 |
|  |  | 50  | 50 | 17.10 | 17.14 | 17.14 | 17.50 |
|  |  | 100 | 0  | 17.06 | 17.16 | 17.07 | 17.50 |

| LTE Band 4 Eci2/4 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz            | QPSK       | 1       | 0         | 20.83                | 20.79   | 20.86   | 22.00   |
|                   |            | 1       | 2         | 20.88                | 20.64   | 20.73   | 22.00   |
|                   |            | 1       | 5         | 20.86                | 20.86   | 21.09   | 22.00   |
|                   |            | 3       | 0         | 21.01                | 20.67   | 20.74   | 22.00   |
|                   |            | 3       | 2         | 20.94                | 20.94   | 20.83   | 22.00   |
|                   |            | 3       | 3         | 20.97                | 21.04   | 20.85   | 22.00   |
|                   | 16QAM      | 1       | 0         | 20.34                | 20.07   | 20.06   | 21.00   |
|                   |            | 1       | 2         | 19.96                | 19.99   | 19.93   | 21.00   |
|                   |            | 1       | 5         | 20.12                | 19.98   | 20.02   | 21.00   |
|                   |            | 3       | 0         | 20.03                | 19.78   | 19.80   | 21.00   |
|                   |            | 3       | 2         | 19.98                | 19.87   | 19.58   | 21.00   |
|                   |            | 3       | 3         | 19.93                | 19.81   | 19.82   | 21.00   |
|                   | 64QAM      | 6       | 0         | 18.52                | 18.79   | 18.65   | 20.00   |
|                   |            | 1       | 0         | 18.76                | 18.78   | 18.73   | 20.00   |
|                   |            | 1       | 2         | 18.87                | 18.65   | 18.85   | 20.00   |
|                   |            | 1       | 5         | 18.58                | 19.08   | 18.59   | 20.00   |
|                   |            | 3       | 0         | 18.78                | 18.64   | 18.85   | 20.00   |
|                   |            | 3       | 2         | 18.93                | 18.89   | 18.86   | 20.00   |
|                   | 256QAM     | 3       | 3         | 19.10                | 18.73   | 19.07   | 20.00   |
|                   |            | 6       | 0         | 17.87                | 17.95   | 17.92   | 19.00   |
|                   |            | 1       | 0         | 15.76                | 15.80   | 15.87   | 17.00   |
|                   |            | 1       | 2         | 15.69                | 15.92   | 15.79   | 17.00   |
|                   |            | 1       | 5         | 15.71                | 15.74   | 15.94   | 17.00   |
|                   |            | 3       | 0         | 15.76                | 15.81   | 15.67   | 17.00   |
|                   |            | 3       | 2         | 15.81                | 15.61   | 15.56   | 17.00   |
|                   |            | 3       | 3         | 15.79                | 15.55   | 15.52   | 17.00   |
|                   |            | 6       | 0         | 15.74                | 15.84   | 15.88   | 17.00   |
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 19965                | 20175   | 20385   |         |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 3MHz      | QPSK       | 1       | 0         | 20.79   | 20.73   | 20.82   | 22.00   |
|           |            | 1       | 7         | 20.96   | 20.70   | 20.90   | 22.00   |
|           |            | 1       | 14        | 20.93   | 20.91   | 20.96   | 22.00   |
|           |            | 8       | 0         | 20.11   | 19.69   | 19.63   | 21.00   |
|           |            | 8       | 4         | 20.09   | 19.94   | 19.83   | 21.00   |
|           |            | 8       | 7         | 19.97   | 19.95   | 19.86   | 21.00   |
|           |            | 15      | 0         | 19.97   | 19.70   | 19.96   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.50   | 19.96   | 20.15   | 21.00   |
|           |            | 1       | 7         | 19.98   | 20.07   | 19.90   | 21.00   |
|           |            | 1       | 14        | 20.14   | 19.88   | 20.12   | 21.00   |
|           |            | 8       | 0         | 18.98   | 18.72   | 18.73   | 20.00   |
|           |            | 8       | 4         | 18.96   | 18.74   | 18.60   | 20.00   |
|           |            | 8       | 7         | 18.77   | 18.93   | 18.81   | 20.00   |
|           |            | 15      | 0         | 18.67   | 18.77   | 18.73   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.87   | 18.75   | 18.63   | 20.00   |
|           |            | 1       | 7         | 18.92   | 18.83   | 18.73   | 20.00   |
|           |            | 1       | 14        | 18.59   | 18.92   | 18.56   | 20.00   |
|           |            | 8       | 0         | 17.80   | 17.60   | 17.98   | 19.00   |
|           |            | 8       | 4         | 17.78   | 17.86   | 17.95   | 19.00   |
|           |            | 8       | 7         | 17.98   | 17.76   | 17.98   | 19.00   |
|           |            | 15      | 0         | 17.81   | 17.93   | 18.06   | 19.00   |
|           | 256QAM     | 1       | 0         | 15.78   | 15.74   | 15.79   | 17.00   |
|           |            | 1       | 7         | 15.69   | 15.85   | 15.79   | 17.00   |
|           |            | 1       | 14        | 15.81   | 15.67   | 15.80   | 17.00   |
|           |            | 8       | 0         | 15.76   | 15.65   | 15.74   | 17.00   |
|           |            | 8       | 4         | 15.82   | 15.72   | 15.61   | 17.00   |
|           |            | 8       | 7         | 15.88   | 15.63   | 15.59   | 17.00   |
|           |            | 15      | 0         | 15.79   | 15.90   | 15.79   | 17.00   |
| 5MHz      | QPSK       | 1       | 0         | 20.86   | 20.79   | 20.96   | 22.00   |
|           |            | 1       | 13        | 20.92   | 20.77   | 20.90   | 22.00   |
|           |            | 1       | 24        | 20.99   | 20.96   | 20.92   | 22.00   |
|           |            | 12      | 0         | 20.07   | 19.74   | 19.70   | 21.00   |
|           |            | 12      | 6         | 20.03   | 19.88   | 19.84   | 21.00   |
|           |            | 12      | 13        | 20.06   | 20.07   | 19.92   | 21.00   |
|           |            | 25      | 0         | 20.02   | 19.83   | 19.81   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.35   | 19.95   | 20.12   | 21.00   |
|           |            | 1       | 13        | 19.95   | 20.04   | 19.78   | 21.00   |



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|       |           |            |         |           |         |         |         |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 1          | 24      | 19.96     | 19.85   | 19.98   | 21.00   |         |
|       |           | 12         | 0       | 19.09     | 18.75   | 18.67   | 20.00   |         |
|       |           | 12         | 6       | 18.88     | 18.75   | 18.60   | 20.00   |         |
|       |           | 12         | 13      | 18.93     | 18.87   | 18.80   | 20.00   |         |
|       |           | 25         | 0       | 18.69     | 18.72   | 18.65   | 20.00   |         |
|       | 64QAM     | 1          | 0       | 18.74     | 18.68   | 18.82   | 20.00   |         |
|       |           | 1          | 13      | 18.83     | 18.71   | 18.86   | 20.00   |         |
|       |           | 1          | 24      | 18.64     | 18.88   | 18.55   | 20.00   |         |
|       |           | 12         | 0       | 17.67     | 17.79   | 17.95   | 19.00   |         |
|       |           | 12         | 6       | 17.79     | 17.81   | 17.78   | 19.00   |         |
|       |           | 12         | 13      | 18.11     | 17.76   | 18.03   | 19.00   |         |
|       | 256QAM    | 25         | 0       | 17.86     | 17.89   | 18.02   | 19.00   |         |
|       |           | 1          | 0       | 15.76     | 15.77   | 15.94   | 17.00   |         |
|       |           | 1          | 13      | 15.54     | 15.96   | 15.86   | 17.00   |         |
|       |           | 1          | 24      | 15.71     | 15.75   | 15.95   | 17.00   |         |
|       |           | 12         | 0       | 15.66     | 15.76   | 15.69   | 17.00   |         |
|       |           | 12         | 6       | 15.89     | 15.77   | 15.54   | 17.00   |         |
|       |           | 12         | 13      | 15.87     | 15.66   | 15.54   | 17.00   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 20000   | 20175   | 20350   |         |
|       | 10MHz     | QPSK       | 1       | 0         | 20.83   | 20.77   | 20.82   | 22.00   |
| 1     |           |            | 25      | 20.87     | 20.81   | 20.79   | 22.00   |         |
| 1     |           |            | 49      | 21.01     | 20.84   | 20.95   | 22.00   |         |
| 25    |           |            | 0       | 20.04     | 19.69   | 19.82   | 21.00   |         |
| 25    |           |            | 13      | 19.96     | 19.97   | 19.98   | 21.00   |         |
| 25    |           |            | 25      | 20.07     | 20.04   | 19.75   | 21.00   |         |
| 50    |           |            | 0       | 19.96     | 19.72   | 19.98   | 21.00   |         |
| 16QAM |           | 1          | 0       | 20.52     | 20.05   | 20.14   | 21.00   |         |
|       |           | 1          | 25      | 19.81     | 20.07   | 19.92   | 21.00   |         |
|       |           | 1          | 49      | 19.99     | 19.95   | 19.93   | 21.00   |         |
|       |           | 25         | 0       | 18.97     | 18.75   | 18.68   | 20.00   |         |
|       |           | 25         | 13      | 18.97     | 18.79   | 18.55   | 20.00   |         |
|       |           | 25         | 25      | 18.78     | 18.86   | 18.62   | 20.00   |         |
|       |           | 50         | 0       | 18.59     | 18.66   | 18.82   | 20.00   |         |
| 64QAM |           | 1          | 0       | 18.73     | 18.71   | 18.73   | 20.00   |         |
|       |           | 1          | 25      | 18.99     | 18.63   | 18.80   | 20.00   |         |
|       |           | 1          | 49      | 18.66     | 18.99   | 18.71   | 20.00   |         |
|       |           | 25         | 0       | 17.70     | 17.76   | 17.96   | 19.00   |         |



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|           |            | 25      | 13        | 17.81   | 17.99   | 17.79   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 18.08   | 17.76   | 18.09   | 19.00   |
|           |            | 50      | 0         | 17.87   | 17.88   | 18.05   | 19.00   |
|           | 256QAM     | 1       | 0         | 15.72   | 15.77   | 15.93   | 17.00   |
|           |            | 1       | 25        | 15.74   | 15.90   | 15.85   | 17.00   |
|           |            | 1       | 49        | 15.79   | 15.75   | 15.80   | 17.00   |
|           |            | 25      | 0         | 15.86   | 15.67   | 15.85   | 17.00   |
|           |            | 25      | 13        | 15.91   | 15.72   | 15.55   | 17.00   |
|           |            | 25      | 25        | 15.85   | 15.61   | 15.54   | 17.00   |
|           |            | 50      | 0         | 15.83   | 15.81   | 15.77   | 17.00   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.77   | 20.74   | 20.95   | 22.00   |
|           |            | 1       | 38        | 20.99   | 20.80   | 20.77   | 22.00   |
|           |            | 1       | 74        | 20.99   | 20.84   | 20.92   | 22.00   |
|           |            | 36      | 0         | 20.07   | 19.72   | 19.76   | 21.00   |
|           |            | 36      | 18        | 20.09   | 19.87   | 19.86   | 21.00   |
|           |            | 36      | 39        | 19.93   | 20.11   | 19.76   | 21.00   |
|           |            | 75      | 0         | 19.97   | 19.77   | 19.84   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.44   | 20.07   | 20.10   | 21.00   |
|           |            | 1       | 38        | 19.98   | 20.02   | 19.80   | 21.00   |
|           |            | 1       | 74        | 20.09   | 19.86   | 20.08   | 21.00   |
|           |            | 36      | 0         | 19.11   | 18.87   | 18.71   | 20.00   |
|           |            | 36      | 18        | 18.95   | 18.91   | 18.48   | 20.00   |
|           |            | 36      | 39        | 18.80   | 18.76   | 18.73   | 20.00   |
|           |            | 75      | 0         | 18.55   | 18.65   | 18.63   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.69   | 18.78   | 18.74   | 20.00   |
|           |            | 1       | 38        | 18.94   | 18.70   | 18.68   | 20.00   |
|           |            | 1       | 74        | 18.56   | 18.94   | 18.63   | 20.00   |
|           |            | 36      | 0         | 17.68   | 17.76   | 17.90   | 19.00   |
|           |            | 36      | 18        | 17.83   | 17.89   | 17.95   | 19.00   |
|           |            | 36      | 39        | 18.03   | 17.65   | 17.96   | 19.00   |
|           |            | 75      | 0         | 17.75   | 17.97   | 18.08   | 19.00   |
|           | 256QAM     | 1       | 0         | 15.68   | 15.83   | 15.85   | 17.00   |
|           |            | 1       | 38        | 15.69   | 15.84   | 15.69   | 17.00   |
|           |            | 1       | 74        | 15.86   | 15.70   | 15.94   | 17.00   |
|           |            | 36      | 0         | 15.81   | 15.74   | 15.86   | 17.00   |
|           |            | 36      | 18        | 15.88   | 15.70   | 15.54   | 17.00   |
|           |            | 36      | 39        | 15.84   | 15.61   | 15.53   | 17.00   |



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| Bandwidth | Modulation | 75      | 0         | 15.87            | 15.80            | 15.78            | 17.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | RB size | RB offset | Channel<br>20050 | Channel<br>20175 | Channel<br>20300 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 20.78            | 20.79            | 20.86            | 22.00   |
|           |            | 1       | 50        | 20.91            | 20.74            | 20.81            | 22.00   |
|           |            | 1       | 99        | 20.94            | 20.88            | 21.00            | 22.00   |
|           |            | 50      | 0         | 20.04            | 19.69            | 19.72            | 21.00   |
|           |            | 50      | 25        | 20.02            | 19.93            | 19.90            | 21.00   |
|           |            | 50      | 50        | 19.99            | 20.04            | 19.82            | 21.00   |
|           |            | 100     | 0         | 20.05            | 19.79            | 19.88            | 21.00   |
|           | 16QAM      | 1       | 0         | 20.42            | 19.99            | 20.15            | 21.00   |
|           |            | 1       | 50        | 19.91            | 20.03            | 19.88            | 21.00   |
|           |            | 1       | 99        | 20.04            | 19.92            | 20.02            | 21.00   |
|           |            | 50      | 0         | 19.07            | 18.81            | 18.77            | 20.00   |
|           |            | 50      | 25        | 18.96            | 18.81            | 18.53            | 20.00   |
|           |            | 50      | 50        | 18.86            | 18.85            | 18.72            | 20.00   |
|           |            | 100     | 0         | 18.59            | 18.72            | 18.72            | 20.00   |
|           | 64QAM      | 1       | 0         | 18.79            | 18.70            | 18.73            | 20.00   |
|           |            | 1       | 50        | 18.93            | 18.73            | 18.77            | 20.00   |
|           |            | 1       | 99        | 18.63            | 18.98            | 18.61            | 20.00   |
|           |            | 50      | 0         | 17.75            | 17.70            | 17.92            | 19.00   |
|           |            | 50      | 25        | 17.86            | 17.90            | 17.88            | 19.00   |
|           |            | 50      | 50        | 18.03            | 17.68            | 18.03            | 19.00   |
|           |            | 100     | 0         | 17.79            | 17.95            | 18.00            | 19.00   |
|           | 256QAM     | 1       | 0         | 15.78            | 15.83            | 15.86            | 17.00   |
|           |            | 1       | 50        | 15.64            | 15.91            | 15.79            | 17.00   |
|           |            | 1       | 99        | 15.78            | 15.74            | 15.88            | 17.00   |
|           |            | 50      | 0         | 15.76            | 15.71            | 15.76            | 17.00   |
|           |            | 50      | 25        | 15.84            | 15.71            | 15.58            | 17.00   |
|           |            | 50      | 50        | 15.87            | 15.64            | 15.52            | 17.00   |
|           |            | 100     | 0         | 15.84            | 15.89            | 15.82            | 17.00   |

| LTE Band 4 Eci3/7 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |



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| Bandwidth | Modulation | RB size | RB offset | 19957 | 20175 | 20393 | Tune up |
|-----------|------------|---------|-----------|-------|-------|-------|---------|
|           |            |         |           | 19965 | 20175 | 20385 |         |
| 1.4MHz    | QPSK       | 1       | 0         | 14.81 | 14.77 | 14.72 | 16.00   |
|           |            | 1       | 2         | 14.92 | 14.85 | 14.81 | 16.00   |
|           |            | 1       | 5         | 14.87 | 14.76 | 14.78 | 16.00   |
|           |            | 3       | 0         | 14.80 | 14.74 | 14.67 | 16.00   |
|           |            | 3       | 2         | 14.95 | 14.75 | 14.76 | 16.00   |
|           |            | 3       | 3         | 14.92 | 14.78 | 14.88 | 16.00   |
|           | 16QAM      | 6       | 0         | 14.77 | 14.78 | 14.73 | 16.00   |
|           |            | 1       | 0         | 15.06 | 14.84 | 14.75 | 16.00   |
|           |            | 1       | 2         | 15.18 | 14.99 | 14.89 | 16.00   |
|           |            | 1       | 5         | 15.02 | 15.06 | 14.90 | 16.00   |
|           |            | 3       | 0         | 14.89 | 14.76 | 14.65 | 16.00   |
|           |            | 3       | 2         | 14.91 | 14.78 | 14.77 | 16.00   |
|           | 64QAM      | 3       | 3         | 14.80 | 14.82 | 14.77 | 16.00   |
|           |            | 6       | 0         | 14.82 | 14.86 | 14.83 | 16.00   |
|           |            | 1       | 0         | 14.97 | 14.82 | 14.74 | 16.00   |
|           |            | 1       | 2         | 14.99 | 14.79 | 14.93 | 16.00   |
|           |            | 1       | 5         | 15.00 | 14.79 | 14.85 | 16.00   |
|           |            | 3       | 0         | 14.90 | 14.86 | 14.70 | 16.00   |
|           | 256QAM     | 3       | 2         | 15.00 | 14.85 | 14.85 | 16.00   |
|           |            | 3       | 3         | 14.84 | 14.88 | 14.90 | 16.00   |
|           |            | 6       | 0         | 14.77 | 14.76 | 14.82 | 16.00   |
|           |            | 1       | 0         | 14.90 | 14.84 | 14.71 | 16.00   |
|           |            | 1       | 2         | 14.86 | 14.76 | 14.86 | 16.00   |
|           |            | 1       | 5         | 14.89 | 14.96 | 14.88 | 16.00   |
| 3MHz      | QPSK       | 3       | 0         | 14.83 | 14.83 | 14.74 | 16.00   |
|           |            | 3       | 2         | 14.92 | 14.75 | 14.82 | 16.00   |
|           |            | 3       | 3         | 14.86 | 14.76 | 14.73 | 16.00   |
|           |            | 6       | 0         | 14.89 | 14.75 | 14.76 | 16.00   |
|           |            | 1       | 0         | 14.89 | 14.81 | 14.71 | 16.00   |
|           |            | 1       | 7         | 14.86 | 14.86 | 14.72 | 16.00   |
|           | 1          | 14      | 14.80     | 14.78 | 14.86 | 16.00 |         |
| 16QAM     | 8          | 0       | 14.86     | 14.74 | 14.65 | 16.00 |         |
|           | 8          | 4       | 14.90     | 14.76 | 14.76 | 16.00 |         |
|           | 8          | 7       | 14.81     | 14.79 | 14.83 | 16.00 |         |
|           | 15         | 0       | 14.85     | 14.78 | 14.83 | 16.00 |         |
|           | 1          | 0       | 15.09     | 14.80 | 14.84 | 16.00 |         |



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|------------------|--------|------------|---------|-----------|---------|---------|---------|---------|
|                  |        | 1          | 7       | 15.20     | 15.01   | 14.89   | 16.00   |         |
|                  |        | 1          | 14      | 15.01     | 15.04   | 14.95   | 16.00   |         |
|                  |        | 8          | 0       | 14.79     | 14.81   | 14.64   | 16.00   |         |
|                  |        | 8          | 4       | 14.88     | 14.80   | 14.87   | 16.00   |         |
|                  |        | 8          | 7       | 14.81     | 14.81   | 14.86   | 16.00   |         |
|                  |        | 15         | 0       | 14.80     | 14.82   | 14.87   | 16.00   |         |
|                  | 64QAM  | 1          | 0       | 14.98     | 14.77   | 14.76   | 16.00   |         |
|                  |        | 1          | 7       | 14.94     | 14.80   | 14.98   | 16.00   |         |
|                  |        | 1          | 14      | 14.95     | 14.83   | 14.87   | 16.00   |         |
|                  |        | 8          | 0       | 14.92     | 14.80   | 14.69   | 16.00   |         |
|                  |        | 8          | 4       | 14.90     | 14.84   | 14.75   | 16.00   |         |
|                  |        | 8          | 7       | 14.86     | 14.85   | 14.83   | 16.00   |         |
|                  | 256QAM | 15         | 0       | 14.87     | 14.84   | 14.83   | 16.00   |         |
|                  |        | 1          | 0       | 14.88     | 14.79   | 14.68   | 16.00   |         |
|                  |        | 1          | 7       | 14.91     | 14.85   | 14.87   | 16.00   |         |
|                  |        | 1          | 14      | 14.79     | 14.89   | 14.83   | 16.00   |         |
|                  |        | 8          | 0       | 14.93     | 14.86   | 14.67   | 16.00   |         |
|                  |        | 8          | 4       | 14.93     | 14.78   | 14.87   | 16.00   |         |
|                  | 5MHz   | 8          | 7       | 14.83     | 14.77   | 14.74   | 16.00   |         |
|                  |        | 15         | 0       | 14.81     | 14.78   | 14.74   | 16.00   |         |
| <b>Bandwidth</b> |        | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|                  |        |            |         |           | 19975   | 20175   | 20375   |         |
|                  |        | QPSK       | 1       | 0         | 14.89   | 14.74   | 14.64   | 16.00   |
|                  |        |            | 1       | 13        | 14.87   | 14.81   | 14.79   | 16.00   |
|                  | 1      |            | 24      | 14.92     | 14.69   | 14.77   | 16.00   |         |
|                  | 12     |            | 0       | 14.88     | 14.83   | 14.65   | 16.00   |         |
|                  | 12     |            | 6       | 14.91     | 14.77   | 14.74   | 16.00   |         |
|                  | 12     |            | 13      | 14.83     | 14.82   | 14.87   | 16.00   |         |
|                  | 25     |            | 0       | 14.81     | 14.84   | 14.84   | 16.00   |         |
|                  | 16QAM  | 1          | 0       | 15.13     | 14.86   | 14.80   | 16.00   |         |
|                  |        | 1          | 13      | 15.20     | 15.08   | 14.92   | 16.00   |         |
|                  |        | 1          | 24      | 15.02     | 15.00   | 14.94   | 16.00   |         |
|                  |        | 12         | 0       | 14.81     | 14.78   | 14.67   | 16.00   |         |
|                  |        | 12         | 6       | 14.97     | 14.83   | 14.86   | 16.00   |         |
|                  |        | 12         | 13      | 14.87     | 14.83   | 14.77   | 16.00   |         |
|                  | 64QAM  | 25         | 0       | 14.85     | 14.79   | 14.88   | 16.00   |         |
|                  |        | 1          | 0       | 15.01     | 14.80   | 14.72   | 16.00   |         |
|                  |        | 1          | 13      | 15.03     | 14.84   | 14.89   | 16.00   |         |
|                  |        | 1          | 24      | 14.91     | 14.85   | 14.89   | 16.00   |         |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 20000   | 20175   | 20350   |         |       |
| 10MHz     | 256QAM     | 12      | 0         | 14.81   | 14.74   | 14.78   | 16.00   |       |
|           |            | 12      | 6         | 14.88   | 14.81   | 14.86   | 16.00   |       |
|           |            | 12      | 13        | 14.82   | 14.85   | 14.82   | 16.00   |       |
|           |            | 25      | 0         | 14.86   | 14.80   | 14.75   | 16.00   |       |
|           |            | 1       | 0         | 14.94   | 14.90   | 14.63   | 16.00   |       |
|           |            | 1       | 13        | 14.82   | 14.77   | 14.92   | 16.00   |       |
|           |            | 1       | 24        | 14.83   | 14.98   | 14.91   | 16.00   |       |
|           |            | 12      | 0         | 14.89   | 14.79   | 14.71   | 16.00   |       |
|           | 12         | 6       | 14.88     | 14.77   | 14.78   | 16.00   |         |       |
|           | 12         | 13      | 14.90     | 14.83   | 14.73   | 16.00   |         |       |
|           | 25         | 0       | 14.90     | 14.80   | 14.83   | 16.00   |         |       |
|           | 10MHz      | QPSK    | 1         | 0       | 14.81   | 14.81   | 14.71   | 16.00 |
|           |            |         | 1         | 25      | 14.81   | 14.88   | 14.74   | 16.00 |
|           |            |         | 1         | 49      | 14.89   | 14.77   | 14.81   | 16.00 |
|           |            |         | 25        | 0       | 14.88   | 14.80   | 14.69   | 16.00 |
|           |            |         | 25        | 13      | 14.90   | 14.75   | 14.81   | 16.00 |
|           |            |         | 25        | 25      | 14.92   | 14.81   | 14.78   | 16.00 |
|           |            |         | 50        | 0       | 14.87   | 14.84   | 14.82   | 16.00 |
|           |            | 16QAM   | 1         | 0       | 15.10   | 14.85   | 14.82   | 16.00 |
|           |            |         | 1         | 25      | 15.19   | 15.05   | 14.97   | 16.00 |
|           |            |         | 1         | 49      | 15.01   | 15.03   | 14.89   | 16.00 |
|           |            |         | 25        | 0       | 14.81   | 14.87   | 14.60   | 16.00 |
|           |            |         | 25        | 13      | 14.89   | 14.77   | 14.77   | 16.00 |
|           |            |         | 25        | 25      | 14.84   | 14.90   | 14.83   | 16.00 |
|           |            |         | 50        | 0       | 14.82   | 14.81   | 14.84   | 16.00 |
|           |            | 64QAM   | 1         | 0       | 14.92   | 14.79   | 14.79   | 16.00 |
|           |            |         | 1         | 25      | 15.02   | 14.90   | 14.99   | 16.00 |
|           |            |         | 1         | 49      | 15.01   | 14.85   | 14.92   | 16.00 |
| 25        |            |         | 0         | 14.88   | 14.74   | 14.77   | 16.00   |       |
| 25        |            |         | 13        | 14.88   | 14.76   | 14.86   | 16.00   |       |
| 25        |            |         | 25        | 14.81   | 14.81   | 14.90   | 16.00   |       |
| 50        |            |         | 0         | 14.80   | 14.85   | 14.83   | 16.00   |       |
| 256QAM    |            | 1       | 0         | 14.93   | 14.80   | 14.66   | 16.00   |       |
|           |            | 1       | 25        | 14.87   | 14.77   | 14.87   | 16.00   |       |
|           |            | 1       | 49        | 14.80   | 14.88   | 14.82   | 16.00   |       |
|           |            | 25      | 0         | 14.89   | 14.82   | 14.66   | 16.00   |       |
|           |            | 25      | 13        | 14.83   | 14.84   | 14.82   | 16.00   |       |



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| Bandwidth | Modulation | 25      | 25        | 14.90            | 14.79            | 14.76            | 16.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 50      | 0         | 14.80            | 14.82            | 14.83            | 16.00   |
|           |            | RB size | RB offset | Channel<br>20025 | Channel<br>20175 | Channel<br>20325 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 14.81            | 14.76            | 14.61            | 16.00   |
|           |            | 1       | 38        | 14.91            | 14.89            | 14.81            | 16.00   |
|           |            | 1       | 74        | 14.90            | 14.78            | 14.79            | 16.00   |
|           |            | 36      | 0         | 14.87            | 14.81            | 14.70            | 16.00   |
|           |            | 36      | 18        | 14.83            | 14.77            | 14.78            | 16.00   |
|           |            | 36      | 39        | 14.80            | 14.89            | 14.80            | 16.00   |
|           |            | 75      | 0         | 14.88            | 14.85            | 14.77            | 16.00   |
|           | 16QAM      | 1       | 0         | 15.04            | 14.89            | 14.74            | 16.00   |
|           |            | 1       | 38        | 15.16            | 15.07            | 14.88            | 16.00   |
|           |            | 1       | 74        | 15.08            | 15.08            | 14.90            | 16.00   |
|           |            | 36      | 0         | 14.82            | 14.85            | 14.69            | 16.00   |
|           |            | 36      | 18        | 14.91            | 14.80            | 14.86            | 16.00   |
|           |            | 36      | 39        | 14.88            | 14.89            | 14.88            | 16.00   |
|           |            | 75      | 0         | 14.87            | 14.81            | 14.88            | 16.00   |
|           | 64QAM      | 1       | 0         | 14.89            | 14.85            | 14.82            | 16.00   |
|           |            | 1       | 38        | 14.93            | 14.80            | 14.97            | 16.00   |
|           |            | 1       | 74        | 14.91            | 14.86            | 14.84            | 16.00   |
|           |            | 36      | 0         | 14.83            | 14.75            | 14.67            | 16.00   |
|           |            | 36      | 18        | 14.90            | 14.84            | 14.76            | 16.00   |
|           |            | 36      | 39        | 14.87            | 14.88            | 14.82            | 16.00   |
|           |            | 75      | 0         | 14.87            | 14.84            | 14.81            | 16.00   |
|           | 256QAM     | 1       | 0         | 14.91            | 14.80            | 14.74            | 16.00   |
|           |            | 1       | 38        | 14.90            | 14.84            | 14.93            | 16.00   |
|           |            | 1       | 74        | 14.91            | 15.00            | 14.81            | 16.00   |
| 36        |            | 0       | 14.93     | 14.76            | 14.72            | 16.00            |         |
| 36        |            | 18      | 14.83     | 14.73            | 14.80            | 16.00            |         |
| 36        |            | 39      | 14.90     | 14.83            | 14.82            | 16.00            |         |
| 75        |            | 0       | 14.81     | 14.75            | 14.75            | 16.00            |         |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20050 | Channel<br>20175 | Channel<br>20300 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 14.94            | 14.86            | 14.74            | 16.00   |
|           |            | 1       | 50        | 14.93            | 14.91            | 14.84            | 16.00   |
|           |            | 1       | 99        | 14.93            | 14.79            | 14.88            | 16.00   |
|           |            | 50      | 0         | 14.92            | 14.85            | 14.77            | 16.00   |
|           |            | 50      | 25        | 14.96            | 14.86            | 14.86            | 16.00   |



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|  |        |       |    |       |       |       |       |
|--|--------|-------|----|-------|-------|-------|-------|
|  |        | 50    | 50 | 14.93 | 14.90 | 14.91 | 16.00 |
|  |        | 100   | 0  | 14.89 | 14.89 | 14.85 | 16.00 |
|  | 16QAM  | 1     | 0  | 15.14 | 14.91 | 14.86 | 16.00 |
|  |        | 1     | 50 | 15.24 | 15.11 | 15.00 | 16.00 |
|  |        | 1     | 99 | 15.10 | 15.11 | 14.97 | 16.00 |
|  |        | 50    | 0  | 14.90 | 14.88 | 14.73 | 16.00 |
|  |        | 50    | 25 | 15.00 | 14.89 | 14.88 | 16.00 |
|  |        | 50    | 50 | 14.93 | 14.94 | 14.89 | 16.00 |
|  |        | 100   | 0  | 14.89 | 14.88 | 14.90 | 16.00 |
|  |        | 64QAM | 1  | 0     | 15.02 | 14.87 | 14.83 |
|  | 1      |       | 50 | 15.04 | 14.92 | 15.00 | 16.00 |
|  | 1      |       | 99 | 15.03 | 14.90 | 14.93 | 16.00 |
|  | 50     |       | 0  | 14.94 | 14.87 | 14.79 | 16.00 |
|  | 50     |       | 25 | 15.01 | 14.89 | 14.87 | 16.00 |
|  | 50     |       | 50 | 14.93 | 14.89 | 14.94 | 16.00 |
|  | 100    |       | 0  | 14.89 | 14.89 | 14.84 | 16.00 |
|  | 256QAM | 1     | 0  | 14.99 | 14.92 | 14.75 | 16.00 |
|  |        | 1     | 50 | 14.93 | 14.88 | 14.99 | 16.00 |
|  |        | 1     | 99 | 14.92 | 15.01 | 14.92 | 16.00 |
|  |        | 50    | 0  | 14.94 | 14.88 | 14.77 | 16.00 |
|  |        | 50    | 25 | 14.95 | 14.86 | 14.88 | 16.00 |
|  |        | 50    | 50 | 14.91 | 14.88 | 14.86 | 16.00 |
|  |        | 100   | 0  | 14.92 | 14.88 | 14.87 | 16.00 |

| LTE Band 4 Eci6 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 19.38                | 19.35   | 19.24   | 20.50   |
|                 |            | 1       | 2         | 19.47                | 19.43   | 19.30   | 20.50   |
|                 |            | 1       | 5         | 19.45                | 19.37   | 19.45   | 20.50   |
|                 |            | 3       | 0         | 19.32                | 19.38   | 19.35   | 20.50   |
|                 |            | 3       | 2         | 19.40                | 19.27   | 19.36   | 20.50   |
|                 |            | 3       | 3         | 19.35                | 19.43   | 19.41   | 20.50   |
|                 |            | 6       | 0         | 19.42                | 19.48   | 19.36   | 20.50   |
|                 | 16QAM      | 1       | 0         | 19.63                | 19.49   | 19.40   | 20.50   |
|                 |            | 1       | 2         | 19.77                | 19.58   | 19.45   | 20.50   |
|                 |            | 1       | 5         | 19.59                | 19.67   | 19.48   | 20.50   |
|                 |            | 3       | 0         | 18.89                | 18.86   | 18.70   | 20.50   |



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|       |           | 3          | 2       | 19.07     | 18.95   | 18.83   | 20.50   |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 3          | 3       | 18.83     | 19.00   | 18.91   | 20.50   |         |
|       |           | 6          | 0       | 18.95     | 18.95   | 18.99   | 20.00   |         |
|       |           | 64QAM      | 1       | 0         | 19.03   | 18.78   | 18.91   | 20.00   |
|       |           |            | 1       | 2         | 18.97   | 18.95   | 19.05   | 20.00   |
|       |           |            | 1       | 5         | 19.12   | 18.83   | 19.01   | 20.00   |
|       |           |            | 3       | 0         | 18.80   | 18.73   | 18.57   | 20.00   |
|       |           |            | 3       | 2         | 18.88   | 18.63   | 18.75   | 20.00   |
|       |           |            | 3       | 3         | 18.77   | 18.79   | 18.78   | 20.00   |
|       | 6         |            | 0       | 17.80     | 17.83   | 17.91   | 19.00   |         |
|       | 256QAM    | 1          | 0       | 15.98     | 15.99   | 15.65   | 17.00   |         |
|       |           | 1          | 2       | 16.03     | 15.78   | 16.02   | 17.00   |         |
|       |           | 1          | 5       | 16.02     | 16.06   | 15.99   | 17.00   |         |
|       |           | 3          | 0       | 15.93     | 15.78   | 15.72   | 17.00   |         |
|       |           | 3          | 2       | 16.02     | 15.92   | 15.80   | 17.00   |         |
|       |           | 3          | 3       | 15.95     | 15.92   | 15.81   | 17.00   |         |
|       |           | 6          | 0       | 15.82     | 15.90   | 15.78   | 17.00   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 19965   | 20175   | 20385   |         |
|       | 3MHz      | QPSK       | 1       | 0         | 19.34   | 19.29   | 19.34   | 20.50   |
|       |           |            | 1       | 7         | 19.34   | 19.50   | 19.31   | 20.50   |
| 1     |           |            | 14      | 19.35     | 19.24   | 19.28   | 20.50   |         |
| 8     |           |            | 0       | 19.44     | 19.35   | 19.20   | 20.50   |         |
| 8     |           |            | 4       | 19.47     | 19.27   | 19.37   | 20.50   |         |
| 8     |           |            | 7       | 19.43     | 19.34   | 19.41   | 20.50   |         |
| 15    |           |            | 0       | 19.33     | 19.49   | 19.42   | 20.50   |         |
| 16QAM |           | 1          | 0       | 19.60     | 19.32   | 19.45   | 20.50   |         |
|       |           | 1          | 7       | 19.83     | 19.60   | 19.51   | 20.50   |         |
|       |           | 1          | 14      | 19.64     | 19.56   | 19.45   | 20.50   |         |
|       |           | 8          | 0       | 19.00     | 18.90   | 18.72   | 20.00   |         |
|       |           | 8          | 4       | 19.06     | 18.96   | 18.84   | 20.00   |         |
|       |           | 8          | 7       | 18.98     | 18.92   | 18.94   | 20.00   |         |
|       |           | 15         | 0       | 18.84     | 18.80   | 18.99   | 20.00   |         |
| 64QAM |           | 1          | 0       | 19.00     | 18.93   | 18.73   | 20.00   |         |
|       |           | 1          | 7       | 19.01     | 18.85   | 19.06   | 20.00   |         |
|       |           | 1          | 14      | 19.01     | 18.82   | 18.86   | 20.00   |         |
|       |           | 8          | 0       | 17.96     | 17.78   | 17.77   | 19.00   |         |
|       |           | 8          | 4       | 18.01     | 17.91   | 17.91   | 19.00   |         |
|       |           | 8          | 7       | 17.98     | 17.98   | 18.04   | 19.00   |         |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|-------|
|           |            |         |           | 19975   | 20175   | 20375   |         |       |       |
| 5MHz      | 256QAM     | 15      | 0         | 17.84   | 17.88   | 17.91   | 19.00   |       |       |
|           |            | 1       | 0         | 15.89   | 15.85   | 15.70   | 17.00   |       |       |
|           |            | 1       | 7         | 15.93   | 15.86   | 15.94   | 17.00   |       |       |
|           |            | 1       | 14        | 15.82   | 16.02   | 15.93   | 17.00   |       |       |
|           |            | 8       | 0         | 15.84   | 15.89   | 15.87   | 17.00   |       |       |
|           |            | 8       | 4         | 16.00   | 15.80   | 15.98   | 17.00   |       |       |
|           |            | 8       | 7         | 15.95   | 15.83   | 15.80   | 17.00   |       |       |
|           |            | 15      | 0         | 15.88   | 15.91   | 15.89   | 17.00   |       |       |
|           | QPSK       | 1       | 0         | 19.23   | 19.30   | 19.26   | 20.50   |       |       |
|           |            |         | 13        | 19.44   | 19.33   | 19.27   | 20.50   |       |       |
|           |            |         | 24        | 19.51   | 19.34   | 19.31   | 20.50   |       |       |
|           |            |         | 12        | 0       | 19.48   | 19.33   | 19.21   | 20.50 |       |
|           |            |         | 12        | 6       | 19.56   | 19.28   | 19.45   | 20.50 |       |
|           |            |         | 12        | 13      | 19.33   | 19.36   | 19.36   | 20.50 |       |
|           |            |         | 25        | 0       | 19.38   | 19.48   | 19.37   | 20.50 |       |
|           |            | 16QAM   | 1         | 0       | 19.54   | 19.44   | 19.36   | 20.50 |       |
|           |            |         |           | 13      | 19.67   | 19.60   | 19.44   | 20.50 |       |
|           |            |         |           | 24      | 19.66   | 19.68   | 19.55   | 20.50 |       |
|           |            |         |           | 12      | 0       | 18.95   | 18.86   | 18.63 | 20.00 |
|           |            |         |           | 12      | 6       | 18.95   | 18.90   | 18.87 | 20.00 |
|           |            |         |           | 12      | 13      | 18.83   | 18.96   | 18.84 | 20.00 |
|           |            |         |           | 25      | 0       | 18.84   | 18.95   | 18.97 | 20.00 |
|           |            | 64QAM   | 1         | 0       | 19.01   | 18.89   | 18.73   | 20.00 |       |
|           |            |         |           | 13      | 18.96   | 18.95   | 18.99   | 20.00 |       |
|           |            |         |           | 24      | 19.12   | 18.85   | 18.89   | 20.00 |       |
|           |            |         |           | 12      | 0       | 18.04   | 17.91   | 17.78 | 19.00 |
|           |            |         |           | 12      | 6       | 18.06   | 17.88   | 17.97 | 19.00 |
|           |            |         |           | 12      | 13      | 18.02   | 17.84   | 17.92 | 19.00 |
| 25        |            |         |           | 0       | 17.95   | 17.90   | 17.82   | 19.00 |       |
| 256QAM    |            | 1       | 0         | 15.97   | 15.83   | 15.65   | 17.00   |       |       |
|           |            |         | 13        | 16.00   | 15.85   | 15.97   | 17.00   |       |       |
|           |            |         | 24        | 16.00   | 15.95   | 15.88   | 17.00   |       |       |
|           | 12         |         | 0         | 15.99   | 15.89   | 15.71   | 17.00   |       |       |
|           | 12         |         | 6         | 16.01   | 15.87   | 15.95   | 17.00   |       |       |
|           | 12         |         | 13        | 15.82   | 15.98   | 15.90   | 17.00   |       |       |
|           | 25         |         | 0         | 16.00   | 15.92   | 15.92   | 17.00   |       |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |       |



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| Bandwidth | Modulation | RB size | RB offset | 20000 | 20175 | 20350 | Tune up |       |
|-----------|------------|---------|-----------|-------|-------|-------|---------|-------|
|           |            |         |           | 20025 | 20175 | 20325 |         |       |
| 10MHz     | QPSK       | 1       | 0         | 19.37 | 19.24 | 19.27 | 20.50   |       |
|           |            | 1       | 25        | 19.46 | 19.37 | 19.34 | 20.50   |       |
|           |            | 1       | 49        | 19.44 | 19.36 | 19.48 | 20.50   |       |
|           |            | 25      | 0         | 19.46 | 19.30 | 19.27 | 20.50   |       |
|           |            | 25      | 13        | 19.46 | 19.33 | 19.43 | 20.50   |       |
|           |            | 25      | 25        | 19.45 | 19.45 | 19.41 | 20.50   |       |
|           | 16QAM      | 50      | 0         | 19.32 | 19.36 | 19.45 | 20.50   |       |
|           |            | 1       | 0         | 19.54 | 19.51 | 19.33 | 20.50   |       |
|           |            | 1       | 25        | 19.80 | 19.68 | 19.50 | 20.50   |       |
|           |            | 1       | 49        | 19.60 | 19.66 | 19.37 | 20.50   |       |
|           |            | 25      | 0         | 18.98 | 18.95 | 18.76 | 20.00   |       |
|           |            | 25      | 13        | 19.04 | 18.80 | 18.94 | 20.00   |       |
|           | 64QAM      | 25      | 25        | 18.91 | 18.90 | 18.91 | 20.00   |       |
|           |            | 50      | 0         | 18.91 | 18.91 | 18.96 | 20.00   |       |
|           |            | 1       | 0         | 18.97 | 18.93 | 18.80 | 20.00   |       |
|           |            | 1       | 25        | 19.07 | 19.00 | 19.08 | 20.00   |       |
|           |            | 1       | 49        | 19.06 | 18.83 | 19.02 | 20.00   |       |
|           |            | 25      | 0         | 17.85 | 17.94 | 17.85 | 19.00   |       |
|           | 256QAM     | 25      | 13        | 17.96 | 17.85 | 17.78 | 19.00   |       |
|           |            | 25      | 25        | 18.03 | 17.90 | 17.87 | 19.00   |       |
|           |            | 50      | 0         | 17.82 | 17.81 | 17.78 | 19.00   |       |
|           |            | 1       | 0         | 15.94 | 16.02 | 15.68 | 17.00   |       |
|           |            | 1       | 25        | 15.89 | 15.94 | 16.06 | 17.00   |       |
|           |            | 1       | 49        | 15.95 | 15.95 | 15.89 | 17.00   |       |
|           | 15MHz      | QPSK    | 25        | 0     | 15.84 | 15.79 | 15.82   | 17.00 |
|           |            |         | 25        | 13    | 16.01 | 15.86 | 15.85   | 17.00 |
|           |            |         | 25        | 25    | 16.01 | 15.94 | 15.88   | 17.00 |
|           |            |         | 50        | 0     | 15.98 | 15.93 | 15.79   | 17.00 |
|           |            |         | 1         | 0     | 19.28 | 19.25 | 19.30   | 20.50 |
|           |            |         | 1         | 38    | 19.47 | 19.38 | 19.27   | 20.50 |
| 1         |            |         | 74        | 19.48 | 19.22 | 19.33 | 20.50   |       |
| 16QAM     |            | 36      | 0         | 19.38 | 19.31 | 19.21 | 20.50   |       |
| 16QAM     | 36         | 18      | 19.44     | 19.35 | 19.28 | 20.50 |         |       |
|           | 36         | 39      | 19.42     | 19.31 | 19.32 | 20.50 |         |       |
| 16QAM     | 75         | 0       | 19.49     | 19.34 | 19.25 | 20.50 |         |       |
|           | 1          | 0       | 19.65     | 19.48 | 19.39 | 20.50 |         |       |



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|       |           |            |         |           |         |         |         |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 1          | 38      | 19.70     | 19.52   | 19.55   | 20.50   |         |
|       |           | 1          | 74      | 19.59     | 19.69   | 19.48   | 20.50   |         |
|       |           | 36         | 0       | 18.92     | 18.91   | 18.74   | 20.00   |         |
|       |           | 36         | 18      | 18.99     | 18.99   | 18.91   | 20.00   |         |
|       |           | 36         | 39      | 18.97     | 18.99   | 18.84   | 20.00   |         |
|       |           | 75         | 0       | 18.97     | 18.87   | 18.88   | 20.00   |         |
|       | 64QAM     | 1          | 0       | 19.03     | 18.93   | 18.80   | 20.00   |         |
|       |           | 1          | 38      | 19.00     | 19.02   | 19.05   | 20.00   |         |
|       |           | 1          | 74      | 19.11     | 18.88   | 18.97   | 20.00   |         |
|       |           | 36         | 0       | 18.02     | 17.97   | 17.81   | 19.00   |         |
|       |           | 36         | 18      | 18.08     | 17.87   | 17.83   | 19.00   |         |
|       |           | 36         | 39      | 17.92     | 17.98   | 17.96   | 19.00   |         |
|       | 256QAM    | 75         | 0       | 17.91     | 17.93   | 17.83   | 19.00   |         |
|       |           | 1          | 0       | 15.98     | 15.84   | 15.67   | 17.00   |         |
|       |           | 1          | 38      | 16.00     | 15.87   | 15.95   | 17.00   |         |
|       |           | 1          | 74      | 15.82     | 15.93   | 15.88   | 17.00   |         |
|       |           | 36         | 0       | 15.85     | 15.89   | 15.68   | 17.00   |         |
|       |           | 36         | 18      | 15.93     | 15.86   | 15.78   | 17.00   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 20050   | 20175   | 20300   |         |
|       | 20MHz     | QPSK       | 1       | 0         | 19.33   | 19.32   | 19.30   | 20.50   |
| 1     |           |            | 50      | 19.43     | 19.41   | 19.34   | 20.50   |         |
| 1     |           |            | 99      | 19.43     | 19.29   | 19.38   | 20.50   |         |
| 50    |           |            | 0       | 19.42     | 19.35   | 19.27   | 20.50   |         |
| 50    |           |            | 25      | 19.46     | 19.36   | 19.36   | 20.50   |         |
| 50    |           |            | 50      | 19.43     | 19.40   | 19.41   | 20.50   |         |
| 16QAM |           | 100        | 0       | 19.39     | 19.39   | 19.35   | 20.50   |         |
|       |           | 1          | 0       | 19.64     | 19.41   | 19.36   | 20.50   |         |
|       |           | 1          | 50      | 19.74     | 19.61   | 19.50   | 20.50   |         |
|       |           | 1          | 99      | 19.60     | 19.61   | 19.47   | 20.50   |         |
|       |           | 50         | 0       | 18.90     | 18.88   | 18.73   | 20.00   |         |
|       |           | 50         | 25      | 19.00     | 18.89   | 18.88   | 20.00   |         |
| 64QAM |           | 50         | 50      | 18.93     | 18.94   | 18.89   | 20.00   |         |
|       |           | 100        | 0       | 18.89     | 18.88   | 18.90   | 20.00   |         |
|       |           | 1          | 0       | 19.02     | 18.87   | 18.83   | 20.00   |         |
|       |           | 1          | 50      | 19.04     | 18.92   | 19.00   | 20.00   |         |
|       |           | 1          | 99      | 19.03     | 18.90   | 18.93   | 20.00   |         |



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|        |     |    |       |       |       |       |
|--------|-----|----|-------|-------|-------|-------|
| 256QAM | 50  | 0  | 17.94 | 17.87 | 17.79 | 19.00 |
|        | 50  | 25 | 18.01 | 17.89 | 17.87 | 19.00 |
|        | 50  | 50 | 17.93 | 17.89 | 17.94 | 19.00 |
|        | 100 | 0  | 17.89 | 17.89 | 17.84 | 19.00 |
|        | 1   | 0  | 15.99 | 15.92 | 15.75 | 17.00 |
|        | 1   | 50 | 15.93 | 15.88 | 15.99 | 17.00 |
|        | 1   | 99 | 15.92 | 16.01 | 15.92 | 17.00 |
|        | 50  | 0  | 15.94 | 15.88 | 15.77 | 17.00 |
|        | 50  | 25 | 15.95 | 15.86 | 15.88 | 17.00 |
|        | 50  | 50 | 15.91 | 15.88 | 15.86 | 17.00 |
|        | 100 | 0  | 15.92 | 15.88 | 15.87 | 17.00 |

| LTE Band 5 Eci2/4 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz            | QPSK       | 1       | 0         | 22.38                | 22.20   | 22.21   | 23.50   |
|                   |            | 1       | 2         | 22.29                | 22.27   | 22.22   | 23.50   |
|                   |            | 1       | 5         | 22.42                | 22.28   | 22.14   | 23.50   |
|                   |            | 3       | 0         | 22.53                | 22.34   | 22.33   | 23.50   |
|                   |            | 3       | 2         | 22.39                | 22.21   | 22.26   | 23.50   |
|                   |            | 3       | 3         | 22.44                | 22.20   | 22.38   | 23.50   |
|                   |            | 6       | 0         | 21.33                | 21.27   | 21.25   | 22.50   |
|                   | 16QAM      | 1       | 0         | 21.59                | 21.30   | 21.32   | 22.50   |
|                   |            | 1       | 2         | 21.48                | 21.46   | 21.43   | 22.50   |
|                   |            | 1       | 5         | 21.48                | 21.32   | 21.34   | 22.50   |
|                   |            | 3       | 0         | 21.44                | 21.15   | 21.18   | 22.50   |
|                   |            | 3       | 2         | 21.29                | 21.27   | 21.27   | 22.50   |
|                   |            | 3       | 3         | 21.44                | 21.35   | 21.32   | 22.50   |
|                   |            | 6       | 0         | 20.50                | 20.18   | 20.35   | 21.50   |
|                   | 64QAM      | 1       | 0         | 20.25                | 20.24   | 20.34   | 21.50   |
|                   |            | 1       | 2         | 20.48                | 20.23   | 20.37   | 21.50   |
|                   |            | 1       | 5         | 20.42                | 20.33   | 20.37   | 21.50   |
|                   |            | 3       | 0         | 20.16                | 20.16   | 20.24   | 21.50   |
|                   |            | 3       | 2         | 20.30                | 20.29   | 20.18   | 21.50   |
|                   |            | 3       | 3         | 20.28                | 20.21   | 20.22   | 21.50   |
|                   |            | 6       | 0         | 19.25                | 19.28   | 19.20   | 20.50   |
|                   | 256QAM     | 1       | 0         | 17.44                | 17.60   | 17.62   | 18.50   |
|                   |            | 1       | 2         | 17.40                | 17.46   | 17.56   | 18.50   |



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|-----------|------------|------------|-----------|-----------|---------|---------|---------|---------|
|           |            |            |           | 20415     | 20525   | 20635   |         |         |
| 3MHz      | QPSK       | 1          | 5         | 17.50     | 17.44   | 17.34   | 18.50   |         |
|           |            | 3          | 0         | 17.40     | 17.40   | 17.38   | 18.50   |         |
|           |            | 3          | 2         | 17.32     | 17.44   | 17.30   | 18.50   |         |
|           |            | 3          | 3         | 17.44     | 17.42   | 17.30   | 18.50   |         |
|           |            | 6          | 0         | 17.34     | 17.26   | 17.25   | 18.50   |         |
|           |            | 15         | 0         | 21.39     | 21.24   | 21.31   | 22.50   |         |
|           | 16QAM      | 1          | 0         | 21.69     | 21.29   | 21.48   | 22.50   |         |
|           |            | 1          | 7         | 21.37     | 21.34   | 21.34   | 22.50   |         |
|           |            | 1          | 14        | 21.58     | 21.42   | 21.41   | 22.50   |         |
|           |            | 8          | 0         | 20.47     | 20.20   | 20.32   | 21.50   |         |
|           |            | 8          | 4         | 20.46     | 20.34   | 20.19   | 21.50   |         |
|           |            | 8          | 7         | 20.44     | 20.30   | 20.21   | 21.50   |         |
|           | 64QAM      | 1          | 0         | 20.31     | 20.26   | 20.33   | 21.50   |         |
|           |            | 1          | 0         | 20.34     | 20.24   | 20.34   | 21.50   |         |
|           |            | 1          | 7         | 20.44     | 20.23   | 20.25   | 21.50   |         |
|           |            | 1          | 14        | 20.32     | 20.45   | 20.32   | 21.50   |         |
|           |            | 8          | 0         | 19.17     | 19.18   | 19.34   | 20.50   |         |
|           |            | 8          | 4         | 19.26     | 19.28   | 19.12   | 20.50   |         |
|           | 256QAM     | 8          | 7         | 19.26     | 19.18   | 19.30   | 20.50   |         |
|           |            | 15         | 0         | 19.21     | 19.24   | 19.30   | 20.50   |         |
|           |            | 1          | 0         | 17.42     | 17.55   | 17.48   | 18.50   |         |
|           |            | 1          | 7         | 17.38     | 17.52   | 17.52   | 18.50   |         |
|           |            | 1          | 14        | 17.36     | 17.54   | 17.35   | 18.50   |         |
|           |            | 8          | 0         | 17.34     | 17.42   | 17.27   | 18.50   |         |
|           | 5MHz       | QPSK       | 8         | 4         | 17.39   | 17.39   | 17.36   | 18.50   |
|           |            |            | 8         | 7         | 17.44   | 17.35   | 17.29   | 18.50   |
|           | Bandwidth  | Modulation | RB size   | RB offset | Channel | Channel | Channel | Tune up |
|           |            |            |           |           | 20425   | 20525   | 20625   |         |
| 5MHz      | QPSK       | 1          | 0         | 22.32     | 22.25   | 22.20   | 23.50   |         |
|           |            | 1          | 13        | 22.47     | 22.25   | 22.22   | 23.50   |         |



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|       |           |            |         |           |         |         |         |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 1          | 24      | 22.42     | 22.21   | 22.33   | 23.50   |         |
|       |           | 12         | 0       | 21.54     | 21.35   | 21.20   | 22.50   |         |
|       |           | 12         | 6       | 21.40     | 21.20   | 21.25   | 22.50   |         |
|       |           | 12         | 13      | 21.42     | 21.24   | 21.36   | 22.50   |         |
|       |           | 25         | 0       | 21.48     | 21.18   | 21.31   | 22.50   |         |
|       | 16QAM     | 1          | 0       | 21.75     | 21.38   | 21.48   | 22.50   |         |
|       |           | 1          | 13      | 21.40     | 21.33   | 21.39   | 22.50   |         |
|       |           | 1          | 24      | 21.68     | 21.38   | 21.46   | 22.50   |         |
|       |           | 12         | 0       | 20.53     | 20.31   | 20.19   | 21.50   |         |
|       |           | 12         | 6       | 20.37     | 20.30   | 20.18   | 21.50   |         |
|       |           | 12         | 13      | 20.31     | 20.30   | 20.20   | 21.50   |         |
|       | 64QAM     | 25         | 0       | 20.41     | 20.35   | 20.37   | 21.50   |         |
|       |           | 1          | 0       | 20.35     | 20.21   | 20.35   | 21.50   |         |
|       |           | 1          | 13      | 20.34     | 20.22   | 20.22   | 21.50   |         |
|       |           | 1          | 24      | 20.41     | 20.45   | 20.22   | 21.50   |         |
|       |           | 12         | 0       | 19.25     | 19.27   | 19.34   | 20.50   |         |
|       |           | 12         | 6       | 19.26     | 19.15   | 19.30   | 20.50   |         |
|       |           | 12         | 13      | 19.32     | 19.30   | 19.36   | 20.50   |         |
|       | 256QAM    | 25         | 0       | 19.18     | 19.18   | 19.21   | 20.50   |         |
|       |           | 1          | 0       | 17.32     | 17.58   | 17.56   | 18.50   |         |
|       |           | 1          | 13      | 17.37     | 17.62   | 17.41   | 18.50   |         |
|       |           | 1          | 24      | 17.51     | 17.41   | 17.49   | 18.50   |         |
|       |           | 12         | 0       | 17.45     | 17.33   | 17.29   | 18.50   |         |
|       |           | 12         | 6       | 17.33     | 17.45   | 17.41   | 18.50   |         |
|       |           | 12         | 13      | 17.39     | 17.26   | 17.35   | 18.50   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 20450   | 20525   | 20600   |         |
|       | 10MHz     | QPSK       | 1       | 0         | 22.29   | 22.19   | 22.22   | 23.50   |
| 1     |           |            | 25      | 22.37     | 22.20   | 22.19   | 23.50   |         |
| 1     |           |            | 49      | 22.34     | 22.22   | 22.24   | 23.50   |         |
| 25    |           |            | 0       | 21.47     | 21.27   | 21.29   | 22.50   |         |
| 25    |           |            | 13      | 21.38     | 21.26   | 21.27   | 22.50   |         |
| 25    |           |            | 25      | 21.38     | 21.26   | 21.29   | 22.50   |         |
| 50    |           |            | 0       | 21.43     | 21.26   | 21.29   | 22.50   |         |
| 16QAM |           | 1          | 0       | 21.65     | 21.34   | 21.42   | 22.50   |         |
|       |           | 1          | 25      | 21.47     | 21.38   | 21.37   | 22.50   |         |
|       |           | 1          | 49      | 21.58     | 21.41   | 21.39   | 22.50   |         |
|       |           | 25         | 0       | 20.43     | 20.25   | 20.25   | 21.50   |         |



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|    |        |    |       |       |       |       |       |
|----|--------|----|-------|-------|-------|-------|-------|
|    |        | 25 | 13    | 20.37 | 20.25 | 20.24 | 21.50 |
|    |        | 25 | 25    | 20.37 | 20.25 | 20.29 | 21.50 |
|    |        | 50 | 0     | 20.41 | 20.27 | 20.27 | 21.50 |
|    | 64QAM  | 1  | 0     | 20.33 | 20.28 | 20.34 | 21.50 |
|    |        | 1  | 25    | 20.40 | 20.31 | 20.32 | 21.50 |
|    |        | 1  | 49    | 20.42 | 20.38 | 20.31 | 21.50 |
|    |        | 25 | 0     | 19.21 | 19.24 | 19.28 | 20.50 |
|    |        | 25 | 13    | 19.21 | 19.25 | 19.20 | 20.50 |
|    |        | 25 | 25    | 19.26 | 19.24 | 19.27 | 20.50 |
|    |        | 50 | 0     | 19.22 | 19.27 | 19.26 | 20.50 |
|    | 256QAM | 1  | 0     | 17.39 | 17.52 | 17.52 | 18.50 |
|    |        | 1  | 25    | 17.42 | 17.52 | 17.51 | 18.50 |
|    |        | 1  | 49    | 17.44 | 17.46 | 17.43 | 18.50 |
|    |        | 25 | 0     | 17.36 | 17.35 | 17.32 | 18.50 |
|    |        | 25 | 13    | 17.36 | 17.35 | 17.34 | 18.50 |
| 25 |        | 25 | 17.39 | 17.36 | 17.35 | 18.50 |       |
| 50 |        | 0  | 17.37 | 17.36 | 17.34 | 18.50 |       |

| LTE Band 5 Eci3/7/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz              | QPSK       | 1       | 0         | 20.55                | 20.69   | 20.63   | 22.00   |
|                     |            | 1       | 2         | 20.62                | 20.72   | 20.56   | 22.00   |
|                     |            | 1       | 5         | 20.72                | 20.57   | 20.61   | 22.00   |
|                     |            | 3       | 0         | 20.77                | 20.66   | 20.73   | 22.00   |
|                     |            | 3       | 2         | 20.66                | 20.63   | 20.63   | 22.00   |
|                     |            | 3       | 3         | 20.84                | 20.58   | 20.70   | 22.00   |
|                     | 16QAM      | 6       | 0         | 20.89                | 20.69   | 20.51   | 22.00   |
|                     |            | 1       | 0         | 20.87                | 20.64   | 20.71   | 22.00   |
|                     |            | 1       | 2         | 20.57                | 20.74   | 20.74   | 22.00   |
|                     |            | 1       | 5         | 20.84                | 20.73   | 20.59   | 22.00   |
|                     |            | 3       | 0         | 20.88                | 20.69   | 20.55   | 22.00   |
|                     |            | 3       | 2         | 20.95                | 20.75   | 20.53   | 22.00   |
|                     | 64QAM      | 3       | 3         | 20.82                | 20.56   | 20.54   | 22.00   |
|                     |            | 6       | 0         | 20.32                | 20.14   | 20.03   | 21.50   |
|                     |            | 1       | 0         | 20.24                | 20.32   | 20.30   | 21.50   |
|                     |            | 1       | 2         | 20.44                | 20.19   | 20.07   | 21.50   |



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|      |        | 1         | 5          | 20.34   | 20.16     | 20.08   | 21.50   |         |         |
|------|--------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|      |        | 3         | 0          | 20.41   | 20.14     | 19.97   | 21.50   |         |         |
|      |        | 3         | 2          | 20.20   | 19.91     | 19.94   | 21.50   |         |         |
|      |        | 3         | 3          | 20.21   | 20.20     | 19.86   | 21.50   |         |         |
|      |        | 6         | 0          | 19.51   | 19.29     | 19.14   | 20.50   |         |         |
|      |        | 256QAM    | 1          | 0       | 17.37     | 17.42   | 17.49   | 18.50   |         |
|      |        |           | 1          | 2       | 17.59     | 17.44   | 17.12   | 18.50   |         |
|      |        |           | 1          | 5       | 17.62     | 17.40   | 17.22   | 18.50   |         |
|      |        |           | 3          | 0       | 17.57     | 17.39   | 17.16   | 18.50   |         |
|      |        |           | 3          | 2       | 17.60     | 17.37   | 17.12   | 18.50   |         |
|      |        |           | 3          | 3       | 17.59     | 17.48   | 17.24   | 18.50   |         |
|      |        | 6         | 0          | 17.55   | 17.33     | 17.14   | 18.50   |         |         |
|      |        | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|      |        |           |            |         |           | 20415   | 20525   | 20635   |         |
| 3MHz | QPSK   | 1         | 0          | 20.99   | 20.77     | 20.74   | 22.00   |         |         |
|      |        | 1         | 7          | 21.10   | 20.71     | 20.73   | 22.00   |         |         |
|      |        | 1         | 14         | 20.91   | 20.67     | 20.57   | 22.00   |         |         |
|      |        | 8         | 0          | 20.97   | 20.77     | 20.58   | 22.00   |         |         |
|      |        | 8         | 4          | 20.93   | 20.80     | 20.65   | 22.00   |         |         |
|      |        | 8         | 7          | 20.99   | 20.68     | 20.61   | 22.00   |         |         |
|      |        | 15        | 0          | 20.94   | 20.75     | 20.62   | 22.00   |         |         |
|      | 16QAM  | 1         | 0          | 21.23   | 21.01     | 20.87   | 22.00   |         |         |
|      |        | 1         | 7          | 21.35   | 20.98     | 20.81   | 22.00   |         |         |
|      |        | 1         | 14         | 20.94   | 20.86     | 20.90   | 22.00   |         |         |
|      |        | 8         | 0          | 20.28   | 20.36     | 20.22   | 21.50   |         |         |
|      |        | 8         | 4          | 20.37   | 20.27     | 20.20   | 21.50   |         |         |
|      |        | 8         | 7          | 20.39   | 20.24     | 20.23   | 21.50   |         |         |
|      |        | 15        | 0          | 20.44   | 20.26     | 20.29   | 21.50   |         |         |
|      | 64QAM  | 1         | 0          | 20.62   | 20.37     | 20.52   | 21.50   |         |         |
|      |        | 1         | 7          | 20.21   | 20.36     | 20.27   | 21.50   |         |         |
|      |        | 1         | 14         | 20.45   | 20.29     | 20.22   | 21.50   |         |         |
|      |        | 8         | 0          | 19.54   | 19.40     | 19.37   | 20.50   |         |         |
|      |        | 8         | 4          | 19.52   | 19.44     | 19.36   | 20.50   |         |         |
|      |        | 8         | 7          | 19.54   | 19.37     | 19.39   | 20.50   |         |         |
|      |        | 15        | 0          | 19.61   | 19.46     | 19.32   | 20.50   |         |         |
|      | 256QAM | 1         | 0          | 17.40   | 17.63     | 17.14   | 18.50   |         |         |
|      |        | 1         | 7          | 17.57   | 17.56     | 17.44   | 18.50   |         |         |
|      |        | 1         | 14         | 17.63   | 17.49     | 17.31   | 18.50   |         |         |
|      |        | 8         | 0          | 17.52   | 17.45     | 17.33   | 18.50   |         |         |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 20425   | 20525   | 20625   |         |       |
| 5MHz      |            | 8       | 4         | 17.47   | 17.42   | 17.28   | 18.50   |       |
|           |            | 8       | 7         | 17.48   | 17.31   | 17.29   | 18.50   |       |
|           |            | 15      | 0         | 17.59   | 17.40   | 17.37   | 18.50   |       |
|           | QPSK       | 1       | 0         | 21.05   | 20.69   | 20.68   | 22.00   |       |
|           |            | 1       | 13        | 21.00   | 20.67   | 20.66   | 22.00   |       |
|           |            | 1       | 24        | 20.96   | 20.70   | 20.59   | 22.00   |       |
|           |            | 12      | 0         | 21.01   | 20.78   | 20.55   | 22.00   |       |
|           |            | 12      | 6         | 20.94   | 20.84   | 20.64   | 22.00   |       |
|           |            | 12      | 13        | 20.96   | 20.73   | 20.65   | 22.00   |       |
|           |            | 25      | 0         | 20.91   | 20.74   | 20.65   | 22.00   |       |
|           |            | 16QAM   | 1         | 0       | 21.26   | 21.03   | 20.98   | 22.00 |
|           |            |         | 1         | 13      | 21.35   | 20.99   | 20.83   | 22.00 |
|           |            |         | 1         | 24      | 21.01   | 20.79   | 20.89   | 22.00 |
|           |            |         | 12        | 0       | 20.28   | 20.30   | 20.26   | 21.50 |
|           |            |         | 12        | 6       | 20.35   | 20.25   | 20.17   | 21.50 |
|           |            |         | 12        | 13      | 20.44   | 20.31   | 20.21   | 21.50 |
|           |            |         | 25        | 0       | 20.41   | 20.37   | 20.24   | 21.50 |
|           |            | 64QAM   | 1         | 0       | 20.63   | 20.37   | 20.58   | 21.50 |
|           |            |         | 1         | 13      | 20.22   | 20.33   | 20.34   | 21.50 |
|           |            |         | 1         | 24      | 20.34   | 20.35   | 20.16   | 21.50 |
|           |            |         | 12        | 0       | 19.55   | 19.45   | 19.39   | 20.50 |
|           |            |         | 12        | 6       | 19.59   | 19.41   | 19.31   | 20.50 |
|           |            |         | 12        | 13      | 19.52   | 19.45   | 19.35   | 20.50 |
|           |            |         | 25        | 0       | 19.56   | 19.38   | 19.40   | 20.50 |
|           | 256QAM     | 1       | 0         | 17.37   | 17.61   | 17.13   | 18.50   |       |
|           |            | 1       | 13        | 17.64   | 17.52   | 17.45   | 18.50   |       |
|           |            | 1       | 24        | 17.54   | 17.48   | 17.39   | 18.50   |       |
| 12        |            | 0       | 17.63     | 17.38   | 17.30   | 18.50   |         |       |
| 12        |            | 6       | 17.53     | 17.47   | 17.37   | 18.50   |         |       |
| 12        |            | 13      | 17.54     | 17.37   | 17.25   | 18.50   |         |       |
| 25        |            | 0       | 17.50     | 17.37   | 17.36   | 18.50   |         |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|           |            |         |           | 20450   | 20525   | 20600   |         |       |
| 10MHz     | QPSK       | 1       | 0         | 20.98   | 20.65   | 20.66   | 22.00   |       |
|           |            | 1       | 25        | 20.99   | 20.63   | 20.65   | 22.00   |       |
|           |            | 1       | 49        | 20.84   | 20.64   | 20.51   | 22.00   |       |
|           |            | 25      | 0         | 20.95   | 20.76   | 20.53   | 22.00   |       |



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|  |        |    |    |       |       |       |       |
|--|--------|----|----|-------|-------|-------|-------|
|  |        | 25 | 13 | 20.89 | 20.73 | 20.56 | 22.00 |
|  |        | 25 | 25 | 20.92 | 20.66 | 20.56 | 22.00 |
|  |        | 50 | 0  | 20.90 | 20.72 | 20.61 | 22.00 |
|  | 16QAM  | 1  | 0  | 21.17 | 20.92 | 20.86 | 22.00 |
|  |        | 1  | 25 | 21.23 | 20.89 | 20.79 | 22.00 |
|  |        | 1  | 49 | 20.93 | 20.78 | 20.80 | 22.00 |
|  |        | 25 | 0  | 20.27 | 20.26 | 20.21 | 21.50 |
|  |        | 25 | 13 | 20.34 | 20.24 | 20.16 | 21.50 |
|  |        | 25 | 25 | 20.36 | 20.21 | 20.16 | 21.50 |
|  |        | 50 | 0  | 20.37 | 20.25 | 20.19 | 21.50 |
|  | 64QAM  | 1  | 0  | 20.59 | 20.33 | 20.46 | 21.50 |
|  |        | 1  | 25 | 20.14 | 20.28 | 20.24 | 21.50 |
|  |        | 1  | 49 | 20.33 | 20.23 | 20.14 | 21.50 |
|  |        | 25 | 0  | 19.52 | 19.38 | 19.31 | 20.50 |
|  |        | 25 | 13 | 19.48 | 19.35 | 19.27 | 20.50 |
|  |        | 25 | 25 | 19.46 | 19.34 | 19.27 | 20.50 |
|  |        | 50 | 0  | 19.50 | 19.36 | 19.28 | 20.50 |
|  | 256QAM | 1  | 0  | 17.29 | 17.51 | 17.06 | 18.50 |
|  |        | 1  | 25 | 17.54 | 17.48 | 17.36 | 18.50 |
|  |        | 1  | 49 | 17.51 | 17.39 | 17.27 | 18.50 |
|  |        | 25 | 0  | 17.51 | 17.36 | 17.21 | 18.50 |
|  |        | 25 | 13 | 17.46 | 17.37 | 17.25 | 18.50 |
|  |        | 25 | 25 | 17.45 | 17.26 | 17.23 | 18.50 |
|  |        | 50 | 0  | 17.47 | 17.32 | 17.25 | 18.50 |

| LTE Band 7 Eci2/4 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz              | QPSK       | 1       | 0         | 21.26                | 21.24   | 21.28   | 22.50   |
|                   |            | 1       | 13        | 21.23                | 21.13   | 21.29   | 22.50   |
|                   |            | 1       | 24        | 21.45                | 21.25   | 21.13   | 22.50   |
|                   |            | 12      | 0         | 20.38                | 20.25   | 20.37   | 21.50   |
|                   |            | 12      | 6         | 20.24                | 20.35   | 20.31   | 21.50   |
|                   |            | 12      | 13        | 20.27                | 20.32   | 20.37   | 21.50   |
|                   |            | 25      | 0         | 20.51                | 20.39   | 20.28   | 21.50   |
|                   | 16QAM      | 1       | 0         | 20.80                | 20.36   | 20.48   | 21.50   |
|                   |            | 1       | 13        | 20.62                | 20.32   | 20.27   | 21.50   |
|                   |            | 1       | 24        | 20.54                | 20.40   | 20.53   | 21.50   |



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|           |            | 12      | 0         | 19.54   | 19.33   | 19.32   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 6         | 19.32   | 19.39   | 19.13   | 20.50   |
|           |            | 12      | 13        | 19.39   | 19.40   | 19.27   | 20.50   |
|           |            | 25      | 0         | 19.30   | 19.21   | 19.14   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.40   | 19.36   | 19.26   | 20.50   |
|           |            | 1       | 13        | 19.41   | 19.27   | 19.40   | 20.50   |
|           |            | 1       | 24        | 19.43   | 19.37   | 19.23   | 20.50   |
|           |            | 12      | 0         | 18.10   | 18.11   | 18.37   | 19.50   |
|           |            | 12      | 6         | 18.27   | 18.17   | 18.12   | 19.50   |
|           |            | 12      | 13        | 18.37   | 18.32   | 18.25   | 19.50   |
|           |            | 25      | 0         | 18.08   | 18.28   | 18.37   | 19.50   |
|           | 256QAM     | 1       | 0         | 16.51   | 16.53   | 16.54   | 17.50   |
|           |            | 1       | 13        | 16.49   | 16.57   | 16.39   | 17.50   |
|           |            | 1       | 24        | 16.41   | 16.33   | 16.54   | 17.50   |
|           |            | 12      | 0         | 16.35   | 16.20   | 16.38   | 17.50   |
|           |            | 12      | 6         | 16.43   | 16.34   | 16.29   | 17.50   |
|           |            | 12      | 13        | 16.49   | 16.47   | 16.23   | 17.50   |
|           |            | 25      | 0         | 16.36   | 16.27   | 16.44   | 17.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20800   | 21100   | 21400   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.14   | 21.18   | 21.37   | 22.50   |
|           |            | 1       | 25        | 21.49   | 21.23   | 21.12   | 22.50   |
|           |            | 1       | 49        | 21.32   | 21.13   | 21.21   | 22.50   |
|           |            | 25      | 0         | 20.56   | 20.40   | 20.26   | 21.50   |
|           |            | 25      | 13        | 20.45   | 20.32   | 20.33   | 21.50   |
|           |            | 25      | 25        | 20.46   | 20.41   | 20.15   | 21.50   |
|           |            | 50      | 0         | 20.32   | 20.30   | 20.24   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.75   | 20.31   | 20.39   | 21.50   |
|           |            | 1       | 25        | 20.41   | 20.48   | 20.48   | 21.50   |
|           |            | 1       | 49        | 20.44   | 20.55   | 20.48   | 21.50   |
|           |            | 25      | 0         | 19.28   | 19.14   | 19.14   | 20.50   |
|           |            | 25      | 13        | 19.25   | 19.11   | 19.29   | 20.50   |
|           |            | 25      | 25        | 19.51   | 19.19   | 19.41   | 20.50   |
|           |            | 50      | 0         | 19.38   | 19.28   | 19.42   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.24   | 19.28   | 19.36   | 20.50   |
|           |            | 1       | 25        | 19.25   | 19.17   | 19.20   | 20.50   |
|           |            | 1       | 49        | 19.39   | 19.27   | 19.27   | 20.50   |
|           |            | 25      | 0         | 18.26   | 18.27   | 18.18   | 19.50   |
|           |            | 25      | 13        | 18.28   | 18.38   | 18.08   | 19.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 20825   | 21100   | 21375   |         |       |
| 15MHz     | 256QAM     | 25      | 25        | 18.12   | 18.25   | 18.16   | 19.50   |       |
|           |            | 50      | 0         | 18.20   | 18.40   | 18.28   | 19.50   |       |
|           |            | 1       | 0         | 16.49   | 16.40   | 16.67   | 17.50   |       |
|           |            | 1       | 25        | 16.54   | 16.61   | 16.39   | 17.50   |       |
|           |            | 1       | 49        | 16.48   | 16.35   | 16.49   | 17.50   |       |
|           |            | 25      | 0         | 16.28   | 16.37   | 16.24   | 17.50   |       |
|           |            | 25      | 13        | 16.50   | 16.28   | 16.44   | 17.50   |       |
|           |            | 25      | 25        | 16.29   | 16.30   | 16.27   | 17.50   |       |
|           |            | 50      | 0         | 16.26   | 16.42   | 16.44   | 17.50   |       |
|           | QPSK       | 1       | 0         | 21.25   | 21.34   | 21.09   | 22.50   |       |
|           |            | 1       | 38        | 21.46   | 21.22   | 21.14   | 22.50   |       |
|           |            | 1       | 74        | 21.47   | 21.10   | 21.23   | 22.50   |       |
|           |            | 36      | 0         | 20.37   | 20.35   | 20.33   | 21.50   |       |
|           |            | 36      | 18        | 20.48   | 20.35   | 20.25   | 21.50   |       |
|           |            | 36      | 39        | 20.43   | 20.19   | 20.38   | 21.50   |       |
|           |            | 75      | 0         | 20.29   | 20.36   | 20.15   | 21.50   |       |
|           |            | 16QAM   | 1         | 0       | 20.70   | 20.49   | 20.45   | 21.50 |
|           |            |         | 1         | 38      | 20.44   | 20.48   | 20.22   | 21.50 |
|           |            |         | 1         | 74      | 20.52   | 20.33   | 20.41   | 21.50 |
|           |            |         | 36        | 0       | 19.28   | 19.31   | 19.33   | 20.50 |
|           |            |         | 36        | 18      | 19.42   | 19.13   | 19.30   | 20.50 |
|           |            |         | 36        | 39      | 19.28   | 19.24   | 19.44   | 20.50 |
|           |            | 64QAM   | 75        | 0       | 19.38   | 19.18   | 19.26   | 20.50 |
|           |            |         | 1         | 0       | 19.26   | 19.15   | 19.49   | 20.50 |
|           |            |         | 1         | 38      | 19.47   | 19.45   | 19.42   | 20.50 |
|           |            |         | 1         | 74      | 19.55   | 19.34   | 19.37   | 20.50 |
|           |            |         | 36        | 0       | 18.33   | 18.15   | 18.27   | 19.50 |
|           |            |         | 36        | 18      | 18.16   | 18.40   | 18.09   | 19.50 |
|           |            |         | 36        | 39      | 18.19   | 18.37   | 18.41   | 19.50 |
|           |            | 256QAM  | 75        | 0       | 18.13   | 18.28   | 18.22   | 19.50 |
|           |            |         | 1         | 0       | 16.49   | 16.64   | 16.62   | 17.50 |
|           |            |         | 1         | 38      | 16.50   | 16.66   | 16.57   | 17.50 |
|           |            |         | 1         | 74      | 16.31   | 16.45   | 16.30   | 17.50 |
|           |            |         | 36        | 0       | 16.34   | 16.36   | 16.23   | 17.50 |
|           |            |         | 36        | 18      | 16.51   | 16.24   | 16.47   | 17.50 |
|           |            |         | 36        | 39      | 16.44   | 16.29   | 16.29   | 17.50 |
| 75        | 0          | 16.31   | 16.40     | 16.48   | 17.50   |         |         |       |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 21.39   | 21.12   | 21.11   | 22.50   |
|           |            | 1       | 50        | 21.50   | 21.13   | 21.26   | 22.50   |
|           |            | 1       | 99        | 21.32   | 21.14   | 21.10   | 22.50   |
|           |            | 50      | 0         | 20.35   | 20.14   | 20.30   | 21.50   |
|           |            | 50      | 25        | 20.26   | 20.26   | 20.42   | 21.50   |
|           |            | 50      | 50        | 20.52   | 20.11   | 20.25   | 21.50   |
|           |            | 100     | 0         | 20.58   | 20.31   | 20.32   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.53   | 20.40   | 20.39   | 21.50   |
|           |            | 1       | 50        | 20.40   | 20.31   | 20.31   | 21.50   |
|           |            | 1       | 99        | 20.60   | 20.33   | 20.46   | 21.50   |
|           |            | 50      | 0         | 19.53   | 19.34   | 19.22   | 20.50   |
|           |            | 50      | 25        | 19.22   | 19.29   | 19.10   | 20.50   |
|           |            | 50      | 50        | 19.44   | 19.22   | 19.30   | 20.50   |
|           |            | 100     | 0         | 19.48   | 19.18   | 19.35   | 20.50   |
|           | 64QAM      | 1       | 0         | 19.29   | 19.17   | 19.22   | 20.50   |
|           |            | 1       | 50        | 19.44   | 19.21   | 19.25   | 20.50   |
|           |            | 1       | 99        | 19.34   | 19.28   | 19.32   | 20.50   |
|           |            | 50      | 0         | 18.06   | 18.34   | 18.35   | 19.50   |
|           |            | 50      | 25        | 18.18   | 18.39   | 18.06   | 19.50   |
|           |            | 50      | 50        | 18.12   | 18.33   | 18.22   | 19.50   |
|           |            | 100     | 0         | 18.25   | 18.16   | 18.31   | 19.50   |
|           | 256QAM     | 1       | 0         | 16.30   | 16.63   | 16.41   | 17.50   |
|           |            | 1       | 50        | 16.31   | 16.57   | 16.58   | 17.50   |
|           |            | 1       | 99        | 16.57   | 16.39   | 16.58   | 17.50   |
|           |            | 50      | 0         | 16.43   | 16.45   | 16.30   | 17.50   |
|           |            | 50      | 25        | 16.37   | 16.38   | 16.24   | 17.50   |
|           |            | 50      | 50        | 16.34   | 16.51   | 16.27   | 17.50   |
|           |            | 100     | 0         | 16.49   | 16.29   | 16.27   | 17.50   |

| LTE Band 7 Eci3/7 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                   |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz              | QPSK       | 1       | 0         | 16.72                | 16.94   | 16.74   | 18.00   |
|                   |            | 1       | 13        | 16.64                | 16.72   | 16.57   | 18.00   |
|                   |            | 1       | 24        | 16.76                | 16.54   | 16.77   | 18.00   |
|                   |            | 12      | 0         | 16.61                | 16.86   | 16.68   | 18.00   |



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|              |                  |            |         |           |         |         |         |
|--------------|------------------|------------|---------|-----------|---------|---------|---------|
|              |                  | 12         | 6       | 16.64     | 16.72   | 16.63   | 18.00   |
|              |                  | 12         | 13      | 16.83     | 16.68   | 16.63   | 18.00   |
|              |                  | 25         | 0       | 16.74     | 16.70   | 16.64   | 18.00   |
|              | 16QAM            | 1          | 0       | 16.67     | 16.97   | 16.68   | 18.00   |
|              |                  | 1          | 13      | 16.71     | 16.87   | 16.62   | 18.00   |
|              |                  | 1          | 24      | 16.76     | 16.61   | 16.59   | 18.00   |
|              |                  | 12         | 0       | 16.64     | 16.73   | 16.76   | 18.00   |
|              |                  | 12         | 6       | 16.78     | 16.78   | 16.62   | 18.00   |
|              |                  | 12         | 13      | 16.70     | 16.63   | 16.72   | 18.00   |
|              |                  | 25         | 0       | 16.62     | 16.72   | 16.59   | 18.00   |
|              | 64QAM            | 1          | 0       | 16.64     | 17.00   | 16.55   | 18.00   |
|              |                  | 1          | 13      | 16.65     | 16.67   | 16.69   | 18.00   |
|              |                  | 1          | 24      | 16.75     | 16.68   | 16.70   | 18.00   |
|              |                  | 12         | 0       | 16.63     | 16.81   | 16.62   | 18.00   |
|              |                  | 12         | 6       | 16.70     | 16.75   | 16.63   | 18.00   |
|              |                  | 12         | 13      | 16.84     | 16.65   | 16.60   | 18.00   |
|              |                  | 25         | 0       | 16.71     | 16.64   | 16.63   | 18.00   |
|              | 256QAM           | 1          | 0       | 16.12     | 16.43   | 16.12   | 17.50   |
|              |                  | 1          | 13      | 16.17     | 16.40   | 16.04   | 17.50   |
|              |                  | 1          | 24      | 16.23     | 16.20   | 16.08   | 17.50   |
|              |                  | 12         | 0       | 15.99     | 16.18   | 15.98   | 17.50   |
|              |                  | 12         | 6       | 16.18     | 16.21   | 15.95   | 17.50   |
|              |                  | 12         | 13      | 16.30     | 16.22   | 15.97   | 17.50   |
|              |                  | 25         | 0       | 16.11     | 16.13   | 16.00   | 17.50   |
|              | <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel | Channel | Channel |
| 20800        |                  |            |         |           | 21100   | 21400   |         |
| <b>10MHz</b> | QPSK             | 1          | 0       | 16.71     | 16.96   | 16.64   | 18.00   |
|              |                  | 1          | 25      | 16.68     | 16.82   | 16.57   | 18.00   |
|              |                  | 1          | 49      | 16.76     | 16.52   | 16.69   | 18.00   |
|              |                  | 25         | 0       | 16.53     | 16.83   | 16.69   | 18.00   |
|              |                  | 25         | 13      | 16.78     | 16.73   | 16.62   | 18.00   |
|              |                  | 25         | 25      | 16.70     | 16.59   | 16.66   | 18.00   |
|              |                  | 50         | 0       | 16.74     | 16.72   | 16.71   | 18.00   |
|              | 16QAM            | 1          | 0       | 16.70     | 17.04   | 16.65   | 18.00   |
|              |                  | 1          | 25      | 16.70     | 16.75   | 16.57   | 18.00   |
|              |                  | 1          | 49      | 16.81     | 16.59   | 16.59   | 18.00   |
|              |                  | 25         | 0       | 16.60     | 16.86   | 16.70   | 18.00   |
|              |                  | 25         | 13      | 16.77     | 16.79   | 16.72   | 18.00   |
|              |                  | 25         | 25      | 16.73     | 16.59   | 16.73   | 18.00   |



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|           | 64QAM      | 50      | 0         | 16.59   | 16.78   | 16.68   | 18.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 16.70   | 17.03   | 16.61   | 18.00   |
|           |            | 1       | 25        | 16.67   | 16.66   | 16.78   | 18.00   |
|           |            | 1       | 49        | 16.72   | 16.59   | 16.67   | 18.00   |
|           |            | 25      | 0         | 16.64   | 16.79   | 16.67   | 18.00   |
|           |            | 25      | 13        | 16.62   | 16.84   | 16.71   | 18.00   |
|           |            | 25      | 25        | 16.78   | 16.63   | 16.68   | 18.00   |
|           |            | 50      | 0         | 16.64   | 16.71   | 16.62   | 18.00   |
|           | 256QAM     | 1       | 0         | 16.10   | 16.58   | 16.23   | 17.50   |
|           |            | 1       | 25        | 16.29   | 16.33   | 16.04   | 17.50   |
|           |            | 1       | 49        | 16.31   | 16.13   | 15.95   | 17.50   |
|           |            | 25      | 0         | 16.07   | 16.28   | 15.97   | 17.50   |
|           |            | 25      | 13        | 16.23   | 16.20   | 16.06   | 17.50   |
|           |            | 25      | 25        | 16.18   | 16.22   | 15.97   | 17.50   |
| 50        |            | 0       | 16.24     | 16.15   | 15.99   | 17.50   |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.67   | 16.88   | 16.73   | 18.00   |
|           |            | 1       | 38        | 16.59   | 16.79   | 16.64   | 18.00   |
|           |            | 1       | 74        | 16.75   | 16.53   | 16.72   | 18.00   |
|           |            | 36      | 0         | 16.54   | 16.95   | 16.67   | 18.00   |
|           |            | 36      | 18        | 16.72   | 16.76   | 16.66   | 18.00   |
|           |            | 36      | 39        | 16.70   | 16.68   | 16.76   | 18.00   |
|           |            | 75      | 0         | 16.65   | 16.67   | 16.72   | 18.00   |
|           | 16QAM      | 1       | 0         | 16.57   | 17.02   | 16.66   | 18.00   |
|           |            | 1       | 38        | 16.72   | 16.88   | 16.54   | 18.00   |
|           |            | 1       | 74        | 16.74   | 16.67   | 16.69   | 18.00   |
|           |            | 36      | 0         | 16.57   | 16.75   | 16.64   | 18.00   |
|           |            | 36      | 18        | 16.78   | 16.79   | 16.67   | 18.00   |
|           |            | 36      | 39        | 16.68   | 16.68   | 16.68   | 18.00   |
|           |            | 75      | 0         | 16.56   | 16.67   | 16.70   | 18.00   |
|           | 64QAM      | 1       | 0         | 16.58   | 16.89   | 16.56   | 18.00   |
|           |            | 1       | 38        | 16.66   | 16.62   | 16.71   | 18.00   |
|           |            | 1       | 74        | 16.74   | 16.66   | 16.67   | 18.00   |
|           |            | 36      | 0         | 16.53   | 16.75   | 16.67   | 18.00   |
|           |            | 36      | 18        | 16.72   | 16.84   | 16.69   | 18.00   |
|           |            | 36      | 39        | 16.70   | 16.70   | 16.60   | 18.00   |
|           |            | 75      | 0         | 16.74   | 16.75   | 16.71   | 18.00   |
|           | 256QAM     | 1       | 0         | 16.18   | 16.52   | 16.09   | 17.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 38        | 16.24   | 16.27   | 15.98   | 17.50   |
|           |            | 1       | 74        | 16.29   | 16.18   | 16.08   | 17.50   |
|           |            | 36      | 0         | 15.98   | 16.19   | 16.01   | 17.50   |
|           |            | 36      | 18        | 16.18   | 16.25   | 15.94   | 17.50   |
|           |            | 36      | 39        | 16.29   | 16.11   | 16.02   | 17.50   |
|           |            | 75      | 0         | 16.24   | 16.21   | 15.99   | 17.50   |
|           | 16QAM      | 1       | 0         | 16.62   | 16.70   | 16.61   | 18.00   |
|           |            | 1       | 50        | 16.83   | 16.69   | 16.59   | 18.00   |
|           |            | 1       | 99        | 16.65   | 16.73   | 16.64   | 18.00   |
|           |            | 50      | 0         | 16.53   | 16.70   | 16.60   | 18.00   |
|           |            | 50      | 25        | 16.66   | 16.72   | 16.65   | 18.00   |
|           |            | 50      | 50        | 16.82   | 16.65   | 16.64   | 18.00   |
|           | 64QAM      | 1       | 0         | 16.57   | 16.96   | 16.60   | 18.00   |
|           |            | 1       | 50        | 16.65   | 16.76   | 16.56   | 18.00   |
|           |            | 1       | 99        | 16.75   | 16.61   | 16.58   | 18.00   |
|           |            | 50      | 0         | 16.57   | 16.73   | 16.64   | 18.00   |
|           |            | 50      | 25        | 16.65   | 16.71   | 16.61   | 18.00   |
|           |            | 50      | 50        | 16.68   | 16.61   | 16.60   | 18.00   |
|           | 256QAM     | 1       | 0         | 16.57   | 16.68   | 16.61   | 18.00   |
|           |            | 1       | 0         | 16.58   | 16.90   | 16.55   | 18.00   |
|           |            | 1       | 50        | 16.63   | 16.61   | 16.67   | 18.00   |
|           |            | 1       | 99        | 16.72   | 16.57   | 16.66   | 18.00   |
|           |            | 50      | 0         | 16.55   | 16.76   | 16.60   | 18.00   |
|           |            | 50      | 25        | 16.61   | 16.73   | 16.62   | 18.00   |
|           | 256QAM     | 50      | 50        | 16.71   | 16.61   | 16.58   | 18.00   |
|           |            | 100     | 0         | 16.62   | 16.66   | 16.61   | 18.00   |
|           |            | 1       | 0         | 16.08   | 16.45   | 16.10   | 17.50   |
|           |            | 1       | 50        | 16.18   | 16.29   | 16.00   | 17.50   |
| 1         |            | 99      | 16.22     | 16.12   | 15.97   | 17.50   |         |
| 50        |            | 0       | 15.96     | 16.17   | 15.97   | 17.50   |         |
| 256QAM    | 50         | 25      | 16.12     | 16.14   | 15.95   | 17.50   |         |
|           | 50         | 50      | 16.20     | 16.12   | 15.93   | 17.50   |         |
|           | 50         | 0       | 16.12     | 16.14   | 15.93   | 17.50   |         |
|           | 100        | 0       | 16.12     | 16.14   | 15.93   | 17.50   |         |

| LTE Band 7 Eci6 | Conducted Power(dBm) |
|-----------------|----------------------|
|-----------------|----------------------|



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 20775   | 21100   | 21425   |         |       |
| 5MHz      | QPSK       | 1       | 0         | 19.34   | 19.48   | 19.16   | 21.00   |       |
|           |            | 1       | 13        | 19.23   | 19.18   | 19.14   | 21.00   |       |
|           |            | 1       | 24        | 19.14   | 19.16   | 19.07   | 21.00   |       |
|           |            | 12      | 0         | 19.09   | 19.18   | 19.15   | 21.00   |       |
|           |            | 12      | 6         | 19.16   | 19.16   | 19.20   | 21.00   |       |
|           |            | 12      | 13        | 19.22   | 19.22   | 19.10   | 21.00   |       |
|           | 16QAM      | 25      | 0         | 19.14   | 19.26   | 19.17   | 21.00   |       |
|           |            | 1       | 0         | 19.27   | 19.56   | 19.20   | 21.00   |       |
|           |            | 1       | 13        | 19.09   | 19.22   | 19.03   | 21.00   |       |
|           |            | 1       | 24        | 19.24   | 19.14   | 19.09   | 21.00   |       |
|           |            | 12      | 0         | 18.53   | 18.81   | 18.62   | 20.50   |       |
|           |            | 12      | 6         | 18.70   | 18.72   | 18.69   | 20.50   |       |
|           | 64QAM      | 12      | 13        | 18.66   | 18.71   | 18.51   | 20.50   |       |
|           |            | 25      | 0         | 18.59   | 18.74   | 18.66   | 20.50   |       |
|           |            | 1       | 0         | 18.55   | 19.00   | 18.62   | 20.50   |       |
|           |            | 1       | 13        | 18.67   | 18.57   | 18.76   | 20.50   |       |
|           |            | 1       | 24        | 18.68   | 18.55   | 18.61   | 20.50   |       |
|           |            | 12      | 0         | 17.79   | 17.78   | 17.70   | 19.50   |       |
|           | 256QAM     | 12      | 6         | 17.70   | 17.72   | 17.54   | 19.50   |       |
|           |            | 12      | 13        | 17.62   | 17.61   | 17.61   | 19.50   |       |
|           |            | 25      | 0         | 17.67   | 17.68   | 17.52   | 19.50   |       |
|           |            | 1       | 0         | 16.12   | 16.52   | 16.02   | 17.50   |       |
|           |            | 1       | 13        | 16.19   | 16.37   | 16.07   | 17.50   |       |
|           |            | 1       | 24        | 16.13   | 16.17   | 15.89   | 17.50   |       |
|           | 10MHz      | QPSK    | 12        | 0       | 15.87   | 16.08   | 15.94   | 17.50 |
|           |            |         | 12        | 6       | 16.02   | 16.04   | 15.93   | 17.50 |
|           |            |         | 12        | 13      | 16.27   | 16.20   | 15.83   | 17.50 |
|           |            |         | 25        | 0       | 16.12   | 16.10   | 16.01   | 17.50 |
| 1         |            |         | 0         | 19.51   | 19.43   | 19.22   | 21.00   |       |
| 1         |            |         | 25        | 19.20   | 19.24   | 19.29   | 21.00   |       |
| 1         |            |         | 49        | 19.06   | 19.25   | 19.18   | 21.00   |       |
| 25        | 0          | 19.12   | 19.23     | 19.05   | 21.00   |         |         |       |
| 25        | 13         | 19.15   | 19.27     | 19.22   | 21.00   |         |         |       |
| 25        | 25         | 19.25   | 19.08     | 19.04   | 21.00   |         |         |       |
| 50        | 0          | 19.13   | 19.17     | 19.01   | 21.00   |         |         |       |



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|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  | 16QAM             | 1              | 0                | 19.09          | 19.52          | 19.10          | 21.00          |
|                  |                   | 1              | 25               | 19.22          | 19.18          | 19.15          | 21.00          |
|                  |                   | 1              | 49               | 19.21          | 19.14          | 19.09          | 21.00          |
|                  |                   | 25             | 0                | 18.58          | 18.72          | 18.66          | 20.50          |
|                  |                   | 25             | 13               | 18.69          | 18.76          | 18.63          | 20.50          |
|                  |                   | 25             | 25               | 18.66          | 18.55          | 18.68          | 20.50          |
|                  |                   | 50             | 0                | 18.53          | 18.63          | 18.52          | 20.50          |
|                  | 64QAM             | 1              | 0                | 18.59          | 18.97          | 18.60          | 20.50          |
|                  |                   | 1              | 25               | 18.54          | 18.65          | 18.67          | 20.50          |
|                  |                   | 1              | 49               | 18.71          | 18.50          | 18.68          | 20.50          |
|                  |                   | 25             | 0                | 17.52          | 17.74          | 17.69          | 19.50          |
|                  |                   | 25             | 13               | 17.55          | 17.80          | 17.69          | 19.50          |
|                  |                   | 25             | 25               | 17.66          | 17.68          | 17.63          | 19.50          |
|                  |                   | 50             | 0                | 17.67          | 17.66          | 17.68          | 19.50          |
|                  | 256QAM            | 1              | 0                | 15.98          | 16.37          | 16.10          | 17.50          |
|                  |                   | 1              | 25               | 16.20          | 16.24          | 16.08          | 17.50          |
|                  |                   | 1              | 49               | 16.17          | 16.20          | 15.93          | 17.50          |
|                  |                   | 25             | 0                | 15.96          | 16.23          | 15.99          | 17.50          |
|                  |                   | 25             | 13               | 16.03          | 16.15          | 16.02          | 17.50          |
|                  |                   | 25             | 25               | 16.13          | 16.07          | 16.01          | 17.50          |
|                  |                   | 50             | 0                | 16.21          | 16.17          | 16.00          | 17.50          |
| <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> |
|                  |                   |                |                  | 20825          | 21100          | 21375          |                |
| <b>15MHz</b>     | QPSK              | 1              | 0                | 19.48          | 19.47          | 19.16          | 21.00          |
|                  |                   | 1              | 38               | 19.23          | 19.17          | 19.02          | 21.00          |
|                  |                   | 1              | 74               | 19.11          | 19.15          | 19.06          | 21.00          |
|                  |                   | 36             | 0                | 19.04          | 19.22          | 19.01          | 21.00          |
|                  |                   | 36             | 18               | 19.22          | 19.25          | 19.06          | 21.00          |
|                  |                   | 36             | 39               | 19.27          | 19.25          | 19.10          | 21.00          |
|                  |                   | 75             | 0                | 19.12          | 19.27          | 19.01          | 21.00          |
|                  | 16QAM             | 1              | 0                | 19.09          | 19.46          | 19.00          | 21.00          |
|                  |                   | 1              | 38               | 19.18          | 19.24          | 19.06          | 21.00          |
|                  |                   | 1              | 74               | 19.15          | 19.13          | 19.08          | 21.00          |
|                  |                   | 36             | 0                | 18.64          | 18.76          | 18.74          | 20.50          |
|                  |                   | 36             | 18               | 18.57          | 18.62          | 18.53          | 20.50          |
|                  |                   | 36             | 39               | 18.69          | 18.63          | 18.51          | 20.50          |
|                  |                   | 75             | 0                | 18.54          | 18.63          | 18.68          | 20.50          |
|                  | 64QAM             | 1              | 0                | 18.64          | 18.91          | 18.58          | 20.50          |
| 1                |                   | 38             | 18.72            | 18.59          | 18.75          | 20.50          |                |



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|       |        | 1         | 74         | 18.73   | 18.78     | 18.62   | 20.50   |         |         |
|-------|--------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |        | 36        | 0          | 17.52   | 17.73     | 17.70   | 19.50   |         |         |
|       |        | 36        | 18         | 17.70   | 17.74     | 17.68   | 19.50   |         |         |
|       |        | 36        | 39         | 17.80   | 17.54     | 17.65   | 19.50   |         |         |
|       |        | 75        | 0          | 17.56   | 17.73     | 17.62   | 19.50   |         |         |
|       |        | 256QAM    | 1          | 0       | 16.14     | 16.37   | 16.02   | 17.50   |         |
|       |        |           | 1          | 38      | 16.25     | 16.34   | 16.04   | 17.50   |         |
|       |        |           | 1          | 74      | 16.21     | 16.10   | 15.89   | 17.50   |         |
|       |        |           | 36         | 0       | 15.98     | 16.10   | 16.04   | 17.50   |         |
|       |        |           | 36         | 18      | 16.17     | 16.21   | 15.98   | 17.50   |         |
|       |        |           | 36         | 39      | 16.15     | 16.07   | 16.03   | 17.50   |         |
|       |        |           | 75         | 0       | 16.10     | 16.07   | 15.85   | 17.50   |         |
|       |        | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |        |           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz | QPSK   | 1         | 0          | 19.41   | 19.46     | 19.26   | 21.00   |         |         |
|       |        | 1         | 50         | 19.55   | 19.19     | 19.09   | 21.00   |         |         |
|       |        | 1         | 99         | 19.15   | 19.23     | 19.14   | 21.00   |         |         |
|       |        | 50        | 0          | 19.03   | 19.20     | 19.10   | 21.00   |         |         |
|       |        | 50        | 25         | 19.16   | 19.22     | 19.15   | 21.00   |         |         |
|       |        | 50        | 50         | 19.32   | 19.15     | 19.14   | 21.00   |         |         |
|       |        | 100       | 0          | 19.13   | 19.19     | 19.10   | 21.00   |         |         |
|       | 16QAM  | 1         | 0          | 19.07   | 19.46     | 19.10   | 21.00   |         |         |
|       |        | 1         | 50         | 19.15   | 19.26     | 19.06   | 21.00   |         |         |
|       |        | 1         | 99         | 19.25   | 19.11     | 19.08   | 21.00   |         |         |
|       |        | 50        | 0          | 18.57   | 18.73     | 18.64   | 20.50   |         |         |
|       |        | 50        | 25         | 18.65   | 18.71     | 18.61   | 20.50   |         |         |
|       |        | 50        | 50         | 18.68   | 18.61     | 18.60   | 20.50   |         |         |
|       |        | 100       | 0          | 18.57   | 18.68     | 18.61   | 20.50   |         |         |
|       | 64QAM  | 1         | 0          | 18.58   | 18.90     | 18.55   | 20.50   |         |         |
|       |        | 1         | 50         | 18.63   | 18.61     | 18.67   | 20.50   |         |         |
|       |        | 1         | 99         | 18.72   | 18.57     | 18.66   | 20.50   |         |         |
|       |        | 50        | 0          | 17.55   | 17.76     | 17.60   | 19.50   |         |         |
|       |        | 50        | 25         | 17.61   | 17.73     | 17.62   | 19.50   |         |         |
|       |        | 50        | 50         | 17.71   | 17.61     | 17.58   | 19.50   |         |         |
|       |        | 100       | 0          | 17.62   | 17.66     | 17.61   | 19.50   |         |         |
|       | 256QAM | 1         | 0          | 16.08   | 16.45     | 16.10   | 17.50   |         |         |
|       |        | 1         | 50         | 16.18   | 16.29     | 16.00   | 17.50   |         |         |
|       |        | 1         | 99         | 16.22   | 16.12     | 15.97   | 17.50   |         |         |
|       |        | 50        | 0          | 15.96   | 16.17     | 15.97   | 17.50   |         |         |



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|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 50  | 25 | 16.12 | 16.14 | 15.95 | 17.50 |
|  |  | 50  | 50 | 16.20 | 16.12 | 15.93 | 17.50 |
|  |  | 100 | 0  | 16.12 | 16.14 | 15.93 | 17.50 |

| LTE FDD Band 12 Eci2/3/4/7/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz                       | QPSK       | 1       | 0         | 22.58                | 22.62   | 22.45   | 23.50   |
|                              |            | 1       | 2         | 22.64                | 22.48   | 22.40   | 23.50   |
|                              |            | 1       | 5         | 22.47                | 22.39   | 22.41   | 23.50   |
|                              |            | 3       | 0         | 22.64                | 22.53   | 22.42   | 23.50   |
|                              |            | 3       | 2         | 22.56                | 22.41   | 22.41   | 23.50   |
|                              |            | 3       | 3         | 22.49                | 22.52   | 22.40   | 23.50   |
|                              | 16QAM      | 6       | 0         | 21.60                | 21.51   | 21.58   | 22.50   |
|                              |            | 1       | 0         | 21.75                | 21.65   | 21.70   | 22.50   |
|                              |            | 1       | 2         | 21.68                | 21.62   | 21.62   | 22.50   |
|                              |            | 1       | 5         | 21.55                | 21.57   | 21.49   | 22.50   |
|                              |            | 3       | 0         | 21.66                | 21.47   | 21.49   | 22.50   |
|                              |            | 3       | 2         | 21.56                | 21.40   | 21.31   | 22.50   |
|                              | 64QAM      | 3       | 3         | 21.46                | 21.46   | 21.36   | 22.50   |
|                              |            | 6       | 0         | 20.61                | 20.56   | 20.42   | 21.50   |
|                              |            | 1       | 0         | 20.59                | 20.69   | 20.67   | 21.50   |
|                              |            | 1       | 2         | 20.52                | 20.63   | 20.61   | 21.50   |
|                              |            | 1       | 5         | 20.62                | 20.31   | 20.52   | 21.50   |
|                              |            | 3       | 0         | 20.52                | 20.50   | 20.54   | 21.50   |
|                              | 256QAM     | 3       | 2         | 20.46                | 20.56   | 20.35   | 21.50   |
|                              |            | 3       | 3         | 20.52                | 20.33   | 20.31   | 21.50   |
|                              |            | 6       | 0         | 19.40                | 19.48   | 19.40   | 20.50   |
|                              |            | 1       | 0         | 17.67                | 17.64   | 17.67   | 18.50   |
|                              |            | 1       | 2         | 17.60                | 17.51   | 17.64   | 18.50   |
|                              |            | 1       | 5         | 17.53                | 17.46   | 17.46   | 18.50   |
| 3MHz                         | QPSK       | 3       | 0         | 17.65                | 17.54   | 17.41   | 18.50   |
|                              |            | 3       | 2         | 17.46                | 17.49   | 17.37   | 18.50   |
|                              |            | 3       | 3         | 17.56                | 17.39   | 17.35   | 18.50   |
|                              |            | 6       | 0         | 17.45                | 17.49   | 17.35   | 18.50   |
|                              |            | Channel | Channel   | Channel              | Tune up |         |         |
|                              |            | 23025   | 23095     | 23165                |         |         |         |
| 3MHz                         | QPSK       | 1       | 0         | 22.46                | 22.67   | 22.45   | 23.50   |



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|           |        |            |         |           |         |         |         |         |
|-----------|--------|------------|---------|-----------|---------|---------|---------|---------|
|           |        | 1          | 7       | 22.56     | 22.61   | 22.28   | 23.50   |         |
|           |        | 1          | 14      | 22.49     | 22.36   | 22.34   | 23.50   |         |
|           |        | 8          | 0       | 21.53     | 21.41   | 21.44   | 22.50   |         |
|           |        | 8          | 4       | 21.58     | 21.41   | 21.33   | 22.50   |         |
|           |        | 8          | 7       | 21.55     | 21.45   | 21.34   | 22.50   |         |
|           |        | 15         | 0       | 21.52     | 21.43   | 21.52   | 22.50   |         |
|           | 16QAM  | 1          | 0       | 21.71     | 21.77   | 21.72   | 22.50   |         |
|           |        | 1          | 7       | 21.77     | 21.60   | 21.57   | 22.50   |         |
|           |        | 1          | 14      | 21.56     | 21.39   | 21.49   | 22.50   |         |
|           |        | 8          | 0       | 20.52     | 20.51   | 20.42   | 21.50   |         |
|           |        | 8          | 4       | 20.62     | 20.48   | 20.34   | 21.50   |         |
|           |        | 8          | 7       | 20.57     | 20.39   | 20.37   | 21.50   |         |
|           | 64QAM  | 15         | 0       | 20.64     | 20.40   | 20.45   | 21.50   |         |
|           |        | 1          | 0       | 20.56     | 20.63   | 20.61   | 21.50   |         |
|           |        | 1          | 7       | 20.60     | 20.61   | 20.52   | 21.50   |         |
|           |        | 1          | 14      | 20.53     | 20.39   | 20.49   | 21.50   |         |
|           |        | 8          | 0       | 19.48     | 19.52   | 19.41   | 20.50   |         |
|           |        | 8          | 4       | 19.55     | 19.57   | 19.37   | 20.50   |         |
|           | 256QAM | 8          | 7       | 19.53     | 19.41   | 19.45   | 20.50   |         |
|           |        | 15         | 0       | 19.57     | 19.49   | 19.41   | 20.50   |         |
|           |        | 1          | 0       | 17.61     | 17.65   | 17.62   | 18.50   |         |
|           |        | 1          | 7       | 17.60     | 17.60   | 17.58   | 18.50   |         |
|           |        | 1          | 14      | 17.46     | 17.35   | 17.58   | 18.50   |         |
|           |        | 8          | 0       | 17.51     | 17.54   | 17.50   | 18.50   |         |
|           | 5MHz   | 8          | 4       | 17.48     | 17.39   | 17.37   | 18.50   |         |
|           |        | 8          | 7       | 17.58     | 17.44   | 17.36   | 18.50   |         |
|           |        | 15         | 0       | 17.56     | 17.51   | 17.47   | 18.50   |         |
| Bandwidth |        | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |        |            |         |           | 23035   | 23095   | 23155   |         |
| 5MHz      |        | QPSK       | 1       | 0         | 22.61   | 22.49   | 22.48   | 23.50   |
|           | 1      |            | 13      | 22.52     | 22.52   | 22.26   | 23.50   |         |
|           | 1      |            | 24      | 22.65     | 22.36   | 22.45   | 23.50   |         |
|           | 12     |            | 0       | 21.51     | 21.44   | 21.57   | 22.50   |         |
|           | 12     |            | 6       | 21.61     | 21.50   | 21.40   | 22.50   |         |
|           | 12     |            | 13      | 21.66     | 21.45   | 21.42   | 22.50   |         |
|           | 16QAM  | 25         | 0       | 21.59     | 21.38   | 21.57   | 22.50   |         |
|           |        | 1          | 0       | 21.82     | 21.83   | 21.80   | 22.50   |         |
|           |        | 1          | 13      | 21.68     | 21.65   | 21.59   | 22.50   |         |
|           |        | 1          | 24      | 21.65     | 21.56   | 21.48   | 22.50   |         |



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|       |    |           |            |         |           |         |         |         |         |
|-------|----|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |    | 12        | 0          | 20.59   | 20.46     | 20.39   | 21.50   |         |         |
|       |    | 12        | 6          | 20.60   | 20.50     | 20.36   | 21.50   |         |         |
|       |    | 12        | 13         | 20.50   | 20.31     | 20.41   | 21.50   |         |         |
|       |    | 25        | 0          | 20.46   | 20.44     | 20.43   | 21.50   |         |         |
|       |    | 64QAM     | 1          | 0       | 20.59     | 20.59   | 20.68   | 21.50   |         |
|       |    |           | 1          | 13      | 20.66     | 20.48   | 20.50   | 21.50   |         |
|       |    |           | 1          | 24      | 20.56     | 20.35   | 20.49   | 21.50   |         |
|       |    |           | 12         | 0       | 19.64     | 19.46   | 19.51   | 20.50   |         |
|       |    |           | 12         | 6       | 19.60     | 19.52   | 19.41   | 20.50   |         |
|       |    |           | 12         | 13      | 19.52     | 19.46   | 19.40   | 20.50   |         |
|       |    | 256QAM    | 25         | 0       | 19.52     | 19.42   | 19.39   | 20.50   |         |
|       |    |           | 1          | 0       | 17.74     | 17.49   | 17.58   | 18.50   |         |
|       | 1  |           | 13         | 17.56   | 17.50     | 17.58   | 18.50   |         |         |
|       | 1  |           | 24         | 17.58   | 17.47     | 17.54   | 18.50   |         |         |
|       | 12 |           | 0          | 17.65   | 17.53     | 17.51   | 18.50   |         |         |
|       | 12 |           | 6          | 17.47   | 17.51     | 17.37   | 18.50   |         |         |
|       |    | 12        | 13         | 17.53   | 17.45     | 17.42   | 18.50   |         |         |
|       |    | 25        | 0          | 17.43   | 17.43     | 17.39   | 18.50   |         |         |
|       |    | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |    |           |            |         |           | 23060   | 23095   | 23130   |         |
|       |    | 10MHz     | QPSK       | 1       | 0         | 22.55   | 22.59   | 22.54   | 23.50   |
|       |    |           |            | 1       | 25        | 22.54   | 22.51   | 22.34   | 23.50   |
|       | 1  |           |            | 49      | 22.55     | 22.43   | 22.39   | 23.50   |         |
|       | 25 |           |            | 0       | 21.56     | 21.50   | 21.49   | 22.50   |         |
| 25    | 13 |           |            | 21.55   | 21.47     | 21.41   | 22.50   |         |         |
| 25    | 25 |           |            | 21.56   | 21.43     | 21.44   | 22.50   |         |         |
| 50    | 0  |           |            | 21.60   | 21.45     | 21.48   | 22.50   |         |         |
| 16QAM | 1  |           | 0          | 21.72   | 21.73     | 21.70   | 22.50   |         |         |
|       | 1  |           | 25         | 21.68   | 21.64     | 21.61   | 22.50   |         |         |
|       | 1  |           | 49         | 21.55   | 21.49     | 21.56   | 22.50   |         |         |
|       | 25 |           | 0          | 20.56   | 20.46     | 20.46   | 21.50   |         |         |
|       | 25 |           | 13         | 20.53   | 20.46     | 20.40   | 21.50   |         |         |
|       | 25 |           | 25         | 20.54   | 20.41     | 20.40   | 21.50   |         |         |
| 64QAM | 50 |           | 0          | 20.55   | 20.47     | 20.44   | 21.50   |         |         |
|       | 1  |           | 0          | 20.62   | 20.60     | 20.66   | 21.50   |         |         |
|       | 1  |           | 25         | 20.61   | 20.53     | 20.56   | 21.50   |         |         |
|       | 1  |           | 49         | 20.53   | 20.38     | 20.47   | 21.50   |         |         |
|       | 25 |           | 0          | 19.54   | 19.50     | 19.44   | 20.50   |         |         |
|       |    |           | 25         | 13      | 19.54     | 19.49   | 19.45   | 20.50   |         |



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|--------|----|----|-------|-------|-------|-------|
| 256QAM | 25 | 25 | 19.52 | 19.42 | 19.41 | 20.50 |
|        | 50 | 0  | 19.50 | 19.50 | 19.46 | 20.50 |
|        | 1  | 0  | 17.65 | 17.58 | 17.65 | 18.50 |
|        | 1  | 25 | 17.56 | 17.56 | 17.57 | 18.50 |
|        | 1  | 49 | 17.53 | 17.45 | 17.54 | 18.50 |
|        | 25 | 0  | 17.56 | 17.45 | 17.46 | 18.50 |
|        | 25 | 13 | 17.52 | 17.46 | 17.40 | 18.50 |
|        | 25 | 25 | 17.49 | 17.39 | 17.40 | 18.50 |
|        | 50 | 0  | 17.52 | 17.45 | 17.44 | 18.50 |

| LTE FDD Band 13 Eci2/3/4/7/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 23205                | 23230   | 23255   |         |
| 5MHz                         | QPSK       | 1       | 0         | 22.45                | 22.53   | 22.61   | 23.50   |
|                              |            | 1       | 13        | 22.56                | 22.43   | 22.56   | 23.50   |
|                              |            | 1       | 24        | 22.31                | 22.39   | 22.46   | 23.50   |
|                              |            | 12      | 0         | 21.47                | 21.52   | 21.42   | 22.50   |
|                              |            | 12      | 6         | 21.48                | 21.55   | 21.49   | 22.50   |
|                              |            | 12      | 13        | 21.41                | 21.39   | 21.46   | 22.50   |
|                              |            | 25      | 0         | 21.42                | 21.50   | 21.55   | 22.50   |
|                              | 16QAM      | 1       | 0         | 21.60                | 21.69   | 21.68   | 22.50   |
|                              |            | 1       | 13        | 21.54                | 21.54   | 21.53   | 22.50   |
|                              |            | 1       | 24        | 21.42                | 21.48   | 21.46   | 22.50   |
|                              |            | 12      | 0         | 20.48                | 20.58   | 20.55   | 21.50   |
|                              |            | 12      | 6         | 20.57                | 20.55   | 20.51   | 21.50   |
|                              |            | 12      | 13        | 20.32                | 20.35   | 20.36   | 21.50   |
|                              |            | 25      | 0         | 20.36                | 20.46   | 20.35   | 21.50   |
|                              | 64QAM      | 1       | 0         | 20.65                | 20.65   | 20.68   | 21.50   |
|                              |            | 1       | 13        | 20.47                | 20.61   | 20.66   | 21.50   |
|                              |            | 1       | 24        | 20.48                | 20.61   | 20.55   | 21.50   |
|                              |            | 12      | 0         | 19.64                | 19.63   | 19.48   | 20.50   |
|                              |            | 12      | 6         | 19.66                | 19.56   | 19.55   | 20.50   |
|                              |            | 12      | 13        | 19.46                | 19.57   | 19.51   | 20.50   |
|                              |            | 25      | 0         | 19.47                | 19.53   | 19.48   | 20.50   |
|                              | 256QAM     | 1       | 0         | 17.68                | 17.70   | 17.86   | 18.50   |
|                              |            | 1       | 13        | 17.63                | 17.73   | 17.73   | 18.50   |
|                              |            | 1       | 24        | 17.64                | 17.55   | 17.62   | 18.50   |
|                              |            | 12      | 0         | 17.44                | 17.53   | 17.44   | 18.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | /       | 23230   | /       |         |
| 10MHz     |            | 12      | 6         | 17.67   | 17.51   | 17.51   | 18.50   |
|           |            | 12      | 13        | 17.42   | 17.54   | 17.48   | 18.50   |
|           |            | 25      | 0         | 17.56   | 17.53   | 17.44   | 18.50   |
|           | QPSK       | 1       | 0         | /       | 22.53   | /       | 23.50   |
|           |            | 1       | 25        | /       | 22.52   | /       | 23.50   |
|           |            | 1       | 49        | /       | 22.36   | /       | 23.50   |
|           |            | 25      | 0         | /       | 21.49   | /       | 22.50   |
|           |            | 25      | 13        | /       | 21.48   | /       | 22.50   |
|           |            | 25      | 25        | /       | 21.42   | /       | 22.50   |
|           |            | 50      | 0         | /       | 21.47   | /       | 22.50   |
|           | 16QAM      | 1       | 0         | /       | 21.69   | /       | 22.50   |
|           |            | 1       | 25        | /       | 21.61   | /       | 22.50   |
|           |            | 1       | 49        | /       | 21.52   | /       | 22.50   |
|           |            | 25      | 0         | /       | 20.49   | /       | 21.50   |
|           |            | 25      | 13        | /       | 20.47   | /       | 21.50   |
|           |            | 25      | 25        | /       | 20.41   | /       | 21.50   |
|           |            | 50      | 0         | /       | 20.45   | /       | 21.50   |
|           | 64QAM      | 1       | 0         | /       | 20.70   | /       | 21.50   |
|           |            | 1       | 25        | /       | 20.57   | /       | 21.50   |
|           |            | 1       | 49        | /       | 20.54   | /       | 21.50   |
|           |            | 25      | 0         | /       | 19.58   | /       | 20.50   |
|           |            | 25      | 13        | /       | 19.59   | /       | 20.50   |
|           |            | 25      | 25        | /       | 19.53   | /       | 20.50   |
|           |            | 50      | 0         | /       | 19.54   | /       | 20.50   |
|           | 256QAM     | 1       | 0         | /       | 17.78   | /       | 18.50   |
|           |            | 1       | 25        | /       | 17.65   | /       | 18.50   |
|           |            | 1       | 49        | /       | 17.65   | /       | 18.50   |
|           |            | 25      | 0         | /       | 17.53   | /       | 18.50   |
|           |            | 25      | 13        | /       | 17.57   | /       | 18.50   |
|           |            | 25      | 25        | /       | 17.48   | /       | 18.50   |
| 50        |            | 0       | /         | 17.51   | /       | 18.50   |         |



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| LTE FDD Band 17 Eci2/3/4/7/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 23755                | 23790   | 23825   |         |
| 5MHz                         | QPSK       | 1       | 0         | 22.59                | 22.42   | 22.53   | 23.50   |
|                              |            | 1       | 13        | 22.39                | 22.35   | 22.37   | 23.50   |
|                              |            | 1       | 24        | 22.38                | 22.43   | 22.28   | 23.50   |
|                              |            | 12      | 0         | 21.36                | 21.33   | 21.35   | 22.50   |
|                              |            | 12      | 6         | 21.41                | 21.30   | 21.28   | 22.50   |
|                              |            | 12      | 13        | 21.40                | 21.46   | 21.36   | 22.50   |
|                              |            | 25      | 0         | 21.40                | 21.51   | 21.34   | 22.50   |
|                              | 16QAM      | 1       | 0         | 21.70                | 21.62   | 21.48   | 22.50   |
|                              |            | 1       | 13        | 21.71                | 21.54   | 21.58   | 22.50   |
|                              |            | 1       | 24        | 21.38                | 21.42   | 21.29   | 22.50   |
|                              |            | 12      | 0         | 20.59                | 20.44   | 20.58   | 21.50   |
|                              |            | 12      | 6         | 20.43                | 20.55   | 20.53   | 21.50   |
|                              |            | 12      | 13        | 20.53                | 20.51   | 20.43   | 21.50   |
|                              |            | 25      | 0         | 20.42                | 20.49   | 20.48   | 21.50   |
|                              | 64QAM      | 1       | 0         | 20.61                | 20.65   | 20.67   | 21.50   |
|                              |            | 1       | 13        | 20.58                | 20.60   | 20.56   | 21.50   |
|                              |            | 1       | 24        | 20.55                | 20.30   | 20.52   | 21.50   |
|                              |            | 12      | 0         | 19.58                | 19.44   | 19.44   | 20.50   |
|                              |            | 12      | 6         | 19.55                | 19.41   | 19.46   | 20.50   |
|                              |            | 12      | 13        | 19.56                | 19.53   | 19.50   | 20.50   |
|                              |            | 25      | 0         | 19.49                | 19.51   | 19.51   | 20.50   |
|                              | 256QAM     | 1       | 0         | 17.73                | 17.58   | 17.68   | 18.50   |
|                              |            | 1       | 13        | 17.49                | 17.65   | 17.48   | 18.50   |
|                              |            | 1       | 24        | 17.62                | 17.53   | 17.51   | 18.50   |
|                              |            | 12      | 0         | 17.51                | 17.58   | 17.58   | 18.50   |
|                              |            | 12      | 6         | 17.43                | 17.53   | 17.41   | 18.50   |
|                              |            | 12      | 13        | 17.44                | 17.45   | 17.39   | 18.50   |
|                              |            | 25      | 0         | 17.44                | 17.57   | 17.53   | 18.50   |
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                        | QPSK       | 1       | 0         | 22.53                | 22.50   | 22.52   | 23.50   |
|                              |            | 1       | 25        | 22.39                | 22.38   | 22.37   | 23.50   |
|                              |            | 1       | 49        | 22.33                | 22.33   | 22.31   | 23.50   |
|                              |            | 25      | 0         | 21.43                | 21.39   | 21.38   | 22.50   |
|                              |            | 25      | 13        | 21.34                | 21.35   | 21.32   | 22.50   |
|                              |            |         |           |                      |         | 23780   | 23790   |



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|  |        |    |    |       |       |       |       |
|--|--------|----|----|-------|-------|-------|-------|
|  |        | 25 | 25 | 21.34 | 21.39 | 21.37 | 22.50 |
|  |        | 50 | 0  | 21.37 | 21.43 | 21.39 | 22.50 |
|  | 16QAM  | 1  | 0  | 21.61 | 21.66 | 21.58 | 22.50 |
|  |        | 1  | 25 | 21.64 | 21.52 | 21.52 | 22.50 |
|  |        | 1  | 49 | 21.47 | 21.46 | 21.39 | 22.50 |
|  |        | 25 | 0  | 20.50 | 20.54 | 20.54 | 21.50 |
|  |        | 25 | 13 | 20.51 | 20.51 | 20.46 | 21.50 |
|  |        | 25 | 25 | 20.46 | 20.45 | 20.45 | 21.50 |
|  |        | 50 | 0  | 20.51 | 20.50 | 20.49 | 21.50 |
|  | 64QAM  | 1  | 0  | 20.60 | 20.61 | 20.61 | 21.50 |
|  |        | 1  | 25 | 20.53 | 20.54 | 20.61 | 21.50 |
|  |        | 1  | 49 | 20.51 | 20.40 | 20.51 | 21.50 |
|  |        | 25 | 0  | 19.52 | 19.51 | 19.49 | 20.50 |
|  |        | 25 | 13 | 19.51 | 19.51 | 19.49 | 20.50 |
|  |        | 25 | 25 | 19.47 | 19.46 | 19.46 | 20.50 |
|  |        | 50 | 0  | 19.47 | 19.49 | 19.51 | 20.50 |
|  | 256QAM | 1  | 0  | 17.65 | 17.64 | 17.65 | 18.50 |
|  |        | 1  | 25 | 17.55 | 17.58 | 17.43 | 18.50 |
|  |        | 1  | 49 | 17.57 | 17.43 | 17.57 | 18.50 |
|  |        | 25 | 0  | 17.47 | 17.48 | 17.48 | 18.50 |
|  |        | 25 | 13 | 17.46 | 17.46 | 17.44 | 18.50 |
|  |        | 25 | 25 | 17.43 | 17.44 | 17.39 | 18.50 |
|  |        | 50 | 0  | 17.49 | 17.48 | 17.54 | 18.50 |

| LTE Band 26 Eci2/4 |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 26697                | 26865   | 27033   |         |
| 1.4MHz             | QPSK       | 1       | 0         | 22.39                | 22.38   | 22.23   | 23.50   |
|                    |            | 1       | 2         | 22.25                | 22.40   | 22.25   | 23.50   |
|                    |            | 1       | 5         | 22.36                | 22.30   | 22.27   | 23.50   |
|                    |            | 3       | 0         | 22.20                | 22.43   | 22.21   | 23.50   |
|                    |            | 3       | 2         | 22.29                | 22.29   | 22.29   | 23.50   |
|                    |            | 3       | 3         | 22.27                | 22.33   | 22.38   | 23.50   |
|                    |            | 6       | 0         | 21.42                | 21.44   | 21.24   | 22.50   |
|                    | 16QAM      | 1       | 0         | 21.53                | 21.50   | 21.41   | 22.50   |
|                    |            | 1       | 2         | 21.54                | 21.57   | 21.49   | 22.50   |
|                    |            | 1       | 5         | 21.46                | 21.53   | 21.37   | 22.50   |
|                    |            | 3       | 0         | 21.17                | 21.45   | 21.26   | 22.50   |



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|       |           | 3          | 2       | 21.39     | 21.31   | 21.39   | 22.50   |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 3          | 3       | 21.22     | 21.31   | 21.33   | 22.50   |         |
|       |           | 6          | 0       | 20.25     | 20.48   | 20.23   | 21.50   |         |
|       | 64QAM     | 1          | 0       | 20.49     | 20.49   | 20.48   | 21.50   |         |
|       |           | 1          | 2       | 20.29     | 20.48   | 20.34   | 21.50   |         |
|       |           | 1          | 5       | 20.52     | 20.35   | 20.45   | 21.50   |         |
|       |           | 3          | 0       | 20.30     | 20.31   | 20.39   | 21.50   |         |
|       |           | 3          | 2       | 20.32     | 20.38   | 20.24   | 21.50   |         |
|       |           | 3          | 3       | 20.34     | 20.37   | 20.31   | 21.50   |         |
|       |           | 6          | 0       | 19.36     | 19.44   | 19.26   | 20.50   |         |
|       | 256QAM    | 1          | 0       | 17.60     | 17.65   | 17.37   | 18.50   |         |
|       |           | 1          | 2       | 17.56     | 17.46   | 17.52   | 18.50   |         |
|       |           | 1          | 5       | 17.53     | 17.40   | 17.44   | 18.50   |         |
|       |           | 3          | 0       | 17.52     | 17.57   | 17.40   | 18.50   |         |
|       |           | 3          | 2       | 17.52     | 17.50   | 17.36   | 18.50   |         |
|       |           | 3          | 3       | 17.38     | 17.45   | 17.38   | 18.50   |         |
|       |           | 6          | 0       | 17.48     | 17.43   | 17.33   | 18.50   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 26705   | 26865   | 27025   |         |
|       | 3MHz      | QPSK       | 1       | 0         | 22.47   | 22.28   | 22.29   | 23.50   |
|       |           |            | 1       | 7         | 22.25   | 22.42   | 22.27   | 23.50   |
| 1     |           |            | 14      | 22.33     | 22.26   | 22.28   | 23.50   |         |
| 8     |           |            | 0       | 21.34     | 21.42   | 21.38   | 22.50   |         |
| 8     |           |            | 4       | 21.35     | 21.29   | 21.24   | 22.50   |         |
| 8     |           |            | 7       | 21.37     | 21.29   | 21.39   | 22.50   |         |
| 15    |           |            | 0       | 21.43     | 21.30   | 21.32   | 22.50   |         |
| 16QAM |           | 1          | 0       | 21.45     | 21.51   | 21.55   | 22.50   |         |
|       |           | 1          | 7       | 21.51     | 21.62   | 21.44   | 22.50   |         |
|       |           | 1          | 14      | 21.49     | 21.59   | 21.25   | 22.50   |         |
|       |           | 8          | 0       | 20.28     | 20.44   | 20.35   | 21.50   |         |
|       |           | 8          | 4       | 20.38     | 20.39   | 20.34   | 21.50   |         |
|       |           | 8          | 7       | 20.29     | 20.35   | 20.27   | 21.50   |         |
|       |           | 15         | 0       | 20.35     | 20.37   | 20.29   | 21.50   |         |
| 64QAM |           | 1          | 0       | 20.47     | 20.37   | 20.33   | 21.50   |         |
|       |           | 1          | 7       | 20.33     | 20.50   | 20.35   | 21.50   |         |
|       |           | 1          | 14      | 20.50     | 20.45   | 20.50   | 21.50   |         |
|       |           | 8          | 0       | 19.27     | 19.42   | 19.35   | 20.50   |         |
|       |           | 8          | 4       | 19.35     | 19.24   | 19.22   | 20.50   |         |
|       |           | 8          | 7       | 19.35     | 19.41   | 19.28   | 20.50   |         |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 26715   | 26865   | 27015   |         |       |
| 5MHz      | 256QAM     | 15      | 0         | 19.39   | 19.31   | 19.46   | 20.50   |       |
|           |            | 1       | 0         | 17.53   | 17.62   | 17.46   | 18.50   |       |
|           |            | 1       | 7         | 17.56   | 17.52   | 17.41   | 18.50   |       |
|           |            | 1       | 14        | 17.55   | 17.41   | 17.44   | 18.50   |       |
|           |            | 8       | 0         | 17.35   | 17.48   | 17.49   | 18.50   |       |
|           |            | 8       | 4         | 17.35   | 17.33   | 17.46   | 18.50   |       |
|           |            | 8       | 7         | 17.42   | 17.45   | 17.39   | 18.50   |       |
|           |            | 15      | 0         | 17.45   | 17.55   | 17.46   | 18.50   |       |
|           | QPSK       | 1       | 0         | 22.27   | 22.33   | 22.24   | 23.50   |       |
|           |            |         | 13        | 22.32   | 22.29   | 22.16   | 23.50   |       |
|           |            |         | 24        | 22.33   | 22.33   | 22.29   | 23.50   |       |
|           |            |         | 12        | 0       | 21.25   | 21.35   | 21.33   | 22.50 |
|           |            |         | 12        | 6       | 21.25   | 21.31   | 21.28   | 22.50 |
|           |            |         | 12        | 13      | 21.24   | 21.41   | 21.39   | 22.50 |
|           |            |         | 25        | 0       | 21.35   | 21.43   | 21.37   | 22.50 |
|           |            | 16QAM   | 1         | 0       | 21.45   | 21.69   | 21.61   | 22.50 |
|           |            |         | 1         | 13      | 21.39   | 21.61   | 21.43   | 22.50 |
|           |            |         | 1         | 24      | 21.41   | 21.51   | 21.39   | 22.50 |
|           |            |         | 12        | 0       | 20.31   | 20.29   | 20.40   | 21.50 |
|           |            |         | 12        | 6       | 20.26   | 20.26   | 20.20   | 21.50 |
|           |            |         | 12        | 13      | 20.36   | 20.34   | 20.35   | 21.50 |
|           |            |         | 25        | 0       | 20.34   | 20.44   | 20.40   | 21.50 |
|           |            | 64QAM   | 1         | 0       | 20.34   | 20.46   | 20.49   | 21.50 |
|           |            |         | 1         | 13      | 20.46   | 20.45   | 20.39   | 21.50 |
|           |            |         | 1         | 24      | 20.33   | 20.35   | 20.31   | 21.50 |
|           |            |         | 12        | 0       | 19.28   | 19.24   | 19.44   | 20.50 |
|           |            |         | 12        | 6       | 19.26   | 19.18   | 19.34   | 20.50 |
|           |            |         | 12        | 13      | 19.46   | 19.27   | 19.35   | 20.50 |
| 25        |            |         | 0         | 19.32   | 19.41   | 19.45   | 20.50   |       |
| 256QAM    |            | 1       | 0         | 17.68   | 17.46   | 17.44   | 18.50   |       |
|           |            | 1       | 13        | 17.55   | 17.49   | 17.53   | 18.50   |       |
|           |            | 1       | 24        | 17.60   | 17.46   | 17.46   | 18.50   |       |
|           | 12         | 0       | 17.36     | 17.39   | 17.45   | 18.50   |         |       |
|           | 12         | 6       | 17.37     | 17.48   | 17.37   | 18.50   |         |       |
|           | 12         | 13      | 17.39     | 17.49   | 17.43   | 18.50   |         |       |
|           | 25         | 0       | 17.53     | 17.53   | 17.45   | 18.50   |         |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |



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| Bandwidth | Modulation | RB size | RB offset | 26740 | 26865 | 26990 | Tune up |
|-----------|------------|---------|-----------|-------|-------|-------|---------|
|           |            |         |           | 26765 | 26865 | 26965 |         |
| 10MHz     | QPSK       | 1       | 0         | 22.39 | 22.39 | 22.39 | 23.50   |
|           |            | 1       | 25        | 22.32 | 22.42 | 22.19 | 23.50   |
|           |            | 1       | 49        | 22.26 | 22.22 | 22.25 | 23.50   |
|           |            | 25      | 0         | 21.39 | 21.31 | 21.36 | 22.50   |
|           |            | 25      | 13        | 21.31 | 21.24 | 21.37 | 22.50   |
|           |            | 25      | 25        | 21.36 | 21.25 | 21.40 | 22.50   |
|           |            | 50      | 0         | 21.24 | 21.48 | 21.32 | 22.50   |
|           | 16QAM      | 1       | 0         | 21.59 | 21.69 | 21.47 | 22.50   |
|           |            | 1       | 25        | 21.39 | 21.51 | 21.51 | 22.50   |
|           |            | 1       | 49        | 21.47 | 21.44 | 21.35 | 22.50   |
|           |            | 25      | 0         | 20.37 | 20.37 | 20.39 | 21.50   |
|           |            | 25      | 13        | 20.33 | 20.19 | 20.20 | 21.50   |
|           |            | 25      | 25        | 20.30 | 20.29 | 20.37 | 21.50   |
|           |            | 50      | 0         | 20.38 | 20.37 | 20.26 | 21.50   |
|           | 64QAM      | 1       | 0         | 20.40 | 20.44 | 20.43 | 21.50   |
|           |            | 1       | 25        | 20.49 | 20.51 | 20.22 | 21.50   |
|           |            | 1       | 49        | 20.38 | 20.41 | 20.38 | 21.50   |
|           |            | 25      | 0         | 19.26 | 19.34 | 19.27 | 20.50   |
|           |            | 25      | 13        | 19.26 | 19.34 | 19.21 | 20.50   |
|           |            | 25      | 25        | 19.30 | 19.35 | 19.26 | 20.50   |
|           |            | 50      | 0         | 19.41 | 19.32 | 19.34 | 20.50   |
|           | 256QAM     | 1       | 0         | 17.66 | 17.65 | 17.42 | 18.50   |
|           |            | 1       | 25        | 17.61 | 17.46 | 17.40 | 18.50   |
|           |            | 1       | 49        | 17.47 | 17.36 | 17.39 | 18.50   |
|           |            | 25      | 0         | 17.45 | 17.43 | 17.50 | 18.50   |
|           |            | 25      | 13        | 17.47 | 17.38 | 17.47 | 18.50   |
|           |            | 25      | 25        | 17.32 | 17.38 | 17.31 | 18.50   |
|           |            | 50      | 0         | 17.39 | 17.48 | 17.36 | 18.50   |
| 15MHz     | QPSK       | 1       | 0         | 22.37 | 22.31 | 22.33 | 23.50   |
|           |            | 1       | 38        | 22.28 | 22.35 | 22.23 | 23.50   |
| 1         |            | 74      | 22.33     | 22.32 | 22.27 | 23.50 |         |
| 36        |            | 0       | 21.30     | 21.35 | 21.30 | 22.50 |         |
| 36        |            | 18      | 21.29     | 21.29 | 21.30 | 22.50 |         |
| 36        |            | 39      | 21.32     | 21.33 | 21.33 | 22.50 |         |
| 75        |            | 0       | 21.34     | 21.39 | 21.34 | 22.50 |         |
| 16QAM     | 1          | 0       | 21.50     | 21.59 | 21.51 | 22.50 |         |



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|        |       |       |       |       |       |       |       |
|--------|-------|-------|-------|-------|-------|-------|-------|
|        |       | 1     | 38    | 21.45 | 21.54 | 21.41 | 22.50 |
|        |       | 1     | 74    | 21.49 | 21.50 | 21.35 | 22.50 |
|        |       | 36    | 0     | 20.27 | 20.35 | 20.33 | 21.50 |
|        |       | 36    | 18    | 20.30 | 20.29 | 20.29 | 21.50 |
|        |       | 36    | 39    | 20.32 | 20.35 | 20.36 | 21.50 |
|        |       | 75    | 0     | 20.33 | 20.39 | 20.33 | 21.50 |
|        | 64QAM | 1     | 0     | 20.43 | 20.43 | 20.41 | 21.50 |
|        |       | 1     | 38    | 20.39 | 20.45 | 20.31 | 21.50 |
|        |       | 1     | 74    | 20.42 | 20.39 | 20.40 | 21.50 |
|        |       | 36    | 0     | 19.27 | 19.33 | 19.37 | 20.50 |
|        |       | 36    | 18    | 19.29 | 19.28 | 19.28 | 20.50 |
|        |       | 36    | 39    | 19.37 | 19.36 | 19.30 | 20.50 |
| 256QAM | 75    | 0     | 19.33 | 19.39 | 19.36 | 20.50 |       |
|        | 1     | 0     | 17.58 | 17.55 | 17.47 | 18.50 |       |
|        | 1     | 38    | 17.57 | 17.56 | 17.48 | 18.50 |       |
|        | 1     | 74    | 17.57 | 17.46 | 17.45 | 18.50 |       |
|        | 36    | 0     | 17.43 | 17.47 | 17.43 | 18.50 |       |
|        | 36    | 18    | 17.43 | 17.40 | 17.39 | 18.50 |       |
|        | 36    | 39    | 17.39 | 17.44 | 17.41 | 18.50 |       |
| 75     | 0     | 17.46 | 17.50 | 17.42 | 18.50 |       |       |

| LTE Band 26 Eci3/7/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 26697                | 26865   | 27033   |         |
| 1.4MHz               | QPSK       | 1       | 0         | 20.93                | 20.82   | 20.67   | 22.00   |
|                      |            | 1       | 2         | 20.70                | 20.77   | 20.61   | 22.00   |
|                      |            | 1       | 5         | 20.78                | 20.50   | 20.56   | 22.00   |
|                      |            | 3       | 0         | 20.96                | 20.79   | 20.66   | 22.00   |
|                      |            | 3       | 2         | 20.90                | 20.58   | 20.62   | 22.00   |
|                      |            | 3       | 3         | 20.98                | 20.57   | 20.53   | 22.00   |
|                      | 16QAM      | 6       | 0         | 20.98                | 20.67   | 20.76   | 22.00   |
|                      |            | 1       | 0         | 20.69                | 20.71   | 20.57   | 22.00   |
|                      |            | 1       | 2         | 21.08                | 20.88   | 20.63   | 22.00   |
|                      |            | 1       | 5         | 20.94                | 20.58   | 20.79   | 22.00   |
|                      |            | 3       | 0         | 21.11                | 20.74   | 20.61   | 22.00   |
|                      |            | 3       | 2         | 21.12                | 20.62   | 20.75   | 22.00   |
|                      |            | 3       | 3         | 20.95                | 20.75   | 20.66   | 22.00   |
|                      |            | 6       | 0         | 20.52                | 20.08   | 20.00   | 21.50   |



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|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  | 64QAM             | 1              | 0                | 20.35          | 20.22          | 20.20          | 21.50          |
|                  |                   | 1              | 2                | 20.64          | 20.21          | 20.13          | 21.50          |
|                  |                   | 1              | 5                | 20.61          | 20.13          | 20.06          | 21.50          |
|                  |                   | 3              | 0                | 20.52          | 20.16          | 19.99          | 21.50          |
|                  |                   | 3              | 2                | 20.53          | 20.19          | 20.16          | 21.50          |
|                  |                   | 3              | 3                | 20.52          | 20.19          | 19.93          | 21.50          |
|                  |                   | 6              | 0                | 19.64          | 19.33          | 19.13          | 20.50          |
|                  | 256QAM            | 1              | 0                | 17.47          | 17.52          | 17.32          | 18.50          |
|                  |                   | 1              | 2                | 17.73          | 17.49          | 17.22          | 18.50          |
|                  |                   | 1              | 5                | 17.77          | 17.43          | 17.24          | 18.50          |
|                  |                   | 3              | 0                | 17.65          | 17.43          | 17.14          | 18.50          |
|                  |                   | 3              | 2                | 17.73          | 17.46          | 17.26          | 18.50          |
|                  |                   | 3              | 3                | 17.71          | 17.47          | 17.23          | 18.50          |
|                  |                   | 6              | 0                | 17.59          | 17.34          | 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> |
|                  |                   |                |                  | 26705          | 26865          | 27025          |                |
| <b>3MHz</b>      | QPSK              | 1              | 0                | 20.75          | 20.57          | 20.87          | 22.00          |
|                  |                   | 1              | 7                | 20.89          | 20.74          | 20.51          | 22.00          |
|                  |                   | 1              | 14               | 20.63          | 20.69          | 20.69          | 22.00          |
|                  |                   | 8              | 0                | 20.95          | 20.92          | 20.76          | 22.00          |
|                  |                   | 8              | 4                | 20.98          | 20.72          | 20.70          | 22.00          |
|                  |                   | 8              | 7                | 20.83          | 20.84          | 20.65          | 22.00          |
|                  |                   | 15             | 0                | 21.01          | 20.83          | 20.67          | 22.00          |
|                  | 16QAM             | 1              | 0                | 21.09          | 20.72          | 20.76          | 22.00          |
|                  |                   | 1              | 7                | 20.91          | 20.61          | 20.84          | 22.00          |
|                  |                   | 1              | 14               | 20.91          | 20.76          | 20.62          | 22.00          |
|                  |                   | 8              | 0                | 20.58          | 20.47          | 20.22          | 21.50          |
|                  |                   | 8              | 4                | 20.46          | 20.31          | 20.12          | 21.50          |
|                  |                   | 8              | 7                | 20.42          | 20.19          | 20.16          | 21.50          |
|                  |                   | 15             | 0                | 20.55          | 20.39          | 20.24          | 21.50          |
|                  | 64QAM             | 1              | 0                | 20.42          | 20.45          | 20.46          | 21.50          |
|                  |                   | 1              | 7                | 20.48          | 20.30          | 20.38          | 21.50          |
|                  |                   | 1              | 14               | 20.32          | 20.34          | 20.19          | 21.50          |
|                  |                   | 8              | 0                | 19.70          | 19.59          | 19.41          | 20.50          |
|                  |                   | 8              | 4                | 19.71          | 19.54          | 19.28          | 20.50          |
|                  |                   | 8              | 7                | 19.60          | 19.50          | 19.26          | 20.50          |
|                  |                   | 15             | 0                | 19.81          | 19.47          | 19.32          | 20.50          |
|                  | 256QAM            | 1              | 0                | 17.56          | 17.51          | 17.60          | 18.50          |
|                  |                   | 1              | 7                | 17.82          | 17.53          | 17.50          | 18.50          |



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|           |            | 1       | 14        | 17.57   | 17.52   | 17.30   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 0         | 17.72   | 17.50   | 17.36   | 18.50   |
|           |            | 8       | 4         | 17.58   | 17.50   | 17.43   | 18.50   |
|           |            | 8       | 7         | 17.61   | 17.39   | 17.33   | 18.50   |
|           |            | 15      | 0         | 17.65   | 17.47   | 17.32   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26715   | 26865   | 27015   |         |
| 5MHz      | QPSK       | 1       | 0         | 20.88   | 20.56   | 20.86   | 22.00   |
|           |            | 1       | 13        | 20.78   | 20.74   | 20.62   | 22.00   |
|           |            | 1       | 24        | 20.69   | 20.69   | 20.55   | 22.00   |
|           |            | 12      | 0         | 21.00   | 20.91   | 20.69   | 22.00   |
|           |            | 12      | 6         | 20.91   | 20.76   | 20.71   | 22.00   |
|           |            | 12      | 13        | 20.87   | 20.74   | 20.70   | 22.00   |
|           |            | 25      | 0         | 20.99   | 20.89   | 20.67   | 22.00   |
|           | 16QAM      | 1       | 0         | 21.14   | 20.86   | 20.90   | 22.00   |
|           |            | 1       | 13        | 20.99   | 20.72   | 20.95   | 22.00   |
|           |            | 1       | 24        | 20.80   | 20.72   | 20.74   | 22.00   |
|           |            | 12      | 0         | 20.63   | 20.48   | 20.26   | 21.50   |
|           |            | 12      | 6         | 20.40   | 20.18   | 20.13   | 21.50   |
|           |            | 12      | 13        | 20.42   | 20.29   | 20.24   | 21.50   |
|           |            | 25      | 0         | 20.48   | 20.25   | 20.25   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.47   | 20.37   | 20.44   | 21.50   |
|           |            | 1       | 13        | 20.56   | 20.40   | 20.30   | 21.50   |
|           |            | 1       | 24        | 20.45   | 20.35   | 20.15   | 21.50   |
|           |            | 12      | 0         | 19.69   | 19.62   | 19.42   | 20.50   |
|           |            | 12      | 6         | 19.67   | 19.51   | 19.35   | 20.50   |
|           |            | 12      | 13        | 19.58   | 19.39   | 19.33   | 20.50   |
|           |            | 25      | 0         | 19.80   | 19.58   | 19.46   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.58   | 17.53   | 17.52   | 18.50   |
|           |            | 1       | 13        | 17.77   | 17.57   | 17.43   | 18.50   |
|           |            | 1       | 24        | 17.52   | 17.55   | 17.27   | 18.50   |
|           |            | 12      | 0         | 17.72   | 17.50   | 17.45   | 18.50   |
|           |            | 12      | 6         | 17.72   | 17.44   | 17.30   | 18.50   |
|           |            | 12      | 13        | 17.48   | 17.36   | 17.24   | 18.50   |
|           |            | 25      | 0         | 17.73   | 17.47   | 17.31   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26740   | 26865   | 26990   |         |
| 10MHz     | QPSK       | 1       | 0         | 20.79   | 20.57   | 20.76   | 22.00   |
|           |            | 1       | 25        | 20.83   | 20.81   | 20.51   | 22.00   |



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|       |           | 1          | 49      | 20.66     | 20.60   | 20.60   | 22.00   |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 25         | 0       | 21.04     | 20.94   | 20.72   | 22.00   |         |
|       |           | 25         | 13      | 20.94     | 20.74   | 20.71   | 22.00   |         |
|       |           | 25         | 25      | 20.82     | 20.75   | 20.58   | 22.00   |         |
|       |           | 50         | 0       | 20.95     | 20.79   | 20.71   | 22.00   |         |
|       | 16QAM     | 1          | 0       | 21.21     | 20.84   | 20.78   | 22.00   |         |
|       |           | 1          | 25      | 21.00     | 20.64   | 20.92   | 22.00   |         |
|       |           | 1          | 49      | 20.86     | 20.82   | 20.72   | 22.00   |         |
|       |           | 25         | 0       | 20.62     | 20.35   | 20.21   | 21.50   |         |
|       |           | 25         | 13      | 20.44     | 20.28   | 20.16   | 21.50   |         |
|       |           | 25         | 25      | 20.46     | 20.27   | 20.22   | 21.50   |         |
|       |           | 50         | 0       | 20.55     | 20.25   | 20.25   | 21.50   |         |
|       | 64QAM     | 1          | 0       | 20.42     | 20.44   | 20.46   | 21.50   |         |
|       |           | 1          | 25      | 20.60     | 20.31   | 20.25   | 21.50   |         |
|       |           | 1          | 49      | 20.31     | 20.40   | 20.19   | 21.50   |         |
|       |           | 25         | 0       | 19.65     | 19.67   | 19.31   | 20.50   |         |
|       |           | 25         | 13      | 19.58     | 19.58   | 19.26   | 20.50   |         |
|       |           | 25         | 25      | 19.52     | 19.51   | 19.39   | 20.50   |         |
|       |           | 50         | 0       | 19.75     | 19.46   | 19.40   | 20.50   |         |
|       | 256QAM    | 1          | 0       | 17.60     | 17.50   | 17.53   | 18.50   |         |
|       |           | 1          | 25      | 17.72     | 17.64   | 17.44   | 18.50   |         |
|       |           | 1          | 49      | 17.56     | 17.48   | 17.31   | 18.50   |         |
|       |           | 25         | 0       | 17.65     | 17.58   | 17.34   | 18.50   |         |
|       |           | 25         | 13      | 17.68     | 17.54   | 17.30   | 18.50   |         |
|       |           | 25         | 25      | 17.51     | 17.46   | 17.22   | 18.50   |         |
|       |           | 50         | 0       | 17.63     | 17.48   | 17.37   | 18.50   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       | 15MHz     | QPSK       | 1       | 0         | 20.77   | 20.50   | 20.74   | 22.00   |
| 1     |           |            | 38      | 20.74     | 20.67   | 20.50   | 22.00   |         |
| 1     |           |            | 74      | 20.56     | 20.58   | 20.55   | 22.00   |         |
| 36    |           |            | 0       | 20.90     | 20.93   | 20.63   | 22.00   |         |
| 36    |           |            | 18      | 20.89     | 20.72   | 20.58   | 22.00   |         |
| 36    |           |            | 39      | 20.82     | 20.70   | 20.57   | 22.00   |         |
| 75    |           |            | 0       | 20.93     | 20.77   | 20.66   | 22.00   |         |
| 16QAM |           | 1          | 0       | 21.07     | 20.72   | 20.76   | 22.00   |         |
|       |           | 1          | 38      | 20.87     | 20.58   | 20.84   | 22.00   |         |
|       |           | 1          | 74      | 20.80     | 20.67   | 20.62   | 22.00   |         |
|       |           | 36         | 0       | 20.48     | 20.33   | 20.16   | 21.50   |         |
|       |           | 26765      | 26865   | 26965     |         |         |         |         |



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|       |        |    |       |       |       |       |       |
|-------|--------|----|-------|-------|-------|-------|-------|
| 64QAM | 36     | 18 | 20.37 | 20.18 | 20.07 | 21.50 |       |
|       | 36     | 39 | 20.35 | 20.18 | 20.13 | 21.50 |       |
|       | 75     | 0  | 20.42 | 20.24 | 20.17 | 21.50 |       |
|       | 1      | 0  | 20.34 | 20.34 | 20.33 | 21.50 |       |
|       | 1      | 38 | 20.45 | 20.30 | 20.24 | 21.50 |       |
|       | 1      | 74 | 20.31 | 20.27 | 20.08 | 21.50 |       |
|       | 36     | 0  | 19.63 | 19.58 | 19.27 | 20.50 |       |
|       | 36     | 18 | 19.58 | 19.44 | 19.25 | 20.50 |       |
|       | 36     | 39 | 19.48 | 19.39 | 19.26 | 20.50 |       |
|       | 75     | 0  | 19.67 | 19.45 | 19.32 | 20.50 |       |
|       | 256QAM | 1  | 0     | 17.47 | 17.39 | 17.48 | 18.50 |
|       |        | 1  | 38    | 17.67 | 17.53 | 17.37 | 18.50 |
|       |        | 1  | 74    | 17.46 | 17.42 | 17.24 | 18.50 |
|       |        | 36 | 0     | 17.61 | 17.47 | 17.34 | 18.50 |
| 36    |        | 18 | 17.58 | 17.40 | 17.28 | 18.50 |       |
| 36    |        | 39 | 17.46 | 17.35 | 17.22 | 18.50 |       |
| 75    |        | 0  | 17.59 | 17.45 | 17.29 | 18.50 |       |

| LTE Band 66 Eci2/4 |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz             | QPSK       | 1       | 0         | 20.97                | 20.99   | 20.93   | 22.00   |
|                    |            | 1       | 2         | 20.95                | 21.05   | 21.08   | 22.00   |
|                    |            | 1       | 5         | 21.01                | 21.03   | 21.17   | 22.00   |
|                    |            | 3       | 0         | 20.86                | 20.92   | 21.03   | 22.00   |
|                    |            | 3       | 1         | 20.91                | 20.88   | 21.07   | 22.00   |
|                    |            | 3       | 3         | 21.00                | 21.07   | 21.02   | 22.00   |
|                    | 16QAM      | 1       | 0         | 20.27                | 19.99   | 20.08   | 21.00   |
|                    |            | 1       | 2         | 20.06                | 19.96   | 20.07   | 21.00   |
|                    |            | 1       | 5         | 20.08                | 20.10   | 20.26   | 21.00   |
|                    |            | 3       | 0         | 19.80                | 19.99   | 19.99   | 21.00   |
|                    |            | 3       | 1         | 19.92                | 19.95   | 20.09   | 21.00   |
|                    |            | 3       | 3         | 19.95                | 20.06   | 20.00   | 21.00   |
|                    | 64QAM      | 1       | 0         | 18.99                | 18.79   | 18.93   | 20.00   |
|                    |            | 1       | 2         | 19.04                | 19.00   | 19.13   | 20.00   |
|                    |            | 1       | 5         | 19.27                | 19.12   | 19.11   | 20.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 131987  | 132322  | 132657  |         |       |
| 3MHz      | 256QAM     | 3       | 0         | 18.79   | 18.93   | 18.95   | 20.00   |       |
|           |            | 3       | 1         | 18.95   | 19.03   | 19.14   | 20.00   |       |
|           |            | 3       | 3         | 19.00   | 19.05   | 19.13   | 20.00   |       |
|           |            | 6       | 0         | 17.82   | 17.92   | 18.01   | 19.00   |       |
|           |            | 1       | 0         | 16.13   | 16.08   | 16.11   | 17.00   |       |
|           |            | 1       | 2         | 16.16   | 16.09   | 16.16   | 17.00   |       |
|           |            | 1       | 5         | 16.17   | 16.21   | 16.30   | 17.00   |       |
|           | 3          | 0       | 15.94     | 15.82   | 16.02   | 17.00   |         |       |
|           | 3          | 1       | 16.12     | 15.93   | 15.99   | 17.00   |         |       |
|           | 3          | 3       | 15.95     | 16.00   | 16.11   | 17.00   |         |       |
|           | 6          | 0       | 16.01     | 15.95   | 15.92   | 17.00   |         |       |
|           | 3MHz       | QPSK    | 1         | 0       | 20.85   | 20.90   | 21.05   | 22.00 |
|           |            |         | 1         | 7       | 20.91   | 20.91   | 20.93   | 22.00 |
|           |            |         | 1         | 14      | 21.06   | 21.00   | 21.17   | 22.00 |
|           |            |         | 8         | 0       | 19.89   | 19.84   | 19.97   | 21.00 |
|           |            |         | 8         | 4       | 20.04   | 19.97   | 19.99   | 21.00 |
|           |            |         | 8         | 7       | 19.88   | 20.11   | 20.05   | 21.00 |
|           |            |         | 15        | 0       | 19.86   | 20.08   | 20.01   | 21.00 |
|           |            | 16QAM   | 1         | 0       | 20.24   | 20.11   | 20.19   | 21.00 |
|           |            |         | 1         | 7       | 20.09   | 20.06   | 20.17   | 21.00 |
|           |            |         | 1         | 14      | 20.14   | 20.03   | 20.24   | 21.00 |
|           |            |         | 8         | 0       | 18.88   | 18.98   | 19.03   | 20.00 |
|           |            |         | 8         | 4       | 18.87   | 18.91   | 19.08   | 20.00 |
|           |            |         | 8         | 7       | 18.95   | 18.95   | 18.98   | 20.00 |
|           |            |         | 15        | 0       | 18.81   | 18.93   | 19.03   | 20.00 |
|           |            | 64QAM   | 1         | 0       | 19.09   | 18.93   | 18.95   | 20.00 |
|           |            |         | 1         | 7       | 19.18   | 19.01   | 19.13   | 20.00 |
|           |            |         | 1         | 14      | 19.27   | 19.07   | 19.24   | 20.00 |
| 8         |            |         | 0         | 17.90   | 17.85   | 17.95   | 19.00   |       |
| 8         |            |         | 4         | 18.01   | 17.88   | 18.09   | 19.00   |       |
| 8         |            |         | 7         | 17.95   | 18.01   | 18.04   | 19.00   |       |
| 15        |            |         | 0         | 17.95   | 17.88   | 18.05   | 19.00   |       |
| 256QAM    |            | 1       | 0         | 16.15   | 16.10   | 16.16   | 17.00   |       |
|           |            | 1       | 7         | 16.02   | 16.07   | 16.11   | 17.00   |       |
|           |            | 1       | 14        | 16.15   | 16.18   | 16.12   | 17.00   |       |
|           |            | 8       | 0         | 15.91   | 15.78   | 16.01   | 17.00   |       |
|           |            | 8       | 4         | 16.08   | 15.96   | 16.08   | 17.00   |       |



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| Bandwidth | Modulation | RB size | RB offset | 8       | 7       | 16.01   | 15.97   | 16.12 | 17.00 |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|-------|
|           |            |         |           | 15      | 0       | 15.93   | 15.88   | 15.99 | 17.00 |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |       |
|           |            |         |           | 131997  | 132322  | 132647  |         |       |       |
| 5MHz      | QPSK       | 1       | 0         | 20.87   | 20.97   | 21.05   | 22.00   |       |       |
|           |            | 1       | 13        | 20.82   | 20.97   | 21.04   | 22.00   |       |       |
|           |            | 1       | 24        | 20.95   | 21.07   | 21.16   | 22.00   |       |       |
|           |            | 12      | 0         | 19.95   | 19.96   | 20.13   | 21.00   |       |       |
|           |            | 12      | 6         | 19.96   | 20.06   | 20.01   | 21.00   |       |       |
|           |            | 12      | 13        | 19.95   | 20.10   | 20.00   | 21.00   |       |       |
|           |            | 25      | 0         | 19.91   | 19.99   | 19.98   | 21.00   |       |       |
|           | 16QAM      | 1       | 0         | 20.22   | 19.96   | 20.14   | 21.00   |       |       |
|           |            | 1       | 13        | 20.11   | 20.03   | 20.19   | 21.00   |       |       |
|           |            | 1       | 24        | 20.18   | 20.09   | 20.21   | 21.00   |       |       |
|           |            | 12      | 0         | 18.88   | 18.90   | 19.01   | 20.00   |       |       |
|           |            | 12      | 6         | 18.94   | 18.88   | 19.06   | 20.00   |       |       |
|           |            | 12      | 13        | 19.06   | 19.13   | 19.03   | 20.00   |       |       |
|           |            | 25      | 0         | 18.89   | 18.86   | 18.99   | 20.00   |       |       |
|           | 64QAM      | 1       | 0         | 18.98   | 18.82   | 19.06   | 20.00   |       |       |
|           |            | 1       | 13        | 18.98   | 18.98   | 19.11   | 20.00   |       |       |
|           |            | 1       | 24        | 19.26   | 19.08   | 19.20   | 20.00   |       |       |
|           |            | 12      | 0         | 17.81   | 17.85   | 18.12   | 19.00   |       |       |
|           |            | 12      | 6         | 18.03   | 18.01   | 18.12   | 19.00   |       |       |
|           |            | 12      | 13        | 17.87   | 18.07   | 18.13   | 19.00   |       |       |
|           |            | 25      | 0         | 17.99   | 17.90   | 18.13   | 19.00   |       |       |
|           | 256QAM     | 1       | 0         | 16.17   | 16.01   | 16.06   | 17.00   |       |       |
|           |            | 1       | 13        | 16.03   | 15.97   | 16.02   | 17.00   |       |       |
|           |            | 1       | 24        | 16.17   | 16.23   | 16.22   | 17.00   |       |       |
|           |            | 12      | 0         | 16.09   | 15.94   | 16.03   | 17.00   |       |       |
|           |            | 12      | 6         | 15.97   | 15.83   | 15.99   | 17.00   |       |       |
|           |            | 12      | 13        | 16.01   | 15.95   | 16.13   | 17.00   |       |       |
|           |            | 25      | 0         | 16.13   | 15.98   | 16.08   | 17.00   |       |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |       |
|           |            |         |           | 132022  | 132322  | 132622  |         |       |       |
| 10MHz     | QPSK       | 1       | 0         | 20.95   | 20.90   | 20.93   | 22.00   |       |       |
|           |            | 1       | 25        | 20.84   | 21.00   | 20.97   | 22.00   |       |       |
|           |            | 1       | 49        | 20.97   | 21.05   | 21.16   | 22.00   |       |       |
|           |            | 25      | 0         | 19.80   | 19.88   | 19.95   | 21.00   |       |       |
|           |            | 25      | 13        | 19.92   | 19.92   | 19.99   | 21.00   |       |       |



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|       | 16QAM     | 25         | 25      | 19.96     | 20.05   | 20.11   | 21.00   |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 50         | 0       | 19.90     | 19.96   | 20.15   | 21.00   |         |
|       |           | 1          | 0       | 20.20     | 19.97   | 20.19   | 21.00   |         |
|       |           | 1          | 25      | 20.08     | 19.92   | 20.19   | 21.00   |         |
|       |           | 1          | 49      | 20.03     | 20.08   | 20.34   | 21.00   |         |
|       |           | 25         | 0       | 18.91     | 18.91   | 19.04   | 20.00   |         |
|       |           | 25         | 13      | 18.97     | 18.91   | 18.99   | 20.00   |         |
|       |           | 25         | 25      | 18.99     | 18.95   | 19.01   | 20.00   |         |
|       |           | 50         | 0       | 18.86     | 19.05   | 19.06   | 20.00   |         |
|       | 64QAM     | 1          | 0       | 19.06     | 18.87   | 18.97   | 20.00   |         |
|       |           | 1          | 25      | 19.03     | 18.96   | 19.02   | 20.00   |         |
|       |           | 1          | 49      | 19.13     | 19.05   | 19.23   | 20.00   |         |
|       |           | 25         | 0       | 17.83     | 17.83   | 18.06   | 19.00   |         |
|       |           | 25         | 13      | 17.91     | 18.06   | 18.10   | 19.00   |         |
|       |           | 25         | 25      | 17.93     | 17.91   | 18.14   | 19.00   |         |
|       |           | 50         | 0       | 17.90     | 17.89   | 18.13   | 19.00   |         |
|       | 256QAM    | 1          | 0       | 16.05     | 16.05   | 16.18   | 17.00   |         |
|       |           | 1          | 25      | 16.06     | 16.06   | 16.05   | 17.00   |         |
|       |           | 1          | 49      | 16.19     | 16.27   | 16.17   | 17.00   |         |
|       |           | 25         | 0       | 15.97     | 15.90   | 16.06   | 17.00   |         |
|       |           | 25         | 13      | 16.13     | 15.92   | 15.98   | 17.00   |         |
|       |           | 25         | 25      | 16.07     | 15.95   | 16.11   | 17.00   |         |
|       |           | 50         | 0       | 16.07     | 15.99   | 16.10   | 17.00   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 132047  | 132322  | 132597  |         |
|       | 15MHz     | QPSK       | 1       | 0         | 20.97   | 20.94   | 20.86   | 22.00   |
|       |           |            | 1       | 38        | 20.83   | 20.90   | 21.08   | 22.00   |
|       |           |            | 1       | 74        | 20.88   | 21.00   | 21.13   | 22.00   |
| 36    |           |            | 0       | 19.95     | 19.94   | 19.99   | 21.00   |         |
| 36    |           |            | 18      | 19.93     | 19.87   | 20.08   | 21.00   |         |
| 36    |           |            | 39      | 20.01     | 20.08   | 20.19   | 21.00   |         |
| 16QAM |           | 75         | 0       | 19.91     | 19.99   | 20.14   | 21.00   |         |
|       |           | 1          | 0       | 20.23     | 19.94   | 20.14   | 21.00   |         |
|       |           | 1          | 38      | 20.12     | 20.06   | 20.23   | 21.00   |         |
|       |           | 1          | 74      | 20.15     | 20.10   | 20.25   | 21.00   |         |
|       |           | 36         | 0       | 18.86     | 18.91   | 19.07   | 20.00   |         |
|       |           | 36         | 18      | 18.94     | 18.97   | 19.09   | 20.00   |         |
|       |           | 36         | 39      | 19.06     | 18.97   | 19.06   | 20.00   |         |
|       |           | 75         | 0       | 18.95     | 18.90   | 19.01   | 20.00   |         |



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|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  | 64QAM             | 1              | 0                | 18.99          | 18.82          | 18.95          | 20.00          |
|                  |                   | 1              | 38               | 19.04          | 18.95          | 19.12          | 20.00          |
|                  |                   | 1              | 74               | 19.18          | 19.02          | 19.23          | 20.00          |
|                  |                   | 36             | 0                | 17.83          | 17.80          | 18.13          | 19.00          |
|                  |                   | 36             | 18               | 17.92          | 17.97          | 18.06          | 19.00          |
|                  |                   | 36             | 39               | 17.98          | 18.03          | 18.19          | 19.00          |
|                  |                   | 75             | 0                | 17.85          | 18.01          | 18.10          | 19.00          |
|                  | 256QAM            | 1              | 0                | 16.06          | 16.12          | 16.22          | 17.00          |
|                  |                   | 1              | 38               | 16.09          | 16.11          | 16.02          | 17.00          |
|                  |                   | 1              | 74               | 16.23          | 16.24          | 16.21          | 17.00          |
|                  |                   | 36             | 0                | 16.05          | 15.79          | 16.07          | 17.00          |
|                  |                   | 36             | 18               | 16.04          | 15.87          | 15.91          | 17.00          |
|                  |                   | 36             | 39               | 15.93          | 16.05          | 16.08          | 17.00          |
|                  |                   | 75             | 0                | 16.09          | 15.91          | 16.10          | 17.00          |
| <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> |
|                  |                   |                |                  | 132072         | 132322         | 132572         |                |
| <b>20MHz</b>     | QPSK              | 1              | 0                | 20.91          | 20.90          | 20.95          | 22.00          |
|                  |                   | 1              | 50               | 20.91          | 20.95          | 21.03          | 22.00          |
|                  |                   | 1              | 99               | 20.96          | 21.03          | 21.13          | 22.00          |
|                  |                   | 50             | 0                | 19.90          | 19.93          | 20.04          | 21.00          |
|                  |                   | 50             | 25               | 19.95          | 19.97          | 20.03          | 21.00          |
|                  |                   | 50             | 50               | 19.97          | 20.05          | 20.09          | 21.00          |
|                  |                   | 100            | 0                | 19.93          | 19.99          | 20.08          | 21.00          |
|                  | 16QAM             | 1              | 0                | 20.27          | 20.04          | 20.17          | 21.00          |
|                  |                   | 1              | 50               | 20.14          | 20.01          | 20.16          | 21.00          |
|                  |                   | 1              | 99               | 20.10          | 20.11          | 20.24          | 21.00          |
|                  |                   | 50             | 0                | 18.90          | 18.92          | 19.05          | 20.00          |
|                  |                   | 50             | 25               | 18.94          | 18.96          | 19.02          | 20.00          |
|                  |                   | 50             | 50               | 18.96          | 19.05          | 19.05          | 20.00          |
|                  |                   | 100            | 0                | 18.88          | 18.96          | 19.04          | 20.00          |
|                  | 64QAM             | 1              | 0                | 19.07          | 18.86          | 19.00          | 20.00          |
|                  |                   | 1              | 50               | 19.08          | 19.00          | 19.11          | 20.00          |
|                  |                   | 1              | 99               | 19.18          | 19.11          | 19.17          | 20.00          |
|                  |                   | 50             | 0                | 17.89          | 17.90          | 18.05          | 19.00          |
|                  |                   | 50             | 25               | 17.94          | 17.96          | 18.05          | 19.00          |
|                  |                   | 50             | 50               | 17.95          | 18.00          | 18.09          | 19.00          |
|                  |                   | 100            | 0                | 17.91          | 17.97          | 18.04          | 19.00          |
|                  | 256QAM            | 1              | 0                | 16.13          | 16.03          | 16.12          | 17.00          |
|                  |                   | 1              | 50               | 16.09          | 16.03          | 16.07          | 17.00          |



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| Bandwidth | Modulation | RB size | RB offset | 131987  | 132322  | 132657  | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | Channel | Channel | Channel |         |
| 3MHz      | QPSK       | 1       | 0         | 14.90   | 14.80   | 14.77   | 16.00   |
|           |            | 1       | 7         | 15.01   | 14.86   | 14.85   | 16.00   |
|           |            | 1       | 14        | 15.03   | 14.81   | 14.82   | 16.00   |
|           |            | 8       | 0         | 14.88   | 14.75   | 14.84   | 16.00   |
|           |            | 8       | 4         | 14.94   | 14.93   | 14.83   | 16.00   |
|           |            | 8       | 7         | 15.00   | 14.93   | 14.90   | 16.00   |
|           |            | 15      | 0         | 15.00   | 14.83   | 14.93   | 16.00   |
|           | 16QAM      | 1       | 0         | 15.19   | 15.04   | 14.92   | 16.00   |
|           |            | 1       | 7         | 15.18   | 15.02   | 15.02   | 16.00   |
|           |            | 1       | 14        | 15.14   | 15.00   | 14.93   | 16.00   |
|           |            | 8       | 0         | 14.92   | 14.84   | 14.80   | 16.00   |
|           |            | 8       | 4         | 14.99   | 14.87   | 14.91   | 16.00   |
|           |            | 8       | 7         | 15.01   | 14.90   | 14.87   | 16.00   |
|           |            | 15      | 0         | 15.01   | 14.78   | 14.84   | 16.00   |
|           | 64QAM      | 1       | 0         | 14.99   | 15.00   | 14.79   | 16.00   |
|           |            | 1       | 7         | 15.05   | 14.84   | 14.88   | 16.00   |
|           |            | 1       | 14        | 15.06   | 14.89   | 14.93   | 16.00   |
|           |            | 8       | 0         | 14.91   | 14.80   | 14.89   | 16.00   |
|           |            | 8       | 4         | 14.98   | 14.97   | 14.93   | 16.00   |
|           |            | 8       | 7         | 14.95   | 14.81   | 14.90   | 16.00   |
|           |            | 15      | 0         | 14.99   | 14.91   | 14.81   | 16.00   |
|           | 256QAM     | 1       | 0         | 14.93   | 14.85   | 14.75   | 16.00   |
|           |            | 1       | 7         | 15.01   | 14.85   | 14.97   | 16.00   |
|           |            | 1       | 14        | 15.19   | 14.94   | 14.98   | 16.00   |
|           |            | 8       | 0         | 14.85   | 14.72   | 14.89   | 16.00   |
|           |            | 8       | 4         | 15.01   | 14.84   | 14.85   | 16.00   |
|           |            | 8       | 7         | 14.88   | 14.84   | 14.84   | 16.00   |
|           |            | 15      | 0         | 14.90   | 14.83   | 14.88   | 16.00   |
| 5MHz      | QPSK       | 1       | 0         | 14.94   | 14.78   | 14.83   | 16.00   |
|           |            | 1       | 13        | 14.92   | 14.92   | 14.86   | 16.00   |
| 1         |            | 24      | 15.04     | 14.85   | 14.85   | 16.00   |         |
| 12        |            | 0       | 14.89     | 14.79   | 14.81   | 16.00   |         |
| 12        |            | 6       | 15.01     | 14.86   | 14.89   | 16.00   |         |
| 12        |            | 13      | 14.95     | 14.94   | 14.92   | 16.00   |         |
| 25        |            | 0       | 14.99     | 14.85   | 14.94   | 16.00   |         |
| 16QAM     | 1          | 0       | 15.27     | 14.99   | 14.87   | 16.00   |         |



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|       |        |    |                  |                   |                |                  |                |                |                |
|-------|--------|----|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|
|       |        | 1  | 13               | 15.09             | 14.97          | 14.99            | 16.00          |                |                |
|       |        | 1  | 24               | 15.18             | 14.99          | 15.00            | 16.00          |                |                |
|       |        | 12 | 0                | 14.90             | 14.87          | 14.81            | 16.00          |                |                |
|       |        | 12 | 6                | 14.93             | 14.91          | 14.87            | 16.00          |                |                |
|       |        | 12 | 13               | 14.94             | 14.91          | 14.96            | 16.00          |                |                |
|       |        | 25 | 0                | 14.97             | 14.80          | 14.81            | 16.00          |                |                |
|       | 64QAM  | 1  | 0                | 14.96             | 14.88          | 14.85            | 16.00          |                |                |
|       |        | 1  | 13               | 15.05             | 14.92          | 14.86            | 16.00          |                |                |
|       |        | 1  | 24               | 15.00             | 14.91          | 14.97            | 16.00          |                |                |
|       |        | 12 | 0                | 14.88             | 14.85          | 14.84            | 16.00          |                |                |
|       |        | 12 | 6                | 14.93             | 14.87          | 14.94            | 16.00          |                |                |
|       |        | 12 | 13               | 14.96             | 14.81          | 14.98            | 16.00          |                |                |
|       | 256QAM | 25 | 0                | 14.92             | 14.87          | 14.91            | 16.00          |                |                |
|       |        | 1  | 0                | 14.96             | 14.97          | 14.66            | 16.00          |                |                |
|       |        | 1  | 13               | 14.98             | 14.83          | 14.91            | 16.00          |                |                |
|       |        | 1  | 24               | 15.19             | 14.92          | 15.01            | 16.00          |                |                |
|       |        | 12 | 0                | 14.86             | 14.74          | 14.84            | 16.00          |                |                |
|       |        | 12 | 6                | 14.95             | 14.86          | 14.93            | 16.00          |                |                |
|       | 10MHz  |    | 12               | 13                | 14.89          | 14.93            | 14.91          | 16.00          |                |
|       |        |    | 25               | 0                 | 15.00          | 14.80            | 14.83          | 16.00          |                |
|       |        |    | <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> |
|       |        |    |                  |                   |                | 132022           | 132322         | 132622         |                |
| QPSK  |        |    | 1                | 0                 | 14.98          | 14.83            | 14.80          | 16.00          |                |
|       |        |    | 1                | 25                | 14.95          | 14.85            | 14.89          | 16.00          |                |
|       |        | 1  | 49               | 14.97             | 14.85          | 14.81            | 16.00          |                |                |
|       |        | 25 | 0                | 14.95             | 14.75          | 14.89            | 16.00          |                |                |
|       |        | 25 | 13               | 14.97             | 14.93          | 14.83            | 16.00          |                |                |
|       |        | 25 | 25               | 15.01             | 14.97          | 14.98            | 16.00          |                |                |
| 16QAM |        | 50 | 0                | 14.91             | 14.81          | 14.94            | 16.00          |                |                |
|       |        | 1  | 0                | 15.24             | 15.01          | 14.98            | 16.00          |                |                |
|       |        | 1  | 25               | 15.15             | 14.99          | 15.01            | 16.00          |                |                |
|       |        | 1  | 49               | 15.11             | 15.03          | 14.97            | 16.00          |                |                |
|       |        | 25 | 0                | 14.87             | 14.80          | 14.81            | 16.00          |                |                |
|       |        | 25 | 13               | 14.93             | 14.94          | 14.93            | 16.00          |                |                |
| 64QAM |        | 25 | 25               | 15.01             | 14.95          | 14.92            | 16.00          |                |                |
|       |        | 50 | 0                | 14.91             | 14.80          | 14.80            | 16.00          |                |                |
|       |        | 1  | 0                | 14.94             | 14.90          | 14.77            | 16.00          |                |                |
|       |        |    | 1                | 25                | 15.05          | 14.90            | 14.94          | 16.00          |                |
|       |        |    | 1                | 49                | 15.01          | 14.94            | 14.93          | 16.00          |                |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 132047  | 132322  | 132597  |         |       |
| 15MHz     | 256QAM     | 25      | 0         | 14.93   | 14.82   | 14.88   | 16.00   |       |
|           |            | 25      | 13        | 14.98   | 14.95   | 14.94   | 16.00   |       |
|           |            | 25      | 25        | 14.96   | 14.91   | 14.89   | 16.00   |       |
|           |            | 50      | 0         | 14.90   | 14.85   | 14.81   | 16.00   |       |
|           |            | 1       | 0         | 14.93   | 14.96   | 14.70   | 16.00   |       |
|           |            | 1       | 25        | 15.06   | 14.89   | 14.92   | 16.00   |       |
|           |            | 1       | 49        | 15.16   | 14.86   | 15.07   | 16.00   |       |
|           |            | 25      | 0         | 14.91   | 14.72   | 14.83   | 16.00   |       |
|           | 25         | 13      | 14.92     | 14.93   | 14.88   | 16.00   |         |       |
|           | 25         | 25      | 14.91     | 14.94   | 14.84   | 16.00   |         |       |
|           | 50         | 0       | 14.93     | 14.83   | 14.87   | 16.00   |         |       |
|           | 15MHz      | QPSK    | 1         | 0       | 14.87   | 14.86   | 14.71   | 16.00 |
|           |            |         | 1         | 38      | 14.89   | 14.88   | 14.89   | 16.00 |
|           |            |         | 1         | 74      | 15.03   | 14.80   | 14.91   | 16.00 |
|           |            |         | 36        | 0       | 14.98   | 14.82   | 14.91   | 16.00 |
|           |            |         | 36        | 18      | 15.04   | 14.90   | 14.86   | 16.00 |
|           |            |         | 36        | 39      | 15.00   | 14.97   | 14.96   | 16.00 |
|           |            |         | 75        | 0       | 14.96   | 14.80   | 14.91   | 16.00 |
|           |            | 16QAM   | 1         | 0       | 15.15   | 14.95   | 14.91   | 16.00 |
|           |            |         | 1         | 38      | 15.10   | 15.05   | 14.93   | 16.00 |
|           |            |         | 1         | 74      | 15.15   | 15.03   | 14.94   | 16.00 |
|           |            |         | 36        | 0       | 14.90   | 14.79   | 14.80   | 16.00 |
|           |            |         | 36        | 18      | 14.98   | 14.94   | 14.92   | 16.00 |
|           |            |         | 36        | 39      | 14.92   | 14.85   | 14.97   | 16.00 |
|           |            |         | 75        | 0       | 14.91   | 14.81   | 14.87   | 16.00 |
|           |            | 64QAM   | 1         | 0       | 14.94   | 14.92   | 14.89   | 16.00 |
|           |            |         | 1         | 38      | 15.00   | 14.90   | 14.89   | 16.00 |
|           |            |         | 1         | 74      | 15.08   | 14.84   | 14.92   | 16.00 |
| 36        |            |         | 0         | 14.95   | 14.85   | 14.82   | 16.00   |       |
| 36        |            |         | 18        | 14.96   | 14.92   | 14.85   | 16.00   |       |
| 36        |            |         | 39        | 14.94   | 14.90   | 14.92   | 16.00   |       |
| 75        |            |         | 0         | 14.94   | 14.82   | 14.87   | 16.00   |       |
| 256QAM    |            | 1       | 0         | 14.98   | 14.86   | 14.66   | 16.00   |       |
|           |            | 1       | 38        | 15.05   | 14.82   | 14.93   | 16.00   |       |
|           |            | 1       | 74        | 15.17   | 14.83   | 14.97   | 16.00   |       |
|           |            | 36      | 0         | 14.91   | 14.73   | 14.91   | 16.00   |       |
|           |            | 36      | 18        | 14.89   | 14.90   | 14.92   | 16.00   |       |



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| Bandwidth | Modulation | 36      | 39        | 14.89   | 14.87   | 14.92   | 16.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 75      | 0         | 14.95   | 14.82   | 14.87   | 16.00   |
|           |            | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 15.00   | 14.88   | 14.84   |         |
|           |            | 1       | 50        | 15.02   | 14.95   | 14.98   | 16.00   |
|           |            | 1       | 99        | 15.08   | 14.96   | 15.09   | 16.00   |
|           |            | 50      | 0         | 15.00   | 14.86   | 14.94   | 16.00   |
|           |            | 50      | 25        | 15.01   | 14.97   | 14.95   | 16.00   |
|           |            | 50      | 50        | 15.05   | 15.00   | 15.08   | 16.00   |
|           |            | 100     | 0         | 15.02   | 14.90   | 14.95   | 16.00   |
|           | 16QAM      | 1       | 0         | 15.28   | 15.06   | 14.99   | 16.00   |
|           |            | 1       | 50        | 15.20   | 15.08   | 15.06   | 16.00   |
|           |            | 1       | 99        | 15.22   | 15.11   | 15.02   | 16.00   |
|           |            | 50      | 0         | 14.97   | 14.90   | 14.91   | 16.00   |
|           |            | 50      | 25        | 15.05   | 14.99   | 14.96   | 16.00   |
|           |            | 50      | 50        | 15.05   | 14.98   | 14.98   | 16.00   |
|           |            | 100     | 0         | 15.02   | 14.91   | 14.92   | 16.00   |
|           | 64QAM      | 1       | 0         | 15.06   | 15.01   | 14.90   | 16.00   |
|           |            | 1       | 50        | 15.12   | 14.94   | 14.99   | 16.00   |
|           |            | 1       | 99        | 15.13   | 14.97   | 15.02   | 16.00   |
|           |            | 50      | 0         | 15.00   | 14.88   | 14.94   | 16.00   |
|           |            | 50      | 25        | 15.05   | 14.99   | 14.96   | 16.00   |
|           |            | 50      | 50        | 15.02   | 14.94   | 15.01   | 16.00   |
|           |            | 100     | 0         | 15.02   | 14.92   | 14.94   | 16.00   |
|           | 256QAM     | 1       | 0         | 15.04   | 14.98   | 14.76   | 16.00   |
|           |            | 1       | 50        | 15.08   | 14.93   | 14.99   | 16.00   |
|           |            | 1       | 99        | 15.20   | 14.95   | 15.09   | 16.00   |
|           |            | 50      | 0         | 14.96   | 14.85   | 14.93   | 16.00   |
|           |            | 50      | 25        | 15.02   | 14.97   | 14.95   | 16.00   |
|           |            | 50      | 50        | 15.00   | 14.97   | 14.97   | 16.00   |
|           |            | 100     | 0         | 15.03   | 14.92   | 14.94   | 16.00   |

| LTE Band 66 Eci6 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz           | QPSK       | 1       | 0         | 19.62                | 19.41   | 19.41   | 20.50   |
|                  |            | 1       | 2         | 19.47                | 19.48   | 19.56   | 20.50   |



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|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 5         | 19.59   | 19.39   | 19.58   | 20.50   |
|           |            | 3       | 0         | 19.48   | 19.36   | 19.46   | 20.50   |
|           |            | 3       | 1         | 19.49   | 19.42   | 19.37   | 20.50   |
|           |            | 3       | 3         | 19.65   | 19.47   | 19.58   | 20.50   |
|           |            | 6       | 0         | 19.42   | 19.44   | 19.38   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.86   | 19.61   | 19.47   | 20.50   |
|           |            | 1       | 2         | 19.66   | 19.54   | 19.47   | 20.50   |
|           |            | 1       | 5         | 19.64   | 19.69   | 19.55   | 20.50   |
|           |            | 3       | 0         | 18.96   | 18.97   | 18.90   | 20.50   |
|           |            | 3       | 1         | 19.14   | 19.09   | 19.00   | 20.50   |
|           |            | 3       | 3         | 19.08   | 19.01   | 19.03   | 20.50   |
|           | 64QAM      | 6       | 0         | 19.01   | 18.93   | 18.84   | 20.00   |
|           |            | 1       | 0         | 19.07   | 19.02   | 18.90   | 20.00   |
|           |            | 1       | 2         | 19.06   | 18.84   | 19.03   | 20.00   |
|           |            | 1       | 5         | 19.16   | 18.87   | 19.12   | 20.00   |
|           |            | 3       | 0         | 18.98   | 19.05   | 18.92   | 20.00   |
|           |            | 3       | 1         | 19.01   | 18.88   | 18.83   | 20.00   |
|           |            | 3       | 3         | 19.01   | 18.93   | 18.80   | 20.00   |
|           | 256QAM     | 6       | 0         | 18.06   | 17.91   | 17.98   | 19.00   |
|           |            | 1       | 0         | 16.05   | 15.90   | 15.66   | 17.00   |
|           |            | 1       | 2         | 16.13   | 15.86   | 16.04   | 17.00   |
| 1         |            | 5       | 16.28     | 15.97   | 16.12   | 17.00   |         |
| 3         |            | 0       | 15.93     | 15.78   | 16.01   | 17.00   |         |
| 3         |            | 1       | 16.04     | 15.89   | 15.94   | 17.00   |         |
| 3         |            | 3       | 15.90     | 16.03   | 16.07   | 17.00   |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131987  | 132322  | 132657  |         |
| 3MHz      | QPSK       | 1       | 0         | 19.64   | 19.38   | 19.32   | 20.50   |
|           |            | 1       | 7         | 19.51   | 19.36   | 19.46   | 20.50   |
|           |            | 1       | 14        | 19.65   | 19.48   | 19.62   | 20.50   |
|           |            | 8       | 0         | 19.46   | 19.41   | 19.52   | 20.50   |
|           |            | 8       | 4         | 19.43   | 19.53   | 19.36   | 20.50   |
|           |            | 8       | 7         | 19.50   | 19.45   | 19.65   | 20.50   |
|           |            | 15      | 0         | 19.48   | 19.36   | 19.53   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.84   | 19.50   | 19.54   | 20.50   |
|           |            | 1       | 7         | 19.71   | 19.49   | 19.50   | 20.50   |
|           |            | 1       | 14        | 19.65   | 19.65   | 19.56   | 20.50   |
|           |            | 8       | 0         | 19.04   | 18.85   | 18.97   | 20.00   |



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|       |                  |            |         |           |         |         |         |         |
|-------|------------------|------------|---------|-----------|---------|---------|---------|---------|
|       |                  | 8          | 4       | 18.96     | 18.97   | 18.97   | 20.00   |         |
|       |                  | 8          | 7       | 19.11     | 18.94   | 18.88   | 20.00   |         |
|       |                  | 15         | 0       | 18.99     | 18.93   | 18.88   | 20.00   |         |
|       | 64QAM            | 1          | 0       | 19.02     | 18.98   | 18.86   | 20.00   |         |
|       |                  | 1          | 7       | 19.08     | 19.03   | 19.01   | 20.00   |         |
|       |                  | 1          | 14      | 19.09     | 18.88   | 18.94   | 20.00   |         |
|       |                  | 8          | 0       | 17.91     | 17.81   | 17.87   | 19.00   |         |
|       |                  | 8          | 4       | 18.04     | 17.92   | 18.01   | 19.00   |         |
|       |                  | 8          | 7       | 18.07     | 17.86   | 18.07   | 19.00   |         |
|       |                  | 15         | 0       | 18.05     | 17.95   | 17.96   | 19.00   |         |
|       | 256QAM           | 1          | 0       | 15.95     | 16.00   | 15.71   | 17.00   |         |
|       |                  | 1          | 7       | 15.98     | 15.97   | 15.98   | 17.00   |         |
|       |                  | 1          | 14      | 16.20     | 15.92   | 16.00   | 17.00   |         |
|       |                  | 8          | 0       | 15.99     | 15.93   | 15.88   | 17.00   |         |
|       |                  | 8          | 4       | 16.04     | 16.01   | 15.99   | 17.00   |         |
|       |                  | 8          | 7       | 16.05     | 15.93   | 15.90   | 17.00   |         |
|       |                  | 15         | 0       | 15.93     | 15.86   | 16.03   | 17.00   |         |
|       | <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |                  |            |         |           | 131997  | 132322  | 132647  |         |
|       | <b>5MHz</b>      | QPSK       | 1       | 0         | 19.48   | 19.39   | 19.33   | 20.50   |
|       |                  |            | 1       | 13        | 19.50   | 19.51   | 19.42   | 20.50   |
| 1     |                  |            | 24      | 19.58     | 19.54   | 19.58   | 20.50   |         |
| 12    |                  |            | 0       | 19.46     | 19.30   | 19.37   | 20.50   |         |
| 12    |                  |            | 6       | 19.55     | 19.56   | 19.42   | 20.50   |         |
| 12    |                  |            | 13      | 19.52     | 19.53   | 19.55   | 20.50   |         |
| 25    |                  |            | 0       | 19.48     | 19.31   | 19.49   | 20.50   |         |
| 16QAM |                  | 1          | 0       | 19.72     | 19.58   | 19.41   | 20.50   |         |
|       |                  | 1          | 13      | 19.64     | 19.49   | 19.47   | 20.50   |         |
|       |                  | 1          | 24      | 19.64     | 19.62   | 19.54   | 20.50   |         |
|       |                  | 12         | 0       | 19.02     | 18.84   | 18.86   | 20.00   |         |
|       |                  | 12         | 6       | 19.06     | 19.01   | 18.99   | 20.00   |         |
|       |                  | 12         | 13      | 19.14     | 19.04   | 18.95   | 20.00   |         |
|       |                  | 25         | 0       | 18.94     | 18.84   | 18.91   | 20.00   |         |
| 64QAM |                  | 1          | 0       | 19.05     | 18.94   | 19.00   | 20.00   |         |
|       |                  | 1          | 13      | 19.22     | 18.97   | 18.93   | 20.00   |         |
|       |                  | 1          | 24      | 19.05     | 19.05   | 19.04   | 20.00   |         |
|       |                  | 12         | 0       | 17.92     | 17.80   | 17.89   | 19.00   |         |
|       |                  | 12         | 6       | 17.95     | 17.92   | 17.98   | 19.00   |         |
|       |                  | 12         | 13      | 18.02     | 17.88   | 18.06   | 19.00   |         |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 132022  | 132322  | 132622  |         |       |
| 10MHz     | 256QAM     | 25      | 0         | 18.06   | 17.97   | 18.02   | 19.00   |       |
|           |            | 1       | 0         | 16.10   | 15.94   | 15.70   | 17.00   |       |
|           |            | 1       | 13        | 16.18   | 15.84   | 15.95   | 17.00   |       |
|           |            | 1       | 24        | 16.18   | 15.96   | 16.15   | 17.00   |       |
|           |            | 12      | 0         | 15.97   | 15.77   | 16.02   | 17.00   |       |
|           |            | 12      | 6         | 16.05   | 15.96   | 15.92   | 17.00   |       |
|           |            | 12      | 13        | 15.93   | 15.91   | 15.96   | 17.00   |       |
|           |            | 25      | 0         | 16.08   | 15.87   | 15.94   | 17.00   |       |
|           | 10MHz      | QPSK    | 1         | 0       | 19.63   | 19.37   | 19.41   | 20.50 |
|           |            |         | 1         | 25      | 19.51   | 19.44   | 19.55   | 20.50 |
|           |            |         | 1         | 49      | 19.53   | 19.56   | 19.64   | 20.50 |
|           |            |         | 25        | 0       | 19.42   | 19.40   | 19.39   | 20.50 |
|           |            |         | 25        | 13      | 19.55   | 19.44   | 19.49   | 20.50 |
|           |            |         | 25        | 25      | 19.55   | 19.59   | 19.62   | 20.50 |
|           |            |         | 50        | 0       | 19.56   | 19.50   | 19.45   | 20.50 |
|           |            | 16QAM   | 1         | 0       | 19.85   | 19.65   | 19.47   | 20.50 |
|           |            |         | 1         | 25      | 19.75   | 19.56   | 19.46   | 20.50 |
|           |            |         | 1         | 49      | 19.78   | 19.69   | 19.43   | 20.50 |
|           |            |         | 25        | 0       | 19.07   | 18.87   | 18.99   | 20.00 |
|           |            |         | 25        | 13      | 18.98   | 18.93   | 18.87   | 20.00 |
|           |            |         | 25        | 25      | 19.10   | 19.00   | 18.90   | 20.00 |
|           |            |         | 50        | 0       | 19.11   | 18.90   | 18.92   | 20.00 |
|           |            | 64QAM   | 1         | 0       | 19.02   | 18.91   | 18.88   | 20.00 |
|           |            |         | 1         | 25      | 19.06   | 18.94   | 19.08   | 20.00 |
|           |            |         | 1         | 49      | 19.13   | 18.95   | 18.97   | 20.00 |
|           |            |         | 25        | 0       | 18.03   | 17.79   | 17.89   | 19.00 |
|           |            |         | 25        | 13      | 17.96   | 18.00   | 17.96   | 19.00 |
|           |            |         | 25        | 25      | 17.96   | 17.99   | 18.06   | 19.00 |
| 50        |            |         | 0         | 17.92   | 18.01   | 17.90   | 19.00   |       |
| 256QAM    |            | 1       | 0         | 15.97   | 16.01   | 15.81   | 17.00   |       |
|           |            | 1       | 25        | 16.12   | 16.01   | 16.04   | 17.00   |       |
|           |            | 1       | 49        | 16.16   | 16.05   | 16.08   | 17.00   |       |
|           |            | 25      | 0         | 16.06   | 15.89   | 15.97   | 17.00   |       |
|           |            | 25      | 13        | 16.06   | 15.91   | 15.85   | 17.00   |       |
|           |            | 25      | 25        | 15.96   | 15.87   | 16.04   | 17.00   |       |
|           |            | 50      | 0         | 16.05   | 16.00   | 15.95   | 17.00   |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |



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| Bandwidth | Modulation | RB size | RB offset | 132047  | 132322  | 132597  | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | Channel | Channel | Channel |         |
| 15MHz     | QPSK       | 1       | 0         | 19.58   | 19.40   | 19.30   | 20.50   |
|           |            | 1       | 38        | 19.42   | 19.47   | 19.44   | 20.50   |
|           |            | 1       | 74        | 19.64   | 19.56   | 19.68   | 20.50   |
|           |            | 36      | 0         | 19.42   | 19.39   | 19.44   | 20.50   |
|           |            | 36      | 18        | 19.44   | 19.56   | 19.50   | 20.50   |
|           |            | 36      | 39        | 19.55   | 19.58   | 19.54   | 20.50   |
|           |            | 75      | 0         | 19.51   | 19.37   | 19.39   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.80   | 19.63   | 19.53   | 20.50   |
|           |            | 1       | 38        | 19.65   | 19.63   | 19.53   | 20.50   |
|           |            | 1       | 74        | 19.81   | 19.54   | 19.59   | 20.50   |
|           |            | 36      | 0         | 18.88   | 18.81   | 18.82   | 20.00   |
|           |            | 36      | 18        | 19.07   | 19.05   | 18.98   | 20.00   |
|           |            | 36      | 39        | 19.07   | 18.90   | 19.06   | 20.00   |
|           |            | 75      | 0         | 18.95   | 18.87   | 18.83   | 20.00   |
|           | 64QAM      | 1       | 0         | 19.07   | 19.04   | 18.86   | 20.00   |
|           |            | 1       | 38        | 19.21   | 19.03   | 19.03   | 20.00   |
|           |            | 1       | 74        | 19.17   | 18.94   | 19.01   | 20.00   |
|           |            | 36      | 0         | 17.96   | 17.79   | 17.88   | 19.00   |
|           |            | 36      | 18        | 18.14   | 18.07   | 17.94   | 19.00   |
|           |            | 36      | 39        | 18.01   | 17.91   | 18.00   | 19.00   |
|           |            | 75      | 0         | 17.94   | 17.89   | 18.04   | 19.00   |
|           | 256QAM     | 1       | 0         | 16.08   | 15.93   | 15.66   | 17.00   |
|           |            | 1       | 38        | 16.14   | 15.95   | 15.97   | 17.00   |
|           |            | 1       | 74        | 16.19   | 15.93   | 16.15   | 17.00   |
|           |            | 36      | 0         | 15.97   | 15.92   | 15.96   | 17.00   |
|           |            | 36      | 18        | 16.08   | 15.98   | 15.93   | 17.00   |
|           |            | 36      | 39        | 15.90   | 15.95   | 16.04   | 17.00   |
|           |            | 75      | 0         | 16.04   | 15.99   | 15.97   | 17.00   |
| 20MHz     | QPSK       | 1       | 0         | 19.57   | 19.35   | 19.37   | 20.50   |
|           |            | 1       | 50        | 19.52   | 19.45   | 19.48   | 20.50   |
| 1         |            | 99      | 19.58     | 19.46   | 19.59   | 20.50   |         |
| 50        |            | 0       | 19.50     | 19.36   | 19.44   | 20.50   |         |
| 50        |            | 25      | 19.51     | 19.47   | 19.45   | 20.50   |         |
| 50        |            | 50      | 19.55     | 19.50   | 19.58   | 20.50   |         |
| 100       |            | 0       | 19.52     | 19.40   | 19.45   | 20.50   |         |
| 16QAM     | 1          | 0       | 19.78     | 19.56   | 19.49   | 20.50   |         |



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|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 50 | 19.70 | 19.58 | 19.56 | 20.50 |
|  |        | 1   | 99 | 19.72 | 19.61 | 19.52 | 20.50 |
|  |        | 50  | 0  | 18.97 | 18.90 | 18.91 | 20.00 |
|  |        | 50  | 25 | 19.05 | 18.99 | 18.96 | 20.00 |
|  |        | 50  | 50 | 19.05 | 18.98 | 18.98 | 20.00 |
|  |        | 100 | 0  | 19.02 | 18.91 | 18.92 | 20.00 |
|  | 64QAM  | 1   | 0  | 19.06 | 19.01 | 18.90 | 20.00 |
|  |        | 1   | 50 | 19.12 | 18.94 | 18.99 | 20.00 |
|  |        | 1   | 99 | 19.13 | 18.97 | 19.02 | 20.00 |
|  |        | 50  | 0  | 18.00 | 17.88 | 17.94 | 19.00 |
|  |        | 50  | 25 | 18.05 | 17.99 | 17.96 | 19.00 |
|  |        | 50  | 50 | 18.02 | 17.94 | 18.01 | 19.00 |
|  | 256QAM | 100 | 0  | 18.02 | 17.92 | 17.94 | 19.00 |
|  |        | 1   | 0  | 16.04 | 15.98 | 15.76 | 17.00 |
|  |        | 1   | 50 | 16.08 | 15.93 | 15.99 | 17.00 |
|  |        | 1   | 99 | 16.20 | 15.95 | 16.09 | 17.00 |
|  |        | 50  | 0  | 15.96 | 15.85 | 15.93 | 17.00 |
|  |        | 50  | 25 | 16.02 | 15.97 | 15.95 | 17.00 |
|  |        | 50  | 50 | 16.00 | 15.97 | 15.97 | 17.00 |
|  |        | 100 | 0  | 16.03 | 15.92 | 15.94 | 17.00 |

| LTE Band 38 Eci2/4/6 |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                 | QPSK       | 1       | 0         | 21.01                | 21.11   | 21.20   | 22.00   |
|                      |            | 1       | 13        | 21.18                | 21.00   | 20.97   | 22.00   |
|                      |            | 1       | 24        | 21.16                | 21.12   | 20.94   | 22.00   |
|                      |            | 12      | 0         | 20.16                | 20.12   | 20.18   | 21.00   |
|                      |            | 12      | 6         | 20.10                | 20.20   | 20.17   | 21.00   |
|                      |            | 12      | 13        | 20.17                | 20.12   | 20.13   | 21.00   |
|                      | 16QAM      | 25      | 0         | 20.19                | 20.22   | 20.17   | 21.00   |
|                      |            | 1       | 0         | 20.29                | 20.19   | 19.81   | 21.00   |
|                      |            | 1       | 13        | 20.14                | 20.25   | 19.80   | 21.00   |
|                      |            | 1       | 24        | 20.08                | 20.18   | 19.45   | 21.00   |
|                      |            | 12      | 0         | 19.14                | 19.35   | 19.17   | 20.00   |
|                      |            | 12      | 6         | 19.17                | 19.29   | 19.25   | 20.00   |
|                      |            | 12      | 13        | 19.06                | 19.08   | 19.16   | 20.00   |
|                      |            | 25      | 0         | 19.25                | 19.25   | 19.18   | 20.00   |



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|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  | 64QAM             | 1              | 0                | 18.95          | 18.84          | 18.83          | 20.00          |
|                  |                   | 1              | 13               | 18.71          | 18.82          | 18.52          | 20.00          |
|                  |                   | 1              | 24               | 18.72          | 18.75          | 18.45          | 20.00          |
|                  |                   | 12             | 0                | 18.23          | 18.24          | 18.29          | 19.00          |
|                  |                   | 12             | 6                | 18.13          | 18.17          | 18.22          | 19.00          |
|                  |                   | 12             | 13               | 18.08          | 18.18          | 18.00          | 19.00          |
|                  |                   | 25             | 0                | 18.14          | 18.26          | 18.17          | 19.00          |
|                  | 256QAM            | 1              | 0                | 15.92          | 15.97          | 16.00          | 17.00          |
|                  |                   | 1              | 13               | 15.85          | 16.06          | 15.92          | 17.00          |
|                  |                   | 1              | 24               | 15.89          | 15.93          | 16.01          | 17.00          |
|                  |                   | 12             | 0                | 16.11          | 16.16          | 16.35          | 17.00          |
|                  |                   | 12             | 6                | 16.19          | 16.30          | 16.20          | 17.00          |
|                  |                   | 12             | 13               | 16.31          | 16.15          | 16.21          | 17.00          |
|                  |                   | 25             | 0                | 16.10          | 16.26          | 16.12          | 17.00          |
| <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> |
|                  |                   |                |                  | 37800          | 38000          | 38200          |                |
| <b>10MHz</b>     | QPSK              | 1              | 0                | 20.97          | 21.13          | 21.19          | 22.00          |
|                  |                   | 1              | 25               | 21.19          | 20.98          | 20.92          | 22.00          |
|                  |                   | 1              | 49               | 21.05          | 20.93          | 21.02          | 22.00          |
|                  |                   | 25             | 0                | 20.19          | 20.29          | 20.11          | 21.00          |
|                  |                   | 25             | 13               | 20.16          | 20.20          | 20.12          | 21.00          |
|                  |                   | 25             | 25               | 20.17          | 20.04          | 20.05          | 21.00          |
|                  |                   | 50             | 0                | 20.27          | 20.16          | 20.23          | 21.00          |
|                  | 16QAM             | 1              | 0                | 20.20          | 20.27          | 19.85          | 21.00          |
|                  |                   | 1              | 25               | 20.33          | 20.28          | 19.85          | 21.00          |
|                  |                   | 1              | 49               | 20.15          | 20.17          | 19.54          | 21.00          |
|                  |                   | 25             | 0                | 19.20          | 19.28          | 19.25          | 20.00          |
|                  |                   | 25             | 13               | 19.21          | 19.31          | 19.11          | 20.00          |
|                  |                   | 25             | 25               | 19.18          | 19.13          | 19.17          | 20.00          |
|                  |                   | 50             | 0                | 19.26          | 19.14          | 19.27          | 20.00          |
|                  | 64QAM             | 1              | 0                | 18.93          | 18.91          | 18.86          | 20.00          |
|                  |                   | 1              | 25               | 18.71          | 18.85          | 18.59          | 20.00          |
|                  |                   | 1              | 49               | 18.71          | 18.80          | 18.55          | 20.00          |
|                  |                   | 25             | 0                | 18.04          | 18.20          | 18.20          | 19.00          |
|                  |                   | 25             | 13               | 18.05          | 18.18          | 18.11          | 19.00          |
|                  |                   | 25             | 25               | 18.15          | 18.20          | 18.17          | 19.00          |
|                  |                   | 50             | 0                | 18.10          | 18.21          | 18.15          | 19.00          |
|                  | 256QAM            | 1              | 0                | 16.07          | 16.15          | 16.15          | 17.00          |
|                  |                   | 1              | 25               | 15.86          | 16.06          | 15.97          | 17.00          |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 37825   | 38000   | 38175   |         |       |
| 15MHz     | QPSK       | 1       | 49        | 16.05   | 15.93   | 15.96   | 17.00   |       |
|           |            | 25      | 0         | 16.14   | 16.29   | 16.24   | 17.00   |       |
|           |            | 25      | 13        | 16.21   | 16.31   | 16.26   | 17.00   |       |
|           |            | 25      | 25        | 16.31   | 16.07   | 16.22   | 17.00   |       |
|           |            | 50      | 0         | 16.18   | 16.11   | 16.16   | 17.00   |       |
|           |            | 16QAM   | 1         | 0       | 21.03   | 21.17   | 21.21   | 22.00 |
|           |            |         | 1         | 38      | 21.16   | 21.14   | 21.08   | 22.00 |
|           | 1          |         | 74        | 21.02   | 21.05   | 20.89   | 22.00   |       |
|           | 36         |         | 0         | 20.14   | 20.20   | 20.30   | 21.00   |       |
|           | 36         |         | 18        | 20.26   | 20.15   | 20.10   | 21.00   |       |
|           | 36         |         | 39        | 20.05   | 20.06   | 20.10   | 21.00   |       |
|           | 75         |         | 0         | 20.20   | 20.16   | 20.15   | 21.00   |       |
|           | 64QAM      | 1       | 0         | 20.31   | 20.20   | 19.86   | 21.00   |       |
|           |            | 1       | 38        | 20.17   | 20.24   | 19.75   | 21.00   |       |
|           |            | 1       | 74        | 20.16   | 20.11   | 19.49   | 21.00   |       |
|           |            | 36      | 0         | 19.15   | 19.22   | 19.23   | 20.00   |       |
|           |            | 36      | 18        | 19.20   | 19.22   | 19.26   | 20.00   |       |
|           |            | 36      | 39        | 19.14   | 19.17   | 19.02   | 20.00   |       |
|           |            | 75      | 0         | 19.08   | 19.11   | 19.23   | 20.00   |       |
|           | 256QAM     | 1       | 0         | 18.85   | 18.94   | 18.97   | 20.00   |       |
|           |            | 1       | 38        | 18.83   | 18.84   | 18.62   | 20.00   |       |
|           |            | 1       | 74        | 18.81   | 18.87   | 18.62   | 20.00   |       |
|           |            | 36      | 0         | 18.05   | 18.27   | 18.13   | 19.00   |       |
|           |            | 36      | 18        | 18.24   | 18.23   | 18.22   | 19.00   |       |
|           |            | 36      | 39        | 18.12   | 18.15   | 18.01   | 19.00   |       |
|           |            | 75      | 0         | 18.11   | 18.26   | 18.10   | 19.00   |       |
|           | 20MHz      | QPSK    | 1         | 0       | 15.98   | 16.11   | 15.96   | 17.00 |
|           |            |         | 1         | 38      | 15.96   | 16.06   | 16.06   | 17.00 |
| 20MHz     | QPSK       | 1       | 74        | 15.87   | 15.88   | 15.91   | 17.00   |       |
|           |            | 36      | 0         | 16.12   | 16.20   | 16.23   | 17.00   |       |
| 20MHz     | QPSK       | 36      | 18        | 16.21   | 16.18   | 16.25   | 17.00   |       |
|           |            | 36      | 39        | 16.31   | 16.18   | 16.26   | 17.00   |       |
| 20MHz     | QPSK       | 75      | 0         | 16.10   | 16.14   | 16.26   | 17.00   |       |
|           |            | 1       | 0         | 21.05   | 21.09   | 21.11   | 22.00   |       |
| 20MHz     | QPSK       | 1       | 50        | 21.12   | 21.04   | 21.00   | 22.00   |       |



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|    |        |     |       |       |       |       |       |
|----|--------|-----|-------|-------|-------|-------|-------|
|    |        | 1   | 99    | 21.10 | 21.02 | 20.97 | 22.00 |
|    |        | 50  | 0     | 20.15 | 20.21 | 20.20 | 21.00 |
|    |        | 50  | 25    | 20.16 | 20.18 | 20.18 | 21.00 |
|    |        | 50  | 50    | 20.15 | 20.13 | 20.11 | 21.00 |
|    |        | 100 | 0     | 20.17 | 20.15 | 20.15 | 21.00 |
|    | 16QAM  | 1   | 0     | 20.28 | 20.27 | 19.86 | 21.00 |
|    |        | 1   | 50    | 20.24 | 20.20 | 19.78 | 21.00 |
|    |        | 1   | 99    | 20.18 | 20.19 | 19.54 | 21.00 |
|    |        | 50  | 0     | 19.16 | 19.26 | 19.19 | 20.00 |
|    |        | 50  | 25    | 19.17 | 19.21 | 19.18 | 20.00 |
|    |        | 50  | 50    | 19.16 | 19.18 | 19.12 | 20.00 |
|    | 64QAM  | 100 | 0     | 19.17 | 19.17 | 19.19 | 20.00 |
|    |        | 1   | 0     | 18.86 | 18.85 | 18.89 | 20.00 |
|    |        | 1   | 50    | 18.79 | 18.80 | 18.62 | 20.00 |
|    |        | 1   | 99    | 18.77 | 18.80 | 18.55 | 20.00 |
|    |        | 50  | 0     | 18.14 | 18.21 | 18.20 | 19.00 |
|    |        | 50  | 25    | 18.14 | 18.17 | 18.15 | 19.00 |
|    |        | 50  | 50    | 18.14 | 18.13 | 18.09 | 19.00 |
|    | 256QAM | 100 | 0     | 18.13 | 18.16 | 18.12 | 19.00 |
|    |        | 1   | 0     | 16.01 | 16.07 | 16.06 | 17.00 |
|    |        | 1   | 50    | 15.94 | 15.98 | 15.96 | 17.00 |
| 1  |        | 99  | 15.95 | 15.98 | 15.93 | 17.00 |       |
| 50 |        | 0   | 16.21 | 16.24 | 16.25 | 17.00 |       |
| 50 |        | 25  | 16.22 | 16.22 | 16.22 | 17.00 |       |
| 50 |        | 50  | 16.21 | 16.17 | 16.17 | 17.00 |       |
|    |        | 100 | 0     | 16.17 | 16.16 | 16.17 | 17.00 |

| LTE Band 38 Eci3/7 |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz               | QPSK       | 1       | 0         | 18.20                | 18.45   | 18.26   | 19.50   |
|                    |            | 1       | 13        | 18.36                | 18.38   | 18.29   | 19.50   |
|                    |            | 1       | 24        | 18.42                | 18.15   | 18.29   | 19.50   |
|                    |            | 12      | 0         | 18.34                | 18.39   | 18.36   | 19.50   |
|                    |            | 12      | 6         | 18.34                | 18.38   | 18.31   | 19.50   |
|                    |            | 12      | 13        | 18.34                | 18.25   | 18.25   | 19.50   |
|                    |            | 25      | 0         | 18.38                | 18.37   | 18.30   | 19.50   |
|                    | 16QAM      | 1       | 0         | 18.62                | 18.61   | 18.60   | 19.50   |



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|       |        | 1  | 13        | 18.52      | 18.58   | 18.47     | 19.50   |         |         |
|-------|--------|----|-----------|------------|---------|-----------|---------|---------|---------|
|       |        | 1  | 24        | 18.66      | 18.39   | 18.58     | 19.50   |         |         |
|       |        | 12 | 0         | 18.36      | 18.43   | 18.34     | 19.50   |         |         |
|       |        | 12 | 6         | 18.44      | 18.40   | 18.26     | 19.50   |         |         |
|       |        | 12 | 13        | 18.46      | 18.44   | 18.29     | 19.50   |         |         |
|       |        | 25 | 0         | 18.37      | 18.38   | 18.44     | 19.50   |         |         |
|       | 64QAM  | 1  | 0         | 18.32      | 18.53   | 18.46     | 19.50   |         |         |
|       |        | 1  | 13        | 18.38      | 18.49   | 18.32     | 19.50   |         |         |
|       |        | 1  | 24        | 18.47      | 18.29   | 18.29     | 19.50   |         |         |
|       |        | 12 | 0         | 17.98      | 18.19   | 18.01     | 19.00   |         |         |
|       |        | 12 | 6         | 18.20      | 18.17   | 18.04     | 19.00   |         |         |
|       |        | 12 | 13        | 18.18      | 18.11   | 18.02     | 19.00   |         |         |
|       | 256QAM | 25 | 0         | 18.10      | 17.99   | 18.00     | 19.00   |         |         |
|       |        | 1  | 0         | 16.08      | 16.06   | 16.03     | 17.00   |         |         |
|       |        | 1  | 13        | 16.01      | 16.08   | 16.03     | 17.00   |         |         |
|       |        | 1  | 24        | 16.05      | 15.93   | 16.01     | 17.00   |         |         |
|       |        | 12 | 0         | 16.12      | 16.14   | 16.10     | 17.00   |         |         |
|       |        | 12 | 6         | 16.16      | 16.23   | 16.08     | 17.00   |         |         |
|       | 10MHz  |    | 12        | 13         | 16.21   | 16.09     | 15.95   | 17.00   |         |
|       |        |    | 25        | 0          | 16.02   | 16.07     | 15.96   | 17.00   |         |
|       |        |    | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel |
|       |        |    |           |            |         | 37800     | 38000   | 38200   |         |
| QPSK  |        |    | 1         | 0          | 18.34   | 18.55     | 18.29   | 19.50   |         |
|       |        |    | 1         | 25         | 18.29   | 18.47     | 18.24   | 19.50   |         |
|       |        | 1  | 49        | 18.24      | 18.34   | 18.17     | 19.50   |         |         |
|       |        | 25 | 0         | 18.25      | 18.44   | 18.28     | 19.50   |         |         |
|       |        | 25 | 13        | 18.41      | 18.40   | 18.18     | 19.50   |         |         |
|       |        | 25 | 25        | 18.31      | 18.36   | 18.27     | 19.50   |         |         |
| 16QAM |        | 50 | 0         | 18.29      | 18.29   | 18.35     | 19.50   |         |         |
|       |        | 1  | 0         | 18.50      | 18.62   | 18.61     | 19.50   |         |         |
|       |        | 1  | 25        | 18.45      | 18.72   | 18.46     | 19.50   |         |         |
|       |        | 1  | 49        | 18.47      | 18.54   | 18.60     | 19.50   |         |         |
|       |        | 25 | 0         | 18.29      | 18.51   | 18.43     | 19.50   |         |         |
|       |        | 25 | 13        | 18.51      | 18.53   | 18.32     | 19.50   |         |         |
| 64QAM |        | 25 | 25        | 18.39      | 18.36   | 18.30     | 19.50   |         |         |
|       |        | 50 | 0         | 18.43      | 18.33   | 18.37     | 19.50   |         |         |
|       |        | 1  | 0         | 18.45      | 18.60   | 18.36     | 19.50   |         |         |
|       |        |    | 1         | 25         | 18.47   | 18.62     | 18.35   | 19.50   |         |
|       |        |    | 1         | 49         | 18.48   | 18.41     | 18.18   | 19.50   |         |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 37825   | 38000   | 38175   |         |       |
| 15MHz     | 256QAM     | 25      | 0         | 17.89   | 18.05   | 18.17   | 19.00   |       |
|           |            | 25      | 13        | 18.01   | 18.16   | 18.02   | 19.00   |       |
|           |            | 25      | 25        | 18.19   | 18.13   | 17.97   | 19.00   |       |
|           |            | 50      | 0         | 18.07   | 18.03   | 17.99   | 19.00   |       |
|           |            | 1       | 0         | 15.99   | 16.14   | 16.04   | 17.00   |       |
|           |            | 1       | 25        | 16.12   | 16.16   | 15.97   | 17.00   |       |
|           |            | 1       | 49        | 16.01   | 15.96   | 15.93   | 17.00   |       |
|           |            | 25      | 0         | 16.03   | 16.11   | 16.09   | 17.00   |       |
|           | 25         | 13      | 16.05     | 16.25   | 16.12   | 17.00   |         |       |
|           | 25         | 25      | 16.13     | 16.10   | 15.94   | 17.00   |         |       |
|           | 50         | 0       | 16.11     | 16.03   | 16.05   | 17.00   |         |       |
|           | 15MHz      | QPSK    | 1         | 0       | 18.32   | 18.52   | 18.26   | 19.50 |
|           |            |         | 1         | 38      | 18.29   | 18.49   | 18.15   | 19.50 |
|           |            |         | 1         | 74      | 18.39   | 18.27   | 18.16   | 19.50 |
|           |            |         | 36        | 0       | 18.35   | 18.41   | 18.40   | 19.50 |
|           |            |         | 36        | 18      | 18.47   | 18.45   | 18.27   | 19.50 |
|           |            |         | 36        | 39      | 18.41   | 18.42   | 18.28   | 19.50 |
|           |            |         | 75        | 0       | 18.39   | 18.43   | 18.31   | 19.50 |
|           |            |         | 16QAM     | 1       | 0       | 18.47   | 18.60   | 18.69 |
|           |            | 1       |           | 38      | 18.64   | 18.73   | 18.55   | 19.50 |
|           |            | 1       |           | 74      | 18.46   | 18.52   | 18.42   | 19.50 |
|           |            | 36      |           | 0       | 18.41   | 18.42   | 18.39   | 19.50 |
|           |            | 36      |           | 18      | 18.47   | 18.42   | 18.26   | 19.50 |
|           |            | 36      |           | 39      | 18.38   | 18.27   | 18.28   | 19.50 |
|           |            | 75      |           | 0       | 18.29   | 18.48   | 18.33   | 19.50 |
|           |            | 64QAM   |           | 1       | 0       | 18.31   | 18.58   | 18.48 |
|           |            |         | 1         | 38      | 18.43   | 18.44   | 18.29   | 19.50 |
|           |            |         | 1         | 74      | 18.36   | 18.26   | 18.19   | 19.50 |
| 36        |            |         | 0         | 17.94   | 18.04   | 18.13   | 19.00   |       |
| 36        |            |         | 18        | 18.09   | 18.21   | 18.06   | 19.00   |       |
| 36        |            |         | 39        | 18.19   | 18.09   | 17.96   | 19.00   |       |
| 75        |            |         | 0         | 18.09   | 18.07   | 17.98   | 19.00   |       |
| 256QAM    |            |         | 1         | 0       | 15.99   | 16.16   | 16.00   | 17.00 |
|           |            | 1       | 38        | 15.96   | 16.05   | 15.89   | 17.00   |       |
|           |            | 1       | 74        | 16.04   | 16.06   | 15.86   | 17.00   |       |
|           |            | 36      | 0         | 16.00   | 16.09   | 16.14   | 17.00   |       |
|           |            | 36      | 18        | 16.07   | 16.24   | 15.98   | 17.00   |       |



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| Bandwidth | Modulation | 36      | 39        | 16.11   | 16.17   | 16.07   | 17.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 75      | 0         | 16.07   | 16.05   | 16.09   | 17.00   |
|           |            | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            | 37850   | 38000     | 38150   |         |         |         |
| 20MHz     | QPSK       | 1       | 0         | 18.26   | 18.46   | 18.35   | 19.50   |
|           |            | 1       | 50        | 18.37   | 18.42   | 18.20   | 19.50   |
|           |            | 1       | 99        | 18.34   | 18.24   | 18.20   | 19.50   |
|           |            | 50      | 0         | 18.29   | 18.41   | 18.36   | 19.50   |
|           |            | 50      | 25        | 18.40   | 18.41   | 18.28   | 19.50   |
|           |            | 50      | 50        | 18.40   | 18.33   | 18.22   | 19.50   |
|           |            | 100     | 0         | 18.34   | 18.38   | 18.31   | 19.50   |
|           | 16QAM      | 1       | 0         | 18.53   | 18.66   | 18.61   | 19.50   |
|           |            | 1       | 50        | 18.54   | 18.68   | 18.46   | 19.50   |
|           |            | 1       | 99        | 18.56   | 18.49   | 18.50   | 19.50   |
|           |            | 50      | 0         | 18.31   | 18.45   | 18.39   | 19.50   |
|           |            | 50      | 25        | 18.45   | 18.46   | 18.30   | 19.50   |
|           |            | 50      | 50        | 18.41   | 18.37   | 18.26   | 19.50   |
|           |            | 100     | 0         | 18.36   | 18.42   | 18.34   | 19.50   |
|           | 64QAM      | 1       | 0         | 18.38   | 18.52   | 18.43   | 19.50   |
|           |            | 1       | 50        | 18.41   | 18.53   | 18.31   | 19.50   |
|           |            | 1       | 99        | 18.39   | 18.35   | 18.27   | 19.50   |
|           |            | 50      | 0         | 17.99   | 18.12   | 18.09   | 19.00   |
|           |            | 50      | 25        | 18.11   | 18.13   | 17.99   | 19.00   |
|           |            | 50      | 50        | 18.13   | 18.07   | 17.95   | 19.00   |
|           |            | 100     | 0         | 18.02   | 18.07   | 17.99   | 19.00   |
|           | 256QAM     | 1       | 0         | 16.00   | 16.13   | 16.07   | 17.00   |
|           |            | 1       | 50        | 16.03   | 16.15   | 15.93   | 17.00   |
|           |            | 1       | 99        | 16.04   | 15.97   | 15.93   | 17.00   |
|           |            | 50      | 0         | 16.03   | 16.16   | 16.10   | 17.00   |
|           |            | 50      | 25        | 16.13   | 16.17   | 16.03   | 17.00   |
|           |            | 50      | 50        | 16.16   | 16.11   | 15.97   | 17.00   |
|           |            | 100     | 0         | 16.02   | 16.07   | 16.00   | 17.00   |



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| LTE Band 41 PC2 Eci2/4/6 |                   |                |                  | 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                | 23.41                | 23.65          | 23.61          | 23.12          | 23.23          | 24.50          |
|                          |                   | 1              | 13               | 23.42                | 23.68          | 23.82          | 23.57          | 23.34          | 24.50          |
|                          |                   | 1              | 24               | 23.40                | 23.65          | 23.18          | 23.36          | 23.43          | 24.50          |
|                          |                   | 12             | 0                | 22.50                | 22.30          | 22.53          | 22.36          | 22.30          | 23.50          |
|                          |                   | 12             | 6                | 22.34                | 22.54          | 22.76          | 22.36          | 22.13          | 23.50          |
|                          |                   | 12             | 13               | 22.18                | 22.44          | 22.68          | 22.32          | 22.43          | 23.50          |
|                          |                   | 25             | 0                | 22.62                | 22.36          | 22.73          | 22.40          | 22.12          | 23.50          |
|                          | 16QAM             | 1              | 0                | 22.34                | 22.28          | 22.53          | 22.54          | 22.18          | 23.50          |
|                          |                   | 1              | 13               | 22.29                | 22.57          | 22.59          | 22.26          | 22.43          | 23.50          |
|                          |                   | 1              | 24               | 22.57                | 22.69          | 22.59          | 22.61          | 22.62          | 23.50          |
|                          |                   | 12             | 0                | 21.29                | 21.32          | 21.64          | 21.17          | 21.40          | 22.50          |
|                          |                   | 12             | 6                | 21.61                | 21.30          | 21.53          | 21.36          | 21.28          | 22.50          |
|                          |                   | 12             | 13               | 21.57                | 21.49          | 21.44          | 21.26          | 21.40          | 22.50          |
|                          |                   | 25             | 0                | 21.59                | 21.23          | 21.84          | 21.41          | 21.50          | 22.50          |
|                          | 64QAM             | 1              | 0                | 21.07                | 21.15          | 21.13          | 21.05          | 20.93          | 22.50          |
|                          |                   | 1              | 13               | 21.09                | 20.88          | 21.41          | 21.12          | 21.09          | 22.50          |
|                          |                   | 1              | 24               | 21.36                | 21.09          | 21.15          | 21.16          | 20.91          | 22.50          |
|                          |                   | 12             | 0                | 20.26                | 20.36          | 20.57          | 20.35          | 20.26          | 21.50          |
|                          |                   | 12             | 6                | 20.35                | 20.30          | 20.46          | 20.49          | 20.41          | 21.50          |
|                          |                   | 12             | 13               | 20.35                | 20.34          | 20.63          | 20.75          | 20.26          | 21.50          |
|                          |                   | 25             | 0                | 20.14                | 20.34          | 20.54          | 20.49          | 20.20          | 21.50          |
|                          | 256QAM            | 1              | 0                | 18.45                | 18.07          | 18.37          | 18.31          | 18.06          | 19.50          |
|                          |                   | 1              | 13               | 18.50                | 18.40          | 18.37          | 18.31          | 17.95          | 19.50          |
|                          |                   | 1              | 24               | 18.22                | 18.17          | 18.20          | 18.37          | 18.11          | 19.50          |
|                          |                   | 12             | 0                | 18.11                | 18.35          | 18.59          | 18.13          | 18.48          | 19.50          |
|                          |                   | 12             | 6                | 18.41                | 18.27          | 18.53          | 18.34          | 18.14          | 19.50          |
|                          |                   | 12             | 13               | 18.50                | 18.38          | 18.39          | 18.66          | 18.47          | 19.50          |
|                          |                   | 25             | 0                | 18.17                | 18.42          | 18.39          | 18.39          | 18.29          | 19.50          |
| <b>Bandwidth</b>         | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b>       | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
| 10MHz                    | QPSK              | 1              | 0                | 23.57                | 23.49          | 23.68          | 23.06          | 23.29          | 24.50          |
|                          |                   | 1              | 25               | 23.47                | 23.51          | 23.85          | 23.60          | 23.37          | 24.50          |
|                          |                   | 1              | 49               | 23.51                | 23.71          | 23.28          | 23.28          | 23.41          | 24.50          |
|                          |                   | 25             | 0                | 22.48                | 22.18          | 22.67          | 22.41          | 22.41          | 23.50          |
|                          |                   | 25             | 13               | 22.34                | 22.67          | 22.67          | 22.22          | 22.11          | 23.50          |



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|              |                  |                   |                |                  |                |                |                |                |                |                |
|--------------|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|
|              |                  | 25                | 25             | 22.34            | 22.56          | 22.52          | 22.36          | 22.43          | 23.50          |                |
|              |                  | 50                | 0              | 22.72            | 22.46          | 22.75          | 22.34          | 22.16          | 23.50          |                |
|              | 16QAM            | 1                 | 0              | 22.31            | 22.29          | 22.53          | 22.55          | 22.07          | 23.50          |                |
|              |                  | 1                 | 25             | 22.33            | 22.42          | 22.59          | 22.27          | 22.34          | 23.50          |                |
|              |                  | 1                 | 49             | 22.51            | 22.68          | 22.53          | 22.64          | 22.60          | 23.50          |                |
|              |                  | 25                | 0              | 21.10            | 21.36          | 21.58          | 21.20          | 21.25          | 22.50          |                |
|              |                  | 25                | 13             | 21.59            | 21.34          | 21.48          | 21.33          | 21.37          | 22.50          |                |
|              |                  | 25                | 25             | 21.56            | 21.33          | 21.61          | 21.40          | 21.31          | 22.50          |                |
|              |                  | 50                | 0              | 21.44            | 21.11          | 21.68          | 21.33          | 21.50          | 22.50          |                |
|              |                  | 64QAM             | 1              | 0                | 21.02          | 21.29          | 21.19          | 21.12          | 21.01          | 22.50          |
|              | 1                |                   | 25             | 21.07            | 20.94          | 21.53          | 20.96          | 21.09          | 22.50          |                |
|              | 1                |                   | 49             | 21.28            | 21.04          | 21.24          | 21.15          | 21.08          | 22.50          |                |
|              | 25               |                   | 0              | 20.26            | 20.35          | 20.69          | 20.38          | 20.20          | 21.50          |                |
|              | 25               |                   | 13             | 20.37            | 20.42          | 20.44          | 20.45          | 20.32          | 21.50          |                |
|              | 25               |                   | 25             | 20.37            | 20.33          | 20.64          | 20.70          | 20.31          | 21.50          |                |
|              | 50               |                   | 0              | 20.13            | 20.23          | 20.58          | 20.61          | 20.24          | 21.50          |                |
|              | 256QAM           | 1                 | 0              | 18.41            | 17.96          | 18.49          | 18.16          | 18.06          | 19.50          |                |
|              |                  | 1                 | 25             | 18.52            | 18.27          | 18.48          | 18.30          | 18.03          | 19.50          |                |
|              |                  | 1                 | 49             | 18.27            | 18.11          | 18.18          | 18.19          | 18.21          | 19.50          |                |
|              |                  | 25                | 0              | 18.09            | 18.24          | 18.59          | 18.08          | 18.45          | 19.50          |                |
|              |                  | 25                | 13             | 18.38            | 18.36          | 18.57          | 18.18          | 18.12          | 19.50          |                |
|              |                  | 25                | 25             | 18.40            | 18.40          | 18.47          | 18.60          | 18.39          | 19.50          |                |
|              |                  | 50                | 0              | 18.25            | 18.33          | 18.38          | 18.34          | 18.14          | 19.50          |                |
|              | <b>Bandwidth</b> | <b>Modulation</b> | <b>RB size</b> | <b>RB offset</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Channel</b> | <b>Tune up</b> |
|              |                  |                   |                |                  | 39725          | 40173          | 40620          | 41068          | 41515          |                |
|              | <b>15MHz</b>     | <b>QPSK</b>       | 1              | 0                | 23.57          | 23.50          | 23.63          | 23.26          | 23.20          | 24.50          |
|              |                  |                   | 1              | 38               | 23.50          | 23.66          | 23.75          | 23.59          | 23.23          | 24.50          |
|              |                  |                   | 1              | 74               | 23.43          | 23.76          | 23.21          | 23.28          | 23.25          | 24.50          |
| 36           |                  |                   | 0              | 22.48            | 22.31          | 22.52          | 22.50          | 22.32          | 23.50          |                |
| 36           |                  |                   | 18             | 22.50            | 22.70          | 22.71          | 22.18          | 22.09          | 23.50          |                |
| 36           |                  |                   | 39             | 22.18            | 22.51          | 22.67          | 22.44          | 22.50          | 23.50          |                |
| 75           |                  |                   | 0              | 22.61            | 22.51          | 22.74          | 22.44          | 22.07          | 23.50          |                |
| <b>16QAM</b> |                  | 1                 | 0              | 22.36            | 22.10          | 22.56          | 22.56          | 22.11          | 23.50          |                |
|              |                  | 1                 | 38             | 22.38            | 22.40          | 22.70          | 22.26          | 22.34          | 23.50          |                |
|              |                  | 1                 | 74             | 22.44            | 22.73          | 22.50          | 22.70          | 22.54          | 23.50          |                |
|              |                  | 36                | 0              | 21.20            | 21.28          | 21.54          | 21.27          | 21.42          | 22.50          |                |
|              |                  | 36                | 18             | 21.45            | 21.31          | 21.66          | 21.37          | 21.32          | 22.50          |                |
|              |                  | 36                | 39             | 21.50            | 21.34          | 21.55          | 21.37          | 21.47          | 22.50          |                |
|              |                  | 75                | 0              | 21.51            | 21.19          | 21.75          | 21.22          | 21.44          | 22.50          |                |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|-------|
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |       |
| 20MHz     | 64QAM      | 1       | 0         | 21.08   | 21.19   | 21.25   | 21.10   | 21.00   | 22.50   |       |
|           |            | 1       | 38        | 21.19   | 20.77   | 21.42   | 21.10   | 21.13   | 22.50   |       |
|           |            | 1       | 74        | 21.20   | 21.05   | 21.34   | 21.03   | 20.97   | 22.50   |       |
|           |            | 36      | 0         | 20.29   | 20.39   | 20.61   | 20.48   | 20.18   | 21.50   |       |
|           |            | 36      | 18        | 20.37   | 20.34   | 20.42   | 20.42   | 20.38   | 21.50   |       |
|           |            | 36      | 39        | 20.54   | 20.37   | 20.59   | 20.88   | 20.34   | 21.50   |       |
|           |            | 75      | 0         | 20.29   | 20.22   | 20.52   | 20.53   | 20.39   | 21.50   |       |
|           | 256QAM     | 1       | 0         | 18.39   | 18.04   | 18.35   | 18.11   | 18.22   | 19.50   |       |
|           |            | 1       | 38        | 18.43   | 18.32   | 18.36   | 18.24   | 18.03   | 19.50   |       |
|           |            | 1       | 74        | 18.22   | 18.24   | 18.22   | 18.33   | 18.18   | 19.50   |       |
|           |            | 36      | 0         | 18.12   | 18.28   | 18.55   | 18.06   | 18.30   | 19.50   |       |
|           |            | 36      | 18        | 18.47   | 18.28   | 18.50   | 18.24   | 18.09   | 19.50   |       |
|           |            | 36      | 39        | 18.42   | 18.30   | 18.43   | 18.62   | 18.30   | 19.50   |       |
|           |            | 75      | 0         | 18.31   | 18.32   | 18.46   | 18.41   | 18.26   | 19.50   |       |
|           | QPSK       | 16QAM   | 1         | 0       | 23.48   | 23.58   | 23.63   | 23.16   | 23.30   | 24.50 |
|           |            |         | 1         | 50      | 23.52   | 23.61   | 23.84   | 23.60   | 23.29   | 24.50 |
|           |            |         | 1         | 99      | 23.47   | 23.68   | 23.24   | 23.32   | 23.35   | 24.50 |
|           |            |         | 50        | 0       | 22.47   | 22.28   | 22.57   | 22.41   | 22.36   | 23.50 |
|           |            |         | 50        | 25      | 22.40   | 22.61   | 22.72   | 22.28   | 22.17   | 23.50 |
|           |            |         | 50        | 50      | 22.27   | 22.50   | 22.58   | 22.38   | 22.53   | 23.50 |
|           |            |         | 100       | 0       | 22.66   | 22.43   | 22.74   | 22.44   | 22.16   | 23.50 |
|           |            | 64QAM   | 1         | 0       | 22.32   | 22.19   | 22.59   | 22.48   | 22.11   | 23.50 |
|           |            |         | 1         | 50      | 22.32   | 22.48   | 22.69   | 22.25   | 22.43   | 23.50 |
|           |            |         | 1         | 99      | 22.54   | 22.73   | 22.56   | 22.68   | 22.55   | 23.50 |
|           |            |         | 50        | 0       | 21.19   | 21.30   | 21.60   | 21.26   | 21.35   | 22.50 |
|           |            |         | 50        | 25      | 21.54   | 21.35   | 21.57   | 21.35   | 21.30   | 22.50 |
|           |            |         | 50        | 50      | 21.47   | 21.42   | 21.52   | 21.30   | 21.39   | 22.50 |
|           |            |         | 100       | 0       | 21.52   | 21.17   | 21.76   | 21.32   | 21.45   | 22.50 |
|           |            | 256QAM  | 1         | 0       | 21.11   | 21.24   | 21.15   | 21.04   | 20.94   | 22.50 |
|           |            |         | 1         | 50      | 21.09   | 20.86   | 21.44   | 21.06   | 21.10   | 22.50 |
| 1         |            |         | 99        | 21.27   | 21.12   | 21.24   | 21.12   | 21.00   | 22.50   |       |
| 50        |            |         | 0         | 20.30   | 20.43   | 20.64   | 20.40   | 20.16   | 21.50   |       |
| 50        |            |         | 25        | 20.44   | 20.33   | 20.44   | 20.45   | 20.36   | 21.50   |       |
| 50        |            |         | 50        | 20.45   | 20.28   | 20.66   | 20.78   | 20.32   | 21.50   |       |
| 100       |            |         | 0         | 20.21   | 20.29   | 20.51   | 20.55   | 20.29   | 21.50   |       |



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|  |     |    |       |       |       |       |       |       |
|--|-----|----|-------|-------|-------|-------|-------|-------|
|  | 1   | 99 | 18.23 | 18.16 | 18.25 | 18.27 | 18.11 | 19.50 |
|  | 50  | 0  | 18.18 | 18.30 | 18.51 | 18.07 | 18.39 | 19.50 |
|  | 50  | 25 | 18.43 | 18.30 | 18.60 | 18.24 | 18.13 | 19.50 |
|  | 50  | 50 | 18.46 | 18.38 | 18.42 | 18.58 | 18.39 | 19.50 |
|  | 100 | 0  | 18.25 | 18.40 | 18.42 | 18.42 | 18.21 | 19.50 |

| LTE Band 41 PC2 Eci3/7 |            |         |           | 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         | 20.35                | 20.34   | 20.46   | 20.12   | 20.19   | 21.00   |
|                        |            | 1       | 13        | 20.47                | 20.47   | 20.40   | 20.30   | 20.16   | 21.00   |
|                        |            | 1       | 24        | 20.49                | 20.57   | 20.50   | 20.41   | 20.38   | 21.00   |
|                        |            | 12      | 0         | 20.30                | 20.29   | 20.38   | 20.24   | 20.08   | 21.00   |
|                        |            | 12      | 6         | 20.32                | 20.57   | 20.47   | 20.03   | 20.13   | 21.00   |
|                        |            | 12      | 13        | 20.50                | 20.58   | 20.46   | 20.19   | 20.26   | 21.00   |
|                        |            | 25      | 0         | 20.38                | 20.47   | 20.57   | 20.27   | 20.25   | 21.00   |
|                        | 16QAM      | 1       | 0         | 20.62                | 20.56   | 20.70   | 20.25   | 20.35   | 21.00   |
|                        |            | 1       | 13        | 20.67                | 20.73   | 20.75   | 20.43   | 20.47   | 21.00   |
|                        |            | 1       | 24        | 20.91                | 20.94   | 20.77   | 20.43   | 20.55   | 21.00   |
|                        |            | 12      | 0         | 20.38                | 20.34   | 20.57   | 20.09   | 20.16   | 21.00   |
|                        |            | 12      | 6         | 20.31                | 20.48   | 20.45   | 20.25   | 20.13   | 21.00   |
|                        |            | 12      | 13        | 20.47                | 20.54   | 20.46   | 20.33   | 20.31   | 21.00   |
|                        |            | 25      | 0         | 20.43                | 20.47   | 20.48   | 20.16   | 20.33   | 21.00   |
|                        | 64QAM      | 1       | 0         | 20.37                | 20.21   | 20.46   | 19.98   | 20.05   | 21.00   |
|                        |            | 1       | 13        | 20.40                | 20.45   | 20.50   | 20.08   | 20.24   | 21.00   |
|                        |            | 1       | 24        | 20.56                | 20.52   | 20.41   | 20.36   | 20.30   | 21.00   |
|                        |            | 12      | 0         | 20.32                | 20.28   | 20.64   | 20.31   | 20.06   | 21.00   |
|                        |            | 12      | 6         | 20.35                | 20.37   | 20.46   | 20.11   | 20.19   | 21.00   |
|                        |            | 12      | 13        | 20.54                | 20.48   | 20.42   | 20.24   | 20.18   | 21.00   |
|                        |            | 25      | 0         | 20.39                | 20.45   | 20.37   | 20.08   | 20.07   | 21.00   |
|                        | 256QAM     | 1       | 0         | 18.96                | 18.87   | 19.22   | 18.71   | 18.74   | 19.50   |
|                        |            | 1       | 13        | 18.85                | 19.03   | 19.14   | 18.74   | 18.77   | 19.50   |
|                        |            | 1       | 24        | 19.14                | 19.08   | 19.14   | 18.98   | 18.77   | 19.50   |
|                        |            | 12      | 0         | 18.92                | 18.76   | 19.14   | 18.90   | 18.86   | 19.50   |
|                        |            | 12      | 6         | 18.90                | 19.00   | 19.09   | 18.90   | 18.85   | 19.50   |
|                        |            | 12      | 13        | 19.14                | 18.96   | 19.10   | 19.02   | 18.97   | 19.50   |
|                        |            | 25      | 0         | 18.84                | 18.87   | 19.18   | 18.72   | 18.71   | 19.50   |
| Bandwidth              | Modulation | RB size |           | Channel              | Channel | Channel | Channel | Channel | Tune up |



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|           |            |         | RB offset | 39700   | 40160   | 40620   | 41080   | 41540   |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
| 10MHz     | QPSK       | 1       | 0         | 20.34   | 20.46   | 20.44   | 20.08   | 20.12   | 21.00   |
|           |            | 1       | 25        | 20.51   | 20.46   | 20.46   | 20.29   | 20.25   | 21.00   |
|           |            | 1       | 49        | 20.58   | 20.54   | 20.35   | 20.41   | 20.39   | 21.00   |
|           |            | 25      | 0         | 20.32   | 20.29   | 20.55   | 20.20   | 20.07   | 21.00   |
|           |            | 25      | 13        | 20.51   | 20.47   | 20.48   | 20.03   | 20.12   | 21.00   |
|           |            | 25      | 25        | 20.56   | 20.53   | 20.52   | 20.28   | 20.18   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.57   | 20.52   | 20.54   | 20.42   | 20.25   | 21.00   |
|           |            | 1       | 25        | 20.67   | 20.68   | 20.80   | 20.39   | 20.55   | 21.00   |
|           |            | 1       | 49        | 20.71   | 20.80   | 20.62   | 20.56   | 20.59   | 21.00   |
|           |            | 25      | 0         | 20.35   | 20.39   | 20.58   | 20.04   | 20.16   | 21.00   |
|           |            | 25      | 13        | 20.31   | 20.32   | 20.52   | 20.28   | 20.22   | 21.00   |
|           |            | 25      | 25        | 20.52   | 20.68   | 20.42   | 20.16   | 20.31   | 21.00   |
|           | 64QAM      | 1       | 0         | 20.36   | 20.40   | 20.57   | 20.08   | 20.05   | 21.00   |
|           |            | 1       | 25        | 20.30   | 20.29   | 20.62   | 20.12   | 20.09   | 21.00   |
|           |            | 1       | 49        | 20.59   | 20.60   | 20.37   | 20.22   | 20.35   | 21.00   |
|           |            | 25      | 0         | 20.35   | 20.34   | 20.58   | 20.28   | 20.18   | 21.00   |
|           |            | 25      | 13        | 20.30   | 20.32   | 20.61   | 20.13   | 20.15   | 21.00   |
|           |            | 25      | 25        | 20.43   | 20.55   | 20.42   | 20.15   | 20.15   | 21.00   |
|           | 256QAM     | 1       | 0         | 18.80   | 18.85   | 19.07   | 18.73   | 18.62   | 19.50   |
|           |            | 1       | 25        | 18.83   | 19.08   | 19.08   | 18.85   | 18.73   | 19.50   |
|           |            | 1       | 49        | 19.09   | 19.12   | 19.11   | 18.91   | 18.75   | 19.50   |
|           |            | 25      | 0         | 18.76   | 18.84   | 19.22   | 18.91   | 18.89   | 19.50   |
|           |            | 25      | 13        | 18.91   | 18.96   | 19.11   | 19.01   | 18.79   | 19.50   |
|           |            | 25      | 25        | 19.08   | 19.00   | 19.09   | 19.06   | 18.84   | 19.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.41   | 20.36   | 20.52   | 20.07   | 20.22   | 21.00   |
|           |            | 1       | 38        | 20.48   | 20.44   | 20.42   | 20.33   | 20.36   | 21.00   |
|           |            | 1       | 74        | 20.56   | 20.48   | 20.45   | 20.27   | 20.32   | 21.00   |
|           |            | 36      | 0         | 20.39   | 20.34   | 20.52   | 20.21   | 20.13   | 21.00   |
|           |            | 36      | 18        | 20.44   | 20.52   | 20.34   | 20.09   | 20.08   | 21.00   |
|           |            | 36      | 39        | 20.45   | 20.58   | 20.43   | 20.22   | 20.29   | 21.00   |
|           |            | 75      | 0         | 20.44   | 20.64   | 20.39   | 20.14   | 20.24   | 21.00   |
|           | 16QAM      | 1       | 0         | 20.51   | 20.42   | 20.72   | 20.29   | 20.40   | 21.00   |



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|       |           |            |         |           |         |         |         |         |         |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|       |           | 1          | 38      | 20.75     | 20.69   | 20.84   | 20.44   | 20.49   | 21.00   |         |
|       |           | 1          | 74      | 20.82     | 20.98   | 20.69   | 20.51   | 20.64   | 21.00   |         |
|       |           | 36         | 0       | 20.34     | 20.46   | 20.56   | 20.15   | 20.14   | 21.00   |         |
|       |           | 36         | 18      | 20.41     | 20.46   | 20.49   | 20.20   | 20.17   | 21.00   |         |
|       |           | 36         | 39      | 20.60     | 20.56   | 20.55   | 20.24   | 20.37   | 21.00   |         |
|       |           | 75         | 0       | 20.49     | 20.57   | 20.54   | 20.17   | 20.22   | 21.00   |         |
|       | 64QAM     | 1          | 0       | 20.29     | 20.22   | 20.62   | 20.07   | 20.05   | 21.00   |         |
|       |           | 1          | 38      | 20.41     | 20.29   | 20.62   | 20.11   | 20.06   | 21.00   |         |
|       |           | 1          | 74      | 20.57     | 20.68   | 20.37   | 20.23   | 20.45   | 21.00   |         |
|       |           | 36         | 0       | 20.29     | 20.22   | 20.56   | 20.29   | 20.09   | 21.00   |         |
|       |           | 36         | 18      | 20.31     | 20.31   | 20.41   | 20.22   | 20.29   | 21.00   |         |
|       |           | 36         | 39      | 20.43     | 20.37   | 20.54   | 20.20   | 20.24   | 21.00   |         |
|       | 256QAM    | 75         | 0       | 20.39     | 20.41   | 20.39   | 20.19   | 20.08   | 21.00   |         |
|       |           | 1          | 0       | 18.81     | 18.93   | 19.26   | 18.73   | 18.66   | 19.50   |         |
|       |           | 1          | 38      | 18.87     | 18.96   | 19.08   | 18.83   | 18.75   | 19.50   |         |
|       |           | 1          | 74      | 19.10     | 19.18   | 19.02   | 18.88   | 18.90   | 19.50   |         |
|       |           | 36         | 0       | 18.87     | 18.81   | 19.30   | 18.83   | 18.86   | 19.50   |         |
|       |           | 36         | 18      | 18.94     | 18.93   | 19.18   | 18.85   | 18.87   | 19.50   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
|       | 20MHz     | QPSK       | 1       | 0         | 20.39   | 20.38   | 20.49   | 20.12   | 20.17   | 21.00   |
| 1     |           |            | 50      | 20.42     | 20.38   | 20.50   | 20.26   | 20.26   | 21.00   |         |
| 1     |           |            | 99      | 20.55     | 20.47   | 20.41   | 20.37   | 20.38   | 21.00   |         |
| 50    |           |            | 0       | 20.31     | 20.31   | 20.45   | 20.18   | 20.13   | 21.00   |         |
| 50    |           |            | 25      | 20.41     | 20.49   | 20.43   | 20.11   | 20.18   | 21.00   |         |
| 50    |           |            | 50      | 20.49     | 20.50   | 20.45   | 20.28   | 20.24   | 21.00   |         |
| 16QAM |           | 100        | 0       | 20.45     | 20.55   | 20.47   | 20.24   | 20.19   | 21.00   |         |
|       |           | 1          | 0       | 20.60     | 20.51   | 20.64   | 20.32   | 20.31   | 21.00   |         |
|       |           | 1          | 50      | 20.65     | 20.64   | 20.78   | 20.48   | 20.45   | 21.00   |         |
|       |           | 1          | 99      | 20.81     | 20.89   | 20.69   | 20.50   | 20.59   | 21.00   |         |
|       |           | 50         | 0       | 20.30     | 20.36   | 20.50   | 20.11   | 20.16   | 21.00   |         |
|       |           | 50         | 25      | 20.39     | 20.40   | 20.50   | 20.29   | 20.22   | 21.00   |         |
| 64QAM |           | 50         | 50      | 20.52     | 20.60   | 20.49   | 20.25   | 20.27   | 21.00   |         |
|       |           | 100        | 0       | 20.46     | 20.53   | 20.53   | 20.14   | 20.24   | 21.00   |         |
|       |           | 1          | 0       | 20.34     | 20.31   | 20.52   | 20.08   | 20.15   | 21.00   |         |
|       |           | 1          | 50      | 20.33     | 20.39   | 20.56   | 20.06   | 20.15   | 21.00   |         |
|       |           | 1          | 99      | 20.51     | 20.59   | 20.45   | 20.30   | 20.37   | 21.00   |         |



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|        |     |    |       |       |       |       |       |       |
|--------|-----|----|-------|-------|-------|-------|-------|-------|
| 256QAM | 50  | 0  | 20.30 | 20.31 | 20.54 | 20.25 | 20.15 | 21.00 |
|        | 50  | 25 | 20.40 | 20.33 | 20.51 | 20.15 | 20.19 | 21.00 |
|        | 50  | 50 | 20.52 | 20.46 | 20.48 | 20.24 | 20.25 | 21.00 |
|        | 100 | 0  | 20.41 | 20.47 | 20.47 | 20.11 | 20.16 | 21.00 |
|        | 1   | 0  | 18.89 | 18.91 | 19.17 | 18.69 | 18.69 | 19.50 |
|        | 1   | 50 | 18.90 | 18.98 | 19.18 | 18.80 | 18.73 | 19.50 |
|        | 1   | 99 | 19.06 | 19.09 | 19.06 | 18.88 | 18.82 | 19.50 |
|        | 50  | 0  | 18.86 | 18.86 | 19.21 | 18.84 | 18.79 | 19.50 |
|        | 50  | 25 | 18.98 | 18.91 | 19.19 | 18.94 | 18.87 | 19.50 |
|        | 50  | 50 | 19.07 | 19.02 | 19.12 | 18.97 | 18.87 | 19.50 |
|        | 100 | 0  | 18.90 | 18.85 | 19.12 | 18.79 | 18.78 | 19.50 |

| LTE Band 41 PC3 Eci2/4/6 |            |         |           | 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         | 20.59                | 20.43   | 20.75   | 20.48   | 20.34   | 22.00   |
|                          |            | 1       | 13        | 20.61                | 20.55   | 20.98   | 20.48   | 20.34   | 22.00   |
|                          |            | 1       | 24        | 20.55                | 20.79   | 20.38   | 20.41   | 20.66   | 22.00   |
|                          |            | 12      | 0         | 19.49                | 19.54   | 19.83   | 19.33   | 19.23   | 21.00   |
|                          |            | 12      | 6         | 19.52                | 19.54   | 19.70   | 19.60   | 19.25   | 21.00   |
|                          |            | 12      | 13        | 19.45                | 19.74   | 19.85   | 19.41   | 19.53   | 21.00   |
|                          |            | 25      | 0         | 19.71                | 19.44   | 19.67   | 19.54   | 19.27   | 21.00   |
|                          | 16QAM      | 1       | 0         | 19.47                | 19.50   | 19.70   | 19.70   | 19.19   | 21.00   |
|                          |            | 1       | 13        | 19.37                | 19.50   | 19.88   | 19.38   | 19.60   | 21.00   |
|                          |            | 1       | 24        | 19.66                | 19.71   | 19.64   | 19.82   | 19.52   | 21.00   |
|                          |            | 12      | 0         | 18.38                | 18.60   | 18.61   | 18.35   | 18.45   | 20.00   |
|                          |            | 12      | 6         | 18.50                | 18.51   | 18.78   | 18.65   | 18.36   | 20.00   |
|                          |            | 12      | 13        | 18.64                | 18.61   | 18.67   | 18.47   | 18.69   | 20.00   |
|                          |            | 25      | 0         | 18.58                | 18.32   | 18.71   | 18.39   | 18.51   | 20.00   |
|                          | 64QAM      | 1       | 0         | 18.25                | 18.29   | 18.43   | 18.19   | 18.15   | 20.00   |
|                          |            | 1       | 13        | 18.03                | 18.10   | 18.35   | 18.38   | 18.19   | 20.00   |
|                          |            | 1       | 24        | 18.42                | 18.04   | 18.28   | 18.33   | 18.13   | 20.00   |
|                          |            | 12      | 0         | 17.33                | 17.51   | 17.80   | 17.27   | 17.31   | 19.00   |
|                          |            | 12      | 6         | 17.53                | 17.38   | 17.49   | 17.40   | 17.42   | 19.00   |
|                          |            | 12      | 13        | 17.29                | 17.57   | 17.85   | 17.70   | 17.35   | 19.00   |
|                          |            | 25      | 0         | 17.50                | 17.48   | 17.67   | 17.62   | 17.36   | 19.00   |
|                          | 256QAM     | 1       | 0         | 15.50                | 15.32   | 15.46   | 15.31   | 15.14   | 17.00   |
|                          |            | 1       | 13        | 15.43                | 15.40   | 15.49   | 15.42   | 15.13   | 17.00   |



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| Bandwidth | Modulation | RB size    | RB offset | Channel   | Channel | Channel | Channel | Channel | Tune up |         |
|-----------|------------|------------|-----------|-----------|---------|---------|---------|---------|---------|---------|
|           |            |            |           | 39700     | 40160   | 40620   | 41080   | 41540   |         |         |
| 10MHz     | QPSK       | 1          | 24        | 15.52     | 15.40   | 15.33   | 15.47   | 15.21   | 17.00   |         |
|           |            | 12         | 0         | 15.24     | 15.45   | 15.79   | 15.26   | 15.52   | 17.00   |         |
|           |            | 12         | 6         | 15.48     | 15.46   | 15.64   | 15.47   | 15.49   | 17.00   |         |
|           |            | 12         | 13        | 15.68     | 15.56   | 15.64   | 15.51   | 15.57   | 17.00   |         |
|           |            | 25         | 0         | 15.37     | 15.46   | 15.67   | 15.49   | 15.20   | 17.00   |         |
|           | 16QAM      | 1          | 0         | 19.34     | 19.37   | 19.64   | 19.53   | 19.15   | 21.00   |         |
|           |            |            | 25        | 19.36     | 19.68   | 19.80   | 19.34   | 19.49   | 21.00   |         |
|           |            | 1          | 49        | 19.66     | 19.79   | 19.58   | 19.76   | 19.56   | 21.00   |         |
|           |            |            | 25        | 0         | 18.39   | 18.48   | 18.75   | 18.38   | 18.40   | 20.00   |
|           |            | 25         | 13        | 18.58     | 18.55   | 18.73   | 18.49   | 18.45   | 20.00   |         |
|           |            |            | 25        | 25        | 18.54   | 18.60   | 18.65   | 18.51   | 18.58   | 20.00   |
|           |            | 50         | 0         | 18.58     | 18.32   | 18.82   | 18.37   | 18.61   | 20.00   |         |
|           |            |            | 1         | 0         | 18.17   | 18.27   | 18.32   | 18.24   | 18.13   | 20.00   |
|           |            | 64QAM      | 1         | 25        | 18.17   | 18.00   | 18.45   | 18.22   | 18.20   | 20.00   |
|           |            |            |           | 49        | 18.34   | 18.13   | 18.33   | 18.25   | 18.15   | 20.00   |
|           | 25         |            | 0         | 17.33     | 17.47   | 17.74   | 17.46   | 17.28   | 19.00   |         |
|           |            |            | 13        | 17.51     | 17.43   | 17.61   | 17.50   | 17.44   | 19.00   |         |
|           | 25         |            | 25        | 17.46     | 17.48   | 17.70   | 17.80   | 17.37   | 19.00   |         |
|           |            |            | 50        | 0         | 17.42   | 17.37   | 17.61   | 17.70   | 17.45   | 19.00   |
|           | 256QAM     | 1          | 0         | 15.52     | 15.21   | 15.55   | 15.29   | 15.16   | 17.00   |         |
|           |            |            | 25        | 15.46     | 15.41   | 15.49   | 15.44   | 15.02   | 17.00   |         |
|           |            | 1          | 49        | 15.38     | 15.35   | 15.37   | 15.47   | 15.24   | 17.00   |         |
|           |            |            | 25        | 0         | 15.32   | 15.39   | 15.65   | 15.15   | 15.56   | 17.00   |
|           |            | 25         | 13        | 15.58     | 15.48   | 15.76   | 15.43   | 15.34   | 17.00   |         |
|           |            |            | 25        | 25        | 15.59   | 15.58   | 15.55   | 15.63   | 15.48   | 17.00   |
|           |            | 50         | 0         | 15.36     | 15.53   | 15.60   | 15.49   | 15.24   | 17.00   |         |
|           | Bandwidth  | Modulation | RB size   | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |            |           |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
|           | 15MHz      | QPSK       | 1         | 0         | 20.63   | 20.52   | 20.79   | 20.45   | 20.39   | 22.00   |
|           |            |            | 1         | 38        | 20.50   | 20.65   | 20.78   | 20.67   | 20.39   | 22.00   |



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|------------------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|                  |            | 1       | 74        | 20.48   | 20.71   | 20.36   | 20.33   | 20.53   | 22.00   |
|                  |            | 36      | 0         | 19.65   | 19.51   | 19.86   | 19.35   | 19.28   | 21.00   |
|                  |            | 36      | 18        | 19.46   | 19.48   | 19.77   | 19.57   | 19.28   | 21.00   |
|                  |            | 36      | 39        | 19.44   | 19.74   | 19.85   | 19.47   | 19.58   | 21.00   |
|                  |            | 75      | 0         | 19.65   | 19.33   | 19.84   | 19.37   | 19.31   | 21.00   |
|                  | 16QAM      | 1       | 0         | 19.51   | 19.40   | 19.60   | 19.53   | 19.03   | 21.00   |
|                  |            | 1       | 38        | 19.50   | 19.51   | 19.88   | 19.37   | 19.41   | 21.00   |
|                  |            | 1       | 74        | 19.70   | 19.69   | 19.61   | 19.82   | 19.62   | 21.00   |
|                  |            | 36      | 0         | 18.27   | 18.54   | 18.76   | 18.32   | 18.32   | 20.00   |
|                  |            | 36      | 18        | 18.41   | 18.50   | 18.61   | 18.65   | 18.31   | 20.00   |
|                  |            | 36      | 39        | 18.53   | 18.60   | 18.74   | 18.47   | 18.64   | 20.00   |
|                  |            | 75      | 0         | 18.40   | 18.30   | 18.72   | 18.48   | 18.59   | 20.00   |
|                  | 64QAM      | 1       | 0         | 18.25   | 18.33   | 18.43   | 18.18   | 18.09   | 20.00   |
|                  |            | 1       | 38        | 18.10   | 18.09   | 18.47   | 18.26   | 18.15   | 20.00   |
|                  |            | 1       | 74        | 18.28   | 18.08   | 18.43   | 18.39   | 18.06   | 20.00   |
|                  |            | 36      | 0         | 17.48   | 17.36   | 17.80   | 17.42   | 17.27   | 19.00   |
|                  |            | 36      | 18        | 17.49   | 17.50   | 17.55   | 17.49   | 17.43   | 19.00   |
|                  |            | 36      | 39        | 17.49   | 17.56   | 17.69   | 17.74   | 17.51   | 19.00   |
|                  |            | 75      | 0         | 17.53   | 17.43   | 17.64   | 17.67   | 17.36   | 19.00   |
|                  | 256QAM     | 1       | 0         | 15.56   | 15.38   | 15.45   | 15.32   | 15.15   | 17.00   |
|                  |            | 1       | 38        | 15.52   | 15.25   | 15.51   | 15.36   | 15.08   | 17.00   |
|                  |            | 1       | 74        | 15.40   | 15.32   | 15.44   | 15.46   | 15.21   | 17.00   |
|                  |            | 36      | 0         | 15.25   | 15.49   | 15.65   | 15.24   | 15.52   | 17.00   |
|                  |            | 36      | 18        | 15.55   | 15.44   | 15.71   | 15.41   | 15.49   | 17.00   |
|                  |            | 36      | 39        | 15.56   | 15.63   | 15.65   | 15.53   | 15.55   | 17.00   |
|                  |            | 75      | 0         | 15.26   | 15.44   | 15.60   | 15.49   | 15.25   | 17.00   |
| <b>Bandwidth</b> | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|                  |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| <b>20MHz</b>     | QPSK       | 1       | 0         | 20.63   | 20.53   | 20.75   | 20.40   | 20.36   | 22.00   |
|                  |            | 1       | 50        | 20.59   | 20.62   | 20.88   | 20.58   | 20.35   | 22.00   |
|                  |            | 1       | 99        | 20.54   | 20.75   | 20.43   | 20.41   | 20.61   | 22.00   |
|                  |            | 50      | 0         | 19.55   | 19.44   | 19.80   | 19.40   | 19.33   | 21.00   |
|                  |            | 50      | 25        | 19.50   | 19.55   | 19.78   | 19.52   | 19.33   | 21.00   |
|                  |            | 50      | 50        | 19.40   | 19.64   | 19.76   | 19.42   | 19.59   | 21.00   |
|                  |            | 100     | 0         | 19.69   | 19.43   | 19.75   | 19.45   | 19.36   | 21.00   |
|                  | 16QAM      | 1       | 0         | 19.41   | 19.43   | 19.69   | 19.62   | 19.05   | 21.00   |
|                  |            | 1       | 50        | 19.42   | 19.59   | 19.90   | 19.41   | 19.50   | 21.00   |
|                  |            | 1       | 99        | 19.70   | 19.72   | 19.64   | 19.72   | 19.60   | 21.00   |
|                  |            | 50      | 0         | 18.31   | 18.54   | 18.69   | 18.41   | 18.39   | 20.00   |



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|  |        |     |       |       |       |       |       |       |       |
|--|--------|-----|-------|-------|-------|-------|-------|-------|-------|
|  | 64QAM  | 50  | 25    | 18.50 | 18.52 | 18.68 | 18.58 | 18.36 | 20.00 |
|  |        | 50  | 50    | 18.54 | 18.58 | 18.74 | 18.48 | 18.62 | 20.00 |
|  |        | 100 | 0     | 18.48 | 18.40 | 18.72 | 18.41 | 18.55 | 20.00 |
|  |        | 1   | 0     | 18.26 | 18.23 | 18.36 | 18.24 | 18.08 | 20.00 |
|  |        | 1   | 50    | 18.07 | 18.00 | 18.40 | 18.31 | 18.13 | 20.00 |
|  |        | 1   | 99    | 18.33 | 18.10 | 18.35 | 18.34 | 18.15 | 20.00 |
|  |        | 50  | 0     | 17.41 | 17.43 | 17.72 | 17.37 | 17.28 | 19.00 |
|  |        | 50  | 25    | 17.53 | 17.48 | 17.59 | 17.46 | 17.42 | 19.00 |
|  |        | 50  | 50    | 17.39 | 17.57 | 17.78 | 17.76 | 17.43 | 19.00 |
|  | 100    | 0   | 17.49 | 17.39 | 17.70 | 17.61 | 17.35 | 19.00 |       |
|  | 256QAM | 1   | 0     | 15.48 | 15.29 | 15.47 | 15.24 | 15.16 | 17.00 |
|  |        | 1   | 50    | 15.42 | 15.35 | 15.46 | 15.43 | 15.06 | 17.00 |
|  |        | 1   | 99    | 15.43 | 15.30 | 15.38 | 15.38 | 15.16 | 17.00 |
|  |        | 50  | 0     | 15.28 | 15.39 | 15.73 | 15.21 | 15.46 | 17.00 |
|  |        | 50  | 25    | 15.52 | 15.43 | 15.72 | 15.46 | 15.41 | 17.00 |
|  |        | 50  | 50    | 15.62 | 15.62 | 15.60 | 15.60 | 15.51 | 17.00 |
|  |        | 100 | 0     | 15.35 | 15.52 | 15.58 | 15.41 | 15.30 | 17.00 |

| LTE Band 41 PC3 Eci3/7 |            |         |           | 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         | 18.28                | 18.30   | 18.82   | 18.16   | 18.34   | 19.50   |
|                        |            | 1       | 13        | 18.51                | 18.60   | 18.83   | 18.33   | 18.43   | 19.50   |
|                        |            | 1       | 24        | 18.74                | 18.67   | 18.72   | 18.50   | 18.46   | 19.50   |
|                        |            | 12      | 0         | 18.47                | 18.44   | 18.83   | 18.33   | 18.55   | 19.50   |
|                        |            | 12      | 6         | 18.76                | 18.89   | 18.77   | 18.49   | 18.49   | 19.50   |
|                        |            | 12      | 13        | 18.71                | 18.75   | 18.82   | 18.44   | 18.46   | 19.50   |
|                        | 16QAM      | 25      | 0         | 18.60                | 18.73   | 18.73   | 18.46   | 18.57   | 19.50   |
|                        |            | 1       | 0         | 18.56                | 18.64   | 18.60   | 18.33   | 18.54   | 19.50   |
|                        |            | 1       | 13        | 18.65                | 18.48   | 18.89   | 18.24   | 18.40   | 19.50   |
|                        |            | 1       | 24        | 18.58                | 18.56   | 18.56   | 18.65   | 18.64   | 19.50   |
|                        |            | 12      | 0         | 18.52                | 18.69   | 18.85   | 18.38   | 18.25   | 19.50   |
|                        |            | 12      | 6         | 18.54                | 18.50   | 18.77   | 18.58   | 18.45   | 19.50   |
|                        | 64QAM      | 12      | 13        | 18.74                | 18.99   | 18.73   | 18.58   | 18.51   | 19.50   |
|                        |            | 25      | 0         | 18.67                | 18.67   | 18.90   | 18.65   | 18.40   | 19.50   |
|                        |            | 1       | 0         | 18.21                | 18.21   | 18.48   | 17.90   | 17.91   | 19.50   |
|                        |            | 1       | 13        | 18.10                | 18.17   | 18.42   | 18.09   | 18.00   | 19.50   |
|                        |            | 1       | 24        | 18.29                | 18.22   | 18.21   | 18.16   | 18.05   | 19.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|-------|
|           |            |         |           | 39700   | 40160   | 40620   | 41080   | 41540   |         |       |
| 10MHz     | 256QAM     | 12      | 0         | 17.98   | 17.82   | 18.11   | 17.70   | 17.77   | 19.00   |       |
|           |            | 12      | 6         | 18.00   | 18.06   | 18.12   | 17.71   | 17.72   | 19.00   |       |
|           |            | 12      | 13        | 18.07   | 18.10   | 18.01   | 17.84   | 17.77   | 19.00   |       |
|           |            | 25      | 0         | 18.01   | 17.94   | 18.09   | 17.70   | 17.82   | 19.00   |       |
|           |            | 1       | 0         | 15.67   | 15.78   | 15.97   | 15.50   | 15.54   | 17.00   |       |
|           |            | 1       | 13        | 15.75   | 15.86   | 15.91   | 15.47   | 15.61   | 17.00   |       |
|           |            | 1       | 24        | 15.95   | 15.83   | 15.79   | 15.75   | 15.72   | 17.00   |       |
|           |            | 12      | 0         | 15.95   | 15.87   | 16.15   | 15.74   | 15.85   | 17.00   |       |
|           | 12         | 6       | 16.09     | 16.18   | 16.26   | 15.83   | 15.79   | 17.00   |         |       |
|           | 12         | 13      | 16.01     | 16.08   | 16.13   | 15.69   | 15.80   | 17.00   |         |       |
|           | 25         | 0       | 15.88     | 16.06   | 16.15   | 15.76   | 15.71   | 17.00   |         |       |
|           | 10MHz      | QPSK    | 1         | 0       | 18.27   | 18.28   | 18.77   | 18.34   | 18.36   | 19.50 |
|           |            |         | 1         | 25      | 18.40   | 18.58   | 18.80   | 18.37   | 18.46   | 19.50 |
|           |            |         | 1         | 49      | 18.78   | 18.69   | 18.58   | 18.51   | 18.65   | 19.50 |
|           |            |         | 25        | 0       | 18.35   | 18.33   | 18.75   | 18.40   | 18.54   | 19.50 |
|           |            |         | 25        | 13      | 18.78   | 18.87   | 18.92   | 18.31   | 18.42   | 19.50 |
|           |            |         | 25        | 25      | 18.70   | 18.72   | 18.81   | 18.36   | 18.37   | 19.50 |
|           |            |         | 50        | 0       | 18.74   | 18.64   | 18.73   | 18.41   | 18.55   | 19.50 |
|           |            |         | 16QAM     | 1       | 0       | 18.53   | 18.47   | 18.60   | 18.32   | 18.40 |
|           |            | 1       |           | 25      | 18.62   | 18.45   | 18.81   | 18.37   | 18.29   | 19.50 |
|           |            | 1       |           | 49      | 18.72   | 18.55   | 18.52   | 18.50   | 18.59   | 19.50 |
|           |            | 25      |           | 0       | 18.58   | 18.77   | 18.88   | 18.40   | 18.39   | 19.50 |
|           |            | 25      |           | 13      | 18.48   | 18.43   | 18.90   | 18.53   | 18.56   | 19.50 |
|           |            | 25      |           | 25      | 18.76   | 18.97   | 18.76   | 18.60   | 18.49   | 19.50 |
|           |            | 50      |           | 0       | 18.68   | 18.68   | 18.86   | 18.61   | 18.38   | 19.50 |
|           |            | 64QAM   |           | 1       | 0       | 18.34   | 18.32   | 18.46   | 17.98   | 18.05 |
|           |            |         | 1         | 25      | 18.08   | 18.10   | 18.32   | 18.01   | 18.05   | 19.50 |
|           |            |         | 1         | 49      | 18.20   | 18.17   | 18.12   | 18.05   | 18.20   | 19.50 |
| 25        |            |         | 0         | 17.99   | 17.85   | 18.19   | 17.62   | 17.79   | 19.00   |       |
| 25        |            |         | 13        | 18.02   | 18.05   | 18.13   | 17.84   | 17.83   | 19.00   |       |
| 25        |            |         | 25        | 17.98   | 18.02   | 18.15   | 17.79   | 17.89   | 19.00   |       |
| 50        |            |         | 0         | 18.00   | 18.00   | 18.04   | 17.77   | 17.71   | 19.00   |       |
| 256QAM    |            |         | 1         | 0       | 15.75   | 15.85   | 15.85   | 15.55   | 15.51   | 17.00 |
|           |            | 1       | 25        | 15.76   | 15.78   | 16.01   | 15.52   | 15.59   | 17.00   |       |
|           |            | 1       | 49        | 16.03   | 15.77   | 15.94   | 15.72   | 15.76   | 17.00   |       |
|           |            | 25      | 0         | 15.97   | 15.84   | 16.23   | 15.68   | 15.84   | 17.00   |       |
|           |            | 25      | 13        | 16.04   | 15.99   | 16.18   | 15.90   | 15.80   | 17.00   |       |



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| Bandwidth | Modulation | RB size | RB offset | 25      | 25      | 16.07   | 16.16   | 16.12   | 15.89   | 15.93 | 17.00 |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|-------|-------|
|           |            |         |           | 50      | 0       | 16.06   | 15.98   | 16.09   | 15.85   | 15.90 | 17.00 |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |       |       |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |       |       |
| 15MHz     | QPSK       | 1       | 0         | 18.23   | 18.18   | 18.86   | 18.22   | 18.33   | 19.50   |       |       |
|           |            | 1       | 38        | 18.48   | 18.51   | 18.90   | 18.38   | 18.49   | 19.50   |       |       |
|           |            | 1       | 74        | 18.86   | 18.70   | 18.63   | 18.62   | 18.52   | 19.50   |       |       |
|           |            | 36      | 0         | 18.38   | 18.36   | 18.88   | 18.35   | 18.35   | 19.50   |       |       |
|           |            | 36      | 18        | 18.60   | 18.82   | 18.78   | 18.34   | 18.61   | 19.50   |       |       |
|           |            | 36      | 39        | 18.83   | 18.71   | 18.76   | 18.38   | 18.54   | 19.50   |       |       |
|           |            | 75      | 0         | 18.66   | 18.64   | 18.75   | 18.40   | 18.53   | 19.50   |       |       |
|           | 16QAM      | 1       | 0         | 18.41   | 18.58   | 18.71   | 18.46   | 18.52   | 19.50   |       |       |
|           |            | 1       | 38        | 18.56   | 18.60   | 18.89   | 18.41   | 18.27   | 19.50   |       |       |
|           |            | 1       | 74        | 18.60   | 18.64   | 18.66   | 18.57   | 18.65   | 19.50   |       |       |
|           |            | 36      | 0         | 18.61   | 18.80   | 18.88   | 18.40   | 18.31   | 19.50   |       |       |
|           |            | 36      | 18        | 18.45   | 18.53   | 18.94   | 18.59   | 18.53   | 19.50   |       |       |
|           |            | 36      | 39        | 18.84   | 18.85   | 18.78   | 18.60   | 18.51   | 19.50   |       |       |
|           |            | 75      | 0         | 18.58   | 18.72   | 18.96   | 18.58   | 18.38   | 19.50   |       |       |
|           | 64QAM      | 1       | 0         | 18.28   | 18.19   | 18.44   | 17.82   | 17.96   | 19.50   |       |       |
|           |            | 1       | 38        | 18.14   | 18.01   | 18.47   | 17.97   | 18.09   | 19.50   |       |       |
|           |            | 1       | 74        | 18.25   | 18.22   | 18.23   | 18.11   | 18.14   | 19.50   |       |       |
|           |            | 36      | 0         | 17.81   | 17.81   | 18.09   | 17.77   | 17.67   | 19.00   |       |       |
|           |            | 36      | 18        | 17.98   | 18.14   | 18.06   | 17.68   | 17.88   | 19.00   |       |       |
|           |            | 36      | 39        | 18.18   | 18.18   | 18.20   | 17.70   | 17.87   | 19.00   |       |       |
|           |            | 75      | 0         | 18.04   | 18.03   | 18.18   | 17.69   | 17.69   | 19.00   |       |       |
|           | 256QAM     | 1       | 0         | 15.70   | 15.89   | 15.88   | 15.50   | 15.44   | 17.00   |       |       |
|           |            | 1       | 38        | 15.76   | 15.93   | 16.07   | 15.54   | 15.58   | 17.00   |       |       |
|           |            | 1       | 74        | 15.98   | 15.88   | 15.95   | 15.67   | 15.76   | 17.00   |       |       |
|           |            | 36      | 0         | 15.94   | 15.82   | 16.27   | 15.82   | 15.79   | 17.00   |       |       |
|           |            | 36      | 18        | 16.11   | 15.99   | 16.24   | 15.87   | 15.78   | 17.00   |       |       |
|           |            | 36      | 39        | 16.17   | 16.07   | 16.19   | 15.84   | 15.85   | 17.00   |       |       |
|           |            | 75      | 0         | 15.93   | 16.00   | 16.09   | 15.79   | 15.88   | 17.00   |       |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |       |       |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |       |       |
| 20MHz     | QPSK       | 1       | 0         | 18.27   | 18.24   | 18.83   | 18.26   | 18.26   | 19.50   |       |       |
|           |            | 1       | 50        | 18.50   | 18.50   | 18.82   | 18.43   | 18.48   | 19.50   |       |       |
|           |            | 1       | 99        | 18.76   | 18.77   | 18.66   | 18.55   | 18.55   | 19.50   |       |       |
|           |            | 50      | 0         | 18.42   | 18.41   | 18.85   | 18.40   | 18.45   | 19.50   |       |       |
|           |            | 50      | 25        | 18.70   | 18.80   | 18.83   | 18.41   | 18.51   | 19.50   |       |       |



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|        |       |     |    |       |       |       |       |       |       |
|--------|-------|-----|----|-------|-------|-------|-------|-------|-------|
|        |       | 50  | 50 | 18.75 | 18.75 | 18.76 | 18.43 | 18.45 | 19.50 |
|        |       | 100 | 0  | 18.67 | 18.64 | 18.82 | 18.41 | 18.49 | 19.50 |
| 16QAM  |       | 1   | 0  | 18.46 | 18.55 | 18.65 | 18.41 | 18.44 | 19.50 |
|        |       | 1   | 50 | 18.60 | 18.55 | 18.90 | 18.32 | 18.37 | 19.50 |
|        |       | 1   | 99 | 18.67 | 18.61 | 18.61 | 18.58 | 18.55 | 19.50 |
|        |       | 50  | 0  | 18.61 | 18.71 | 18.79 | 18.36 | 18.35 | 19.50 |
|        |       | 50  | 25 | 18.54 | 18.44 | 18.84 | 18.58 | 18.49 | 19.50 |
|        |       | 50  | 50 | 18.82 | 18.91 | 18.81 | 18.54 | 18.49 | 19.50 |
|        |       | 100 | 0  | 18.62 | 18.64 | 18.87 | 18.56 | 18.47 | 19.50 |
|        | 64QAM |     | 1  | 0     | 18.29 | 18.28 | 18.44 | 17.89 | 17.95 |
|        |       | 1   | 50 | 18.10 | 18.08 | 18.39 | 18.06 | 18.02 | 19.50 |
|        |       | 1   | 99 | 18.22 | 18.23 | 18.18 | 18.12 | 18.15 | 19.50 |
|        |       | 50  | 0  | 17.89 | 17.88 | 18.16 | 17.67 | 17.75 | 19.00 |
|        |       | 50  | 25 | 18.00 | 18.05 | 18.15 | 17.76 | 17.81 | 19.00 |
|        |       | 50  | 50 | 18.08 | 18.09 | 18.10 | 17.80 | 17.83 | 19.00 |
|        |       | 100 | 0  | 17.99 | 17.98 | 18.09 | 17.73 | 17.75 | 19.00 |
| 256QAM |       | 1   | 0  | 15.76 | 15.81 | 15.92 | 15.46 | 15.54 | 17.00 |
|        |       | 1   | 50 | 15.77 | 15.85 | 16.01 | 15.55 | 15.59 | 17.00 |
|        |       | 1   | 99 | 15.94 | 15.87 | 15.85 | 15.72 | 15.69 | 17.00 |
|        |       | 50  | 0  | 15.92 | 15.88 | 16.19 | 15.76 | 15.78 | 17.00 |
|        |       | 50  | 25 | 16.02 | 16.08 | 16.21 | 15.90 | 15.86 | 17.00 |
|        |       | 50  | 50 | 16.08 | 16.06 | 16.12 | 15.79 | 15.87 | 17.00 |
|        |       | 100 | 0  | 15.96 | 16.05 | 16.13 | 15.76 | 15.81 | 17.00 |



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## 2 Conducted Power of Main Antenna (Ant1)

### 2.1 Conducted Power of GSM

| GSM 850 Eci3/4/6 |            |                         |       |       |         |                  |                                 |       |       |         |
|------------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|                  |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel          |            | 128                     | 190   | 251   | Tune up |                  | 128                             | 190   | 251   | Tune up |
| GSM(GMSK)        | GSM        | 31.38                   | 31.48 | 31.42 | 32.50   | -9.19            | 22.19                           | 22.29 | 22.23 | 23.31   |
| GPRS (GMSK)      | 1 TX Slot  | 31.33                   | 31.42 | 31.33 | 32.50   | -9.19            | 22.14                           | 22.23 | 22.14 | 23.31   |
|                  | 2 TX Slots | 28.46                   | 28.41 | 28.40 | 29.50   | -6.18            | 22.28                           | 22.23 | 22.22 | 23.32   |
|                  | 3 TX Slots | 26.74                   | 26.79 | 26.71 | 28.00   | -4.42            | 22.32                           | 22.37 | 22.29 | 23.58   |
|                  | 4 TX Slots | 25.31                   | 25.39 | 25.43 | 26.50   | -3.17            | 22.14                           | 22.22 | 22.26 | 23.33   |
| EGPRS (GMSK)     | 1 TX Slot  | 31.38                   | 31.40 | 31.37 | 32.50   | -9.19            | 22.19                           | 22.21 | 22.18 | 23.31   |
|                  | 2 TX Slots | 28.51                   | 28.36 | 28.49 | 29.50   | -6.18            | 22.33                           | 22.18 | 22.31 | 23.32   |
|                  | 3 TX Slots | 26.73                   | 26.71 | 26.79 | 28.00   | -4.42            | 22.31                           | 22.29 | 22.37 | 23.58   |
|                  | 4 TX Slots | 25.30                   | 25.41 | 25.40 | 26.50   | -3.17            | 22.13                           | 22.24 | 22.23 | 23.33   |
| EGPRS (8PSK)     | 1 TX Slot  | 26.41                   | 26.34 | 26.24 | 27.00   | -9.19            | 17.22                           | 17.15 | 17.05 | 17.81   |
|                  | 2 TX Slots | 25.11                   | 25.13 | 25.17 | 26.00   | -6.18            | 18.93                           | 18.95 | 18.99 | 19.82   |
|                  | 3 TX Slots | 22.67                   | 22.69 | 22.61 | 23.50   | -4.42            | 18.25                           | 18.27 | 18.19 | 19.08   |
|                  | 4 TX Slots | 21.25                   | 21.21 | 21.26 | 22.00   | -3.17            | 18.08                           | 18.04 | 18.09 | 18.83   |

| GSM 850 Eci2/7 |            |                         |       |       |         |                  |                                 |       |       |         |
|----------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|                |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel        |            | 128                     | 190   | 251   | Tune up |                  | 128                             | 190   | 251   | Tune up |
| GSM(GMSK)      | GSM        | 29.78                   | 29.84 | 29.79 | 31.00   | -9.19            | 20.59                           | 20.65 | 20.60 | 21.81   |
| GPRS (GMSK)    | 1 TX Slot  | 29.69                   | 29.74 | 29.76 | 31.00   | -9.19            | 20.50                           | 20.55 | 20.57 | 21.81   |
|                | 2 TX Slots | 26.74                   | 26.84 | 26.89 | 28.00   | -6.18            | 20.56                           | 20.66 | 20.71 | 21.82   |
|                | 3 TX Slots | 25.02                   | 25.13 | 25.12 | 26.50   | -4.42            | 20.60                           | 20.71 | 20.70 | 22.08   |
|                | 4 TX Slots | 23.67                   | 23.79 | 23.84 | 25.00   | -3.17            | 20.50                           | 20.62 | 20.67 | 21.83   |
| EGPRS (GMSK)   | 1 TX Slot  | 29.73                   | 29.76 | 29.82 | 31.00   | -9.19            | 20.54                           | 20.57 | 20.63 | 21.81   |
|                | 2 TX Slots | 26.75                   | 26.92 | 26.94 | 28.00   | -6.18            | 20.57                           | 20.74 | 20.76 | 21.82   |
|                | 3 TX Slots | 25.09                   | 25.14 | 25.22 | 26.50   | -4.42            | 20.67                           | 20.72 | 20.80 | 22.08   |
|                | 4 TX Slots | 23.67                   | 23.83 | 23.83 | 25.00   | -3.17            | 20.50                           | 20.66 | 20.66 | 21.83   |
| EGPRS (8PSK)   | 1 TX Slot  | 25.87                   | 26.01 | 26.06 | 27.00   | -9.19            | 16.68                           | 16.82 | 16.87 | 17.81   |
|                | 2 TX Slots | 24.64                   | 24.90 | 24.93 | 26.00   | -6.18            | 18.46                           | 18.72 | 18.75 | 19.82   |
|                | 3 TX Slots | 22.44                   | 22.61 | 22.81 | 23.50   | -4.42            | 18.02                           | 18.19 | 18.39 | 19.08   |
|                | 4 TX Slots | 21.23                   | 21.48 | 21.45 | 22.00   | -3.17            | 18.06                           | 18.31 | 18.28 | 18.83   |



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| GSM 1900 Eci4 |            |                         |       |       |         |                  |                                 |       |       |         |
|---------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|               |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel       |            | 512                     | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)     | GSM        | 28.03                   | 27.83 | 27.75 | 29.00   | -9.19            | 18.84                           | 18.64 | 18.56 | 19.81   |
| GPRS (GMSK)   | 1 TX Slot  | 27.95                   | 27.91 | 27.79 | 29.00   | -9.19            | 18.76                           | 18.72 | 18.60 | 19.81   |
|               | 2 TX Slots | 24.94                   | 24.91 | 24.81 | 26.00   | -6.18            | 18.76                           | 18.73 | 18.63 | 19.82   |
|               | 3 TX Slots | 23.16                   | 23.12 | 23.10 | 24.00   | -4.42            | 18.74                           | 18.70 | 18.68 | 19.58   |
|               | 4 TX Slots | 21.98                   | 22.01 | 21.85 | 23.00   | -3.17            | 18.81                           | 18.84 | 18.68 | 19.83   |
| EGPRS (GMSK)  | 1 TX Slot  | 27.97                   | 27.98 | 27.77 | 29.00   | -9.19            | 18.78                           | 18.79 | 18.58 | 19.81   |
|               | 2 TX Slots | 24.94                   | 24.99 | 24.89 | 26.00   | -6.18            | 18.76                           | 18.81 | 18.71 | 19.82   |
|               | 3 TX Slots | 23.25                   | 23.24 | 23.23 | 24.00   | -4.42            | 18.83                           | 18.82 | 18.81 | 19.58   |
|               | 4 TX Slots | 22.01                   | 21.91 | 21.85 | 23.00   | -3.17            | 18.84                           | 18.74 | 18.68 | 19.83   |
| EGPRS (8PSK)  | 1 TX Slot  | 23.99                   | 24.09 | 24.15 | 25.00   | -9.19            | 14.80                           | 14.90 | 14.96 | 15.81   |
|               | 2 TX Slots | 22.41                   | 22.47 | 22.52 | 23.50   | -6.18            | 16.23                           | 16.29 | 16.34 | 17.32   |
|               | 3 TX Slots | 20.37                   | 20.32 | 20.25 | 21.00   | -4.42            | 15.95                           | 15.90 | 15.83 | 16.58   |
|               | 4 TX Slots | 18.85                   | 18.79 | 18.70 | 20.00   | -3.17            | 15.68                           | 15.62 | 15.53 | 16.83   |

| GSM 1900 Eci2 |            |                         |       |       |         |                  |                                 |       |       |         |
|---------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|               |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel       |            | 512                     | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)     | GSM        | 22.03                   | 22.17 | 21.94 | 23.50   | -9.19            | 12.84                           | 12.98 | 12.75 | 14.31   |
| GPRS (GMSK)   | 1 TX Slot  | 21.95                   | 22.18 | 21.78 | 23.50   | -9.19            | 12.76                           | 12.99 | 12.59 | 14.31   |
|               | 2 TX Slots | 19.39                   | 19.18 | 18.95 | 20.50   | -6.18            | 13.21                           | 13.00 | 12.77 | 14.32   |
|               | 3 TX Slots | 17.66                   | 17.50 | 17.11 | 18.50   | -4.42            | 13.24                           | 13.08 | 12.69 | 14.08   |
|               | 4 TX Slots | 16.14                   | 16.22 | 15.94 | 17.50   | -3.17            | 12.97                           | 13.05 | 12.77 | 14.33   |
| EGPRS (GMSK)  | 1 TX Slot  | 21.91                   | 22.28 | 21.86 | 23.50   | -9.19            | 12.72                           | 13.09 | 12.67 | 14.31   |
|               | 2 TX Slots | 19.37                   | 19.29 | 18.90 | 20.50   | -6.18            | 13.19                           | 13.11 | 12.72 | 14.32   |
|               | 3 TX Slots | 17.67                   | 17.55 | 17.18 | 18.50   | -4.42            | 13.25                           | 13.13 | 12.76 | 14.08   |
|               | 4 TX Slots | 16.30                   | 16.19 | 15.81 | 17.50   | -3.17            | 13.13                           | 13.02 | 12.64 | 14.33   |
| EGPRS (8PSK)  | 1 TX Slot  | 22.35                   | 22.17 | 22.14 | 23.00   | -9.19            | 13.16                           | 12.98 | 12.95 | 13.81   |
|               | 2 TX Slots | 18.89                   | 18.68 | 18.87 | 19.50   | -6.18            | 12.71                           | 12.50 | 12.69 | 13.32   |
|               | 3 TX Slots | 16.61                   | 16.77 | 16.48 | 17.00   | -4.42            | 12.19                           | 12.35 | 12.06 | 12.58   |
|               | 4 TX Slots | 14.70                   | 14.71 | 14.53 | 16.00   | -3.17            | 11.53                           | 11.54 | 11.36 | 12.83   |

| GSM 1900 Eci3 |           |                         |       |       |         |                  |                                 |       |       |         |
|---------------|-----------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|               |           | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel       |           | 512                     | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)     | GSM       | 22.49                   | 22.69 | 22.40 | 24.00   | -9.19            | 13.30                           | 13.50 | 13.21 | 14.81   |
|               | 1 TX Slot | 22.42                   | 22.65 | 22.33 | 24.00   | -9.19            | 13.23                           | 13.46 | 13.14 | 14.81   |



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|-----------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GPRS<br>(GMSK)  | 2 TX Slots | 19.85 | 19.71 | 19.41 | 21.00 | -6.18 | 13.67 | 13.53 | 13.23 | 14.82 |
|                 | 3 TX Slots | 18.17 | 17.99 | 17.65 | 19.00 | -4.42 | 13.75 | 13.57 | 13.23 | 14.58 |
|                 | 4 TX Slots | 16.62 | 16.66 | 16.49 | 18.00 | -3.17 | 13.45 | 13.49 | 13.32 | 14.83 |
| EGPRS<br>(GMSK) | 1 TX Slot  | 22.46 | 22.73 | 22.33 | 24.00 | -9.19 | 13.27 | 13.54 | 13.14 | 14.81 |
|                 | 2 TX Slots | 19.89 | 19.79 | 19.41 | 21.00 | -6.18 | 13.71 | 13.61 | 13.23 | 14.82 |
|                 | 3 TX Slots | 18.22 | 18.07 | 17.66 | 19.00 | -4.42 | 13.80 | 13.65 | 13.24 | 14.58 |
|                 | 4 TX Slots | 16.84 | 16.70 | 16.27 | 18.00 | -3.17 | 13.67 | 13.53 | 13.10 | 14.83 |
| EGPRS<br>(8PSK) | 1 TX Slot  | 22.42 | 22.27 | 22.21 | 23.00 | -9.19 | 13.23 | 13.08 | 13.02 | 13.81 |
|                 | 2 TX Slots | 18.96 | 18.80 | 18.95 | 19.50 | -6.18 | 12.78 | 12.62 | 12.77 | 13.32 |
|                 | 3 TX Slots | 16.69 | 16.84 | 16.53 | 17.00 | -4.42 | 12.27 | 12.42 | 12.11 | 12.58 |
|                 | 4 TX Slots | 14.85 | 14.83 | 14.63 | 16.00 | -3.17 | 11.68 | 11.66 | 11.46 | 12.83 |

| GSM 1900 Eci7   |            |                         |       |       |         |                  |                                 |       |       |         |
|-----------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|                 |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel         |            | 512                     | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)       | GSM        | 21.50                   | 21.40 | 21.38 | 22.50   | -9.19            | 12.31                           | 12.21 | 12.19 | 13.31   |
| GPRS<br>(GMSK)  | 1 TX Slot  | 21.40                   | 21.37 | 21.29 | 22.50   | -9.19            | 12.21                           | 12.18 | 12.10 | 13.31   |
|                 | 2 TX Slots | 18.39                   | 18.34 | 18.22 | 19.50   | -6.18            | 12.21                           | 12.16 | 12.04 | 13.32   |
|                 | 3 TX Slots | 16.77                   | 16.66 | 16.51 | 17.50   | -4.42            | 12.35                           | 12.24 | 12.09 | 13.08   |
|                 | 4 TX Slots | 15.43                   | 15.44 | 15.27 | 16.50   | -3.17            | 12.26                           | 12.27 | 12.10 | 13.33   |
| EGPRS<br>(GMSK) | 1 TX Slot  | 21.40                   | 21.37 | 21.29 | 22.50   | -9.19            | 12.21                           | 12.18 | 12.10 | 13.31   |
|                 | 2 TX Slots | 18.39                   | 18.34 | 18.22 | 19.50   | -6.18            | 12.21                           | 12.16 | 12.04 | 13.32   |
|                 | 3 TX Slots | 16.77                   | 16.67 | 16.51 | 17.50   | -4.42            | 12.35                           | 12.25 | 12.09 | 13.08   |
|                 | 4 TX Slots | 15.58                   | 15.45 | 15.27 | 16.50   | -3.17            | 12.41                           | 12.28 | 12.10 | 13.33   |
| EGPRS<br>(8PSK) | 1 TX Slot  | 20.40                   | 20.36 | 20.27 | 22.00   | -9.19            | 11.21                           | 11.17 | 11.08 | 12.81   |
|                 | 2 TX Slots | 17.38                   | 17.32 | 17.20 | 19.00   | -6.18            | 11.20                           | 11.14 | 11.02 | 12.82   |
|                 | 3 TX Slots | 15.75                   | 15.64 | 15.49 | 16.50   | -4.42            | 11.33                           | 11.22 | 11.07 | 12.08   |
|                 | 4 TX Slots | 14.26                   | 14.12 | 13.95 | 15.00   | -3.17            | 11.09                           | 10.95 | 10.78 | 11.83   |

| GSM 1900 Eci6   |            |                         |       |       |         |                  |                                 |       |       |         |
|-----------------|------------|-------------------------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
|                 |            | Burst Output Power(dBm) |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel         |            | 512                     | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)       | GSM        | 25.95                   | 25.88 | 25.79 | 27.00   | -9.19            | 16.76                           | 16.69 | 16.60 | 17.81   |
| GPRS<br>(GMSK)  | 1 TX Slot  | 25.93                   | 25.83 | 25.71 | 27.00   | -9.19            | 16.74                           | 16.64 | 16.52 | 17.81   |
|                 | 2 TX Slots | 22.90                   | 22.86 | 22.77 | 24.00   | -6.18            | 16.72                           | 16.68 | 16.59 | 17.82   |
|                 | 3 TX Slots | 21.18                   | 21.12 | 21.06 | 22.00   | -4.42            | 16.76                           | 16.70 | 16.64 | 17.58   |
|                 | 4 TX Slots | 19.95                   | 19.97 | 19.76 | 21.00   | -3.17            | 16.78                           | 16.80 | 16.59 | 17.83   |
| EGPRS<br>(GMSK) | 1 TX Slot  | 25.96                   | 25.88 | 25.76 | 27.00   | -9.19            | 16.77                           | 16.69 | 16.57 | 17.81   |
|                 | 2 TX Slots | 22.93                   | 22.89 | 22.81 | 24.00   | -6.18            | 16.75                           | 16.71 | 16.63 | 17.82   |



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|                 |            |       |       |       |       |       |       |       |       |       |
|-----------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| EGPRS<br>(8PSK) | 3 TX Slots | 21.21 | 21.15 | 21.09 | 22.00 | -4.42 | 16.79 | 16.73 | 16.67 | 17.58 |
|                 | 4 TX Slots | 19.97 | 19.90 | 19.79 | 21.00 | -3.17 | 16.80 | 16.73 | 16.62 | 17.83 |
|                 | 1 TX Slot  | 23.93 | 23.83 | 23.71 | 25.00 | -9.19 | 14.74 | 14.64 | 14.52 | 15.81 |
|                 | 2 TX Slots | 22.42 | 22.37 | 22.27 | 23.50 | -6.18 | 16.24 | 16.19 | 16.09 | 17.32 |
|                 | 3 TX Slots | 20.19 | 20.13 | 20.07 | 21.00 | -4.42 | 15.77 | 15.71 | 15.65 | 16.58 |
|                 | 4 TX Slots | 18.96 | 18.98 | 18.77 | 20.00 | -3.17 | 15.79 | 15.81 | 15.60 | 16.83 |

**2.2 Conducted Power of WCDMA**

| WCDMA Band II Eci4           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.57 | 21.61 | 21.79 | 22.50   |
|                              | 12.2kbps AMR | 21.53 | 21.55 | 21.72 | 22.50   |
| HSDPA                        | Subtest 1    | 20.74 | 20.85 | 20.95 | 21.50   |
|                              | Subtest 2    | 20.75 | 20.83 | 20.96 | 21.50   |
|                              | Subtest 3    | 20.29 | 20.44 | 20.50 | 21.00   |
|                              | Subtest 4    | 20.31 | 20.39 | 20.46 | 21.00   |
| HSUPA                        | Subtest 1    | 18.82 | 18.89 | 18.98 | 19.50   |
|                              | Subtest 2    | 18.78 | 18.90 | 19.00 | 19.50   |
|                              | Subtest 3    | 19.83 | 19.92 | 20.01 | 20.50   |
|                              | Subtest 4    | 18.35 | 18.41 | 18.50 | 19.00   |
|                              | Subtest 5    | 19.79 | 19.90 | 20.00 | 20.50   |
| DC-HSDPA                     | Subtest 1    | 20.82 | 20.77 | 20.88 | 21.50   |
|                              | Subtest 2    | 20.80 | 20.92 | 20.93 | 21.50   |
|                              | Subtest 3    | 20.27 | 20.46 | 20.48 | 21.00   |
|                              | Subtest 4    | 20.38 | 20.44 | 20.50 | 21.00   |
| HSPA+                        | 16QAM        | 18.14 | 17.85 | 18.01 | 19.50   |

| WCDMA Band II Eci3           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 15.49 | 15.66 | 15.77 | 16.00   |
|                              | 12.2kbps AMR | 15.56 | 15.68 | 15.75 | 16.00   |
| HSDPA                        | Subtest 1    | 14.33 | 14.26 | 14.35 | 15.00   |
|                              | Subtest 2    | 14.29 | 14.28 | 14.36 | 15.00   |
|                              | Subtest 3    | 13.74 | 13.92 | 13.93 | 14.50   |
|                              | Subtest 4    | 13.75 | 13.89 | 13.93 | 14.50   |
| HSUPA                        | Subtest 1    | 12.39 | 12.32 | 12.58 | 13.00   |
|                              | Subtest 2    | 12.21 | 12.30 | 12.44 | 13.00   |



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|          |           |       |       |       |       |
|----------|-----------|-------|-------|-------|-------|
|          | Subtest 3 | 13.37 | 13.34 | 13.56 | 14.00 |
|          | Subtest 4 | 11.92 | 11.92 | 11.94 | 12.50 |
|          | Subtest 5 | 13.25 | 13.33 | 13.60 | 14.00 |
| DC-HSDPA | Subtest 1 | 14.29 | 14.26 | 14.43 | 15.00 |
|          | Subtest 2 | 14.34 | 14.33 | 14.51 | 15.00 |
|          | Subtest 3 | 13.68 | 14.01 | 13.94 | 14.50 |
|          | Subtest 4 | 13.82 | 13.90 | 13.96 | 14.50 |
| HSPA+    | 16QAM     | 11.72 | 11.39 | 11.51 | 13.00 |

| WCDMA Band II Eci2/7         |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 12.28 | 12.32 | 12.32 | 13.00   |
|                              | 12.2kbps AMR | 12.26 | 12.33 | 12.28 | 13.00   |
| HSDPA                        | Subtest 1    | 11.27 | 11.37 | 11.38 | 12.00   |
|                              | Subtest 2    | 11.32 | 11.28 | 11.39 | 12.00   |
|                              | Subtest 3    | 10.71 | 10.90 | 10.93 | 11.50   |
|                              | Subtest 4    | 10.82 | 10.86 | 11.03 | 11.50   |
| HSUPA                        | Subtest 1    | 9.41  | 9.41  | 9.50  | 10.00   |
|                              | Subtest 2    | 9.19  | 9.36  | 9.56  | 10.00   |
|                              | Subtest 3    | 10.33 | 10.39 | 10.49 | 11.00   |
|                              | Subtest 4    | 8.77  | 8.93  | 8.92  | 9.50    |
|                              | Subtest 5    | 10.31 | 10.39 | 10.45 | 11.00   |
| DC-HSDPA                     | Subtest 1    | 11.34 | 11.31 | 11.36 | 12.00   |
|                              | Subtest 2    | 11.36 | 11.40 | 11.51 | 12.00   |
|                              | Subtest 3    | 10.84 | 10.90 | 10.89 | 11.50   |
|                              | Subtest 4    | 10.85 | 10.96 | 11.06 | 11.50   |
| HSPA+                        | 16QAM        | 8.59  | 8.50  | 8.58  | 10.00   |

| WCDMA Band II Eci6           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 18.9  | 18.92 | 18.92 | 19.50   |
|                              | 12.2kbps AMR | 18.87 | 18.9  | 19.02 | 19.50   |
| HSDPA                        | Subtest 1    | 17.64 | 17.92 | 17.98 | 18.50   |
|                              | Subtest 2    | 17.68 | 17.81 | 18.03 | 18.50   |
|                              | Subtest 3    | 17.39 | 17.47 | 17.47 | 18.00   |
|                              | Subtest 4    | 17.29 | 17.29 | 17.56 | 18.00   |
| HSUPA                        | Subtest 1    | 15.88 | 15.81 | 15.93 | 16.50   |
|                              | Subtest 2    | 15.86 | 15.87 | 16.06 | 16.50   |



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|          |           |       |       |       |       |
|----------|-----------|-------|-------|-------|-------|
|          | Subtest 3 | 16.88 | 16.85 | 16.91 | 17.50 |
|          | Subtest 4 | 15.42 | 15.43 | 15.60 | 16.00 |
|          | Subtest 5 | 16.79 | 16.97 | 17.03 | 17.50 |
| DC-HSDPA | Subtest 1 | 17.88 | 17.86 | 17.94 | 18.50 |
|          | Subtest 2 | 17.84 | 18.00 | 18.00 | 18.50 |
|          | Subtest 3 | 17.17 | 17.36 | 17.42 | 18.00 |
|          | Subtest 4 | 17.35 | 17.42 | 17.58 | 18.00 |
| HSPA+    | 16QAM     | 15.17 | 15.01 | 15.04 | 16.50 |

| WCDMA Band IV Eci4           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.58 | 21.53 | 21.48 | 22.50   |
|                              | 12.2kbps AMR | 21.56 | 21.5  | 21.44 | 22.50   |
| HSDPA                        | Subtest 1    | 20.75 | 20.71 | 20.72 | 21.50   |
|                              | Subtest 2    | 20.75 | 20.74 | 20.74 | 21.50   |
|                              | Subtest 3    | 20.28 | 20.29 | 20.31 | 21.00   |
|                              | Subtest 4    | 20.24 | 20.27 | 20.25 | 21.00   |
| HSUPA                        | Subtest 1    | 19.28 | 18.74 | 18.73 | 19.50   |
|                              | Subtest 2    | 18.73 | 18.76 | 18.73 | 19.50   |
|                              | Subtest 3    | 19.78 | 19.78 | 19.77 | 20.50   |
|                              | Subtest 4    | 18.28 | 18.27 | 18.26 | 19.00   |
|                              | Subtest 5    | 19.76 | 19.75 | 19.74 | 20.50   |
| DC-HSDPA                     | Subtest 1    | 20.68 | 20.75 | 20.63 | 21.50   |
|                              | Subtest 2    | 20.83 | 20.76 | 20.82 | 21.50   |
|                              | Subtest 3    | 20.28 | 20.22 | 20.37 | 21.00   |
|                              | Subtest 4    | 20.25 | 20.19 | 20.22 | 21.00   |
| HSPA+                        | 16QAM        | 18.07 | 17.96 | 18.04 | 19.50   |

| WCDMA Band IV Eci3           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 17.1  | 17.02 | 17.04 | 17.50   |
|                              | 12.2kbps AMR | 17.09 | 17.01 | 16.97 | 17.50   |
| HSDPA                        | Subtest 1    | 15.73 | 15.71 | 15.67 | 16.50   |
|                              | Subtest 2    | 15.70 | 15.68 | 15.77 | 16.50   |
|                              | Subtest 3    | 15.29 | 15.38 | 15.39 | 16.00   |
|                              | Subtest 4    | 15.14 | 15.26 | 15.23 | 16.00   |
| HSUPA                        | Subtest 1    | 14.24 | 13.76 | 13.73 | 14.50   |
|                              | Subtest 2    | 13.78 | 13.82 | 13.69 | 14.50   |



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|----------|-----------|-------|-------|-------|-------|
|          | Subtest 3 | 14.74 | 14.75 | 14.70 | 15.50 |
|          | Subtest 4 | 13.37 | 13.27 | 13.36 | 14.00 |
|          | Subtest 5 | 14.74 | 14.67 | 14.84 | 15.50 |
| DC-HSDPA | Subtest 1 | 15.58 | 15.76 | 15.60 | 16.50 |
|          | Subtest 2 | 15.85 | 15.71 | 15.80 | 16.50 |
|          | Subtest 3 | 15.32 | 15.20 | 15.27 | 16.00 |
|          | Subtest 4 | 15.25 | 15.23 | 15.31 | 16.00 |
| HSPA+    | 16QAM     | 13.08 | 12.94 | 13.15 | 14.50 |

| WCDMA Band IV Eci2/7         |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 13.28 | 13.21 | 13.09 | 14.00   |
|                              | 12.2kbps AMR | 13.25 | 13.18 | 13.05 | 14.00   |
| HSDPA                        | Subtest 1    | 12.25 | 12.17 | 12.12 | 13.00   |
|                              | Subtest 2    | 12.33 | 12.29 | 12.24 | 13.00   |
|                              | Subtest 3    | 11.76 | 11.87 | 11.90 | 12.50   |
|                              | Subtest 4    | 11.70 | 11.83 | 11.78 | 12.50   |
| HSUPA                        | Subtest 1    | 10.81 | 10.33 | 10.14 | 11.00   |
|                              | Subtest 2    | 10.33 | 10.19 | 10.16 | 11.00   |
|                              | Subtest 3    | 11.28 | 11.32 | 11.18 | 12.00   |
|                              | Subtest 4    | 9.70  | 9.78  | 9.67  | 10.50   |
|                              | Subtest 5    | 11.31 | 11.16 | 11.22 | 12.00   |
| DC-HSDPA                     | Subtest 1    | 12.08 | 12.21 | 12.07 | 13.00   |
|                              | Subtest 2    | 12.28 | 12.31 | 12.38 | 13.00   |
|                              | Subtest 3    | 11.81 | 11.76 | 11.86 | 12.50   |
|                              | Subtest 4    | 11.74 | 11.71 | 11.81 | 12.50   |
| HSPA+                        | 16QAM        | 9.58  | 9.48  | 9.60  | 11.00   |

| WCDMA Band IV Eci6           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 17.84 | 17.73 | 17.68 | 18.50   |
|                              | 12.2kbps AMR | 17.86 | 17.75 | 17.69 | 18.50   |
| HSDPA                        | Subtest 1    | 16.85 | 16.72 | 16.76 | 18.50   |
|                              | Subtest 2    | 16.75 | 16.71 | 16.71 | 18.50   |
|                              | Subtest 3    | 16.27 | 16.30 | 16.28 | 18.00   |
|                              | Subtest 4    | 16.14 | 16.19 | 16.17 | 18.00   |
| HSUPA                        | Subtest 1    | 15.35 | 14.72 | 14.74 | 16.50   |
|                              | Subtest 2    | 14.67 | 14.81 | 14.73 | 16.50   |



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|----------|-----------|-------|-------|-------|-------|
|          | Subtest 3 | 15.77 | 15.75 | 15.84 | 17.50 |
|          | Subtest 4 | 14.28 | 14.25 | 14.30 | 16.00 |
|          | Subtest 5 | 15.72 | 15.77 | 15.77 | 17.50 |
| DC-HSDPA | Subtest 1 | 16.76 | 16.68 | 16.69 | 18.50 |
|          | Subtest 2 | 16.84 | 16.82 | 16.90 | 18.50 |
|          | Subtest 3 | 16.24 | 16.28 | 16.31 | 18.00 |
|          | Subtest 4 | 16.23 | 16.20 | 16.26 | 18.00 |
| HSPA+    | 16QAM     | 14.11 | 13.96 | 14.02 | 15.50 |

| WCDMA Band V Eci3/4/6        |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 22.20 | 22.13 | 22.11 | 23.00   |
|                              | 12.2kbps AMR | 22.15 | 22.07 | 22.08 | 23.00   |
| HSDPA                        | Subtest 1    | 21.28 | 21.28 | 21.15 | 22.00   |
|                              | Subtest 2    | 21.34 | 21.32 | 21.14 | 22.00   |
|                              | Subtest 3    | 20.83 | 20.87 | 20.70 | 21.50   |
|                              | Subtest 4    | 20.85 | 20.80 | 20.66 | 21.50   |
| HSUPA                        | Subtest 1    | 19.30 | 19.29 | 19.14 | 20.00   |
|                              | Subtest 2    | 19.32 | 19.29 | 19.14 | 20.00   |
|                              | Subtest 3    | 20.33 | 20.32 | 20.16 | 21.00   |
|                              | Subtest 4    | 18.79 | 18.82 | 18.65 | 19.50   |
|                              | Subtest 5    | 20.30 | 20.28 | 20.12 | 21.00   |
| DC-HSDPA                     | Subtest 1    | 21.30 | 21.24 | 21.09 | 22.00   |
|                              | Subtest 2    | 21.43 | 21.36 | 21.13 | 22.00   |
|                              | Subtest 3    | 20.84 | 20.90 | 20.62 | 21.50   |
|                              | Subtest 4    | 20.93 | 20.81 | 20.63 | 21.50   |
| HSPA+                        | 16QAM        | 18.76 | 18.55 | 18.56 | 19.50   |

| WCDMA Band V Eci7            |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.85 | 21.79 | 21.79 | 22.50   |
|                              | 12.2kbps AMR | 21.82 | 21.74 | 21.75 | 22.50   |
| HSDPA                        | Subtest 1    | 20.68 | 20.68 | 20.55 | 21.50   |
|                              | Subtest 2    | 20.74 | 20.72 | 20.60 | 21.50   |
|                              | Subtest 3    | 20.30 | 20.32 | 20.15 | 21.00   |
|                              | Subtest 4    | 20.39 | 20.40 | 20.18 | 21.00   |
| HSUPA                        | Subtest 1    | 18.89 | 18.87 | 18.58 | 19.50   |
|                              | Subtest 2    | 18.92 | 18.77 | 18.57 | 19.50   |



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|          |           |       |       |       |       |
|----------|-----------|-------|-------|-------|-------|
|          | Subtest 3 | 19.88 | 19.78 | 19.66 | 20.50 |
|          | Subtest 4 | 18.25 | 18.25 | 18.20 | 19.00 |
|          | Subtest 5 | 19.78 | 19.86 | 19.69 | 20.50 |
| DC-HSDPA | Subtest 1 | 20.83 | 20.79 | 20.59 | 21.50 |
|          | Subtest 2 | 21.00 | 20.84 | 20.68 | 21.50 |
|          | Subtest 3 | 20.32 | 20.32 | 20.15 | 21.00 |
|          | Subtest 4 | 20.34 | 20.39 | 20.17 | 21.00 |
| HSPA+    | 16QAM     | 18.19 | 18.08 | 17.98 | 19.00 |

| WCDMA Band V Eci2            |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.30 | 21.33 | 21.25 | 22.00   |
|                              | 12.2kbps AMR | 21.29 | 21.26 | 21.21 | 22.00   |
| HSDPA                        | Subtest 1    | 20.37 | 20.27 | 20.16 | 21.00   |
|                              | Subtest 2    | 20.32 | 20.25 | 20.21 | 21.00   |
|                              | Subtest 3    | 19.80 | 19.93 | 19.65 | 20.50   |
|                              | Subtest 4    | 19.91 | 19.86 | 19.69 | 20.50   |
| HSUPA                        | Subtest 1    | 18.36 | 18.27 | 18.18 | 19.00   |
|                              | Subtest 2    | 18.34 | 18.22 | 18.07 | 19.00   |
|                              | Subtest 3    | 19.27 | 19.40 | 19.15 | 20.00   |
|                              | Subtest 4    | 17.72 | 17.79 | 17.65 | 18.50   |
|                              | Subtest 5    | 19.30 | 19.32 | 19.20 | 20.00   |
| DC-HSDPA                     | Subtest 1    | 20.35 | 20.24 | 20.18 | 21.00   |
|                              | Subtest 2    | 20.41 | 20.34 | 20.16 | 21.00   |
|                              | Subtest 3    | 19.78 | 19.84 | 19.54 | 20.50   |
|                              | Subtest 4    | 19.93 | 19.76 | 19.66 | 20.50   |
| HSPA+                        | 16QAM        | 17.61 | 17.64 | 17.59 | 18.50   |



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**2.3 Conducted Power of LTE**

| LTE Band 2 Eci4 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 21.26                | 21.13   | 21.25   | 22.50   |
|                 |            | 1       | 2         | 21.36                | 21.22   | 21.09   | 22.50   |
|                 |            | 1       | 5         | 21.32                | 21.12   | 21.40   | 22.50   |
|                 |            | 3       | 0         | 21.12                | 21.26   | 21.04   | 22.50   |
|                 |            | 3       | 2         | 21.06                | 21.23   | 21.18   | 22.50   |
|                 |            | 3       | 3         | 21.21                | 21.10   | 21.21   | 22.50   |
|                 |            | 6       | 0         | 20.16                | 20.35   | 20.27   | 21.50   |
|                 | 16QAM      | 1       | 0         | 20.29                | 20.64   | 20.14   | 21.50   |
|                 |            | 1       | 2         | 20.38                | 20.60   | 20.16   | 21.50   |
|                 |            | 1       | 5         | 20.56                | 20.21   | 20.50   | 21.50   |
|                 |            | 3       | 0         | 20.11                | 20.27   | 20.20   | 21.50   |
|                 |            | 3       | 2         | 20.36                | 20.30   | 20.26   | 21.50   |
|                 |            | 3       | 3         | 20.32                | 20.17   | 20.34   | 21.50   |
|                 |            | 6       | 0         | 19.19                | 19.30   | 19.16   | 20.50   |
|                 | 64QAM      | 1       | 0         | 19.40                | 19.36   | 19.17   | 20.50   |
|                 |            | 1       | 2         | 19.24                | 19.35   | 19.28   | 20.50   |
|                 |            | 1       | 5         | 19.44                | 19.32   | 19.47   | 20.50   |
|                 |            | 3       | 0         | 19.18                | 19.21   | 19.17   | 20.50   |
|                 |            | 3       | 2         | 19.34                | 19.23   | 19.34   | 20.50   |
|                 |            | 3       | 3         | 19.30                | 19.20   | 19.22   | 20.50   |
|                 |            | 6       | 0         | 18.30                | 18.26   | 18.26   | 19.50   |
|                 | 256QAM     | 1       | 0         | 16.26                | 16.43   | 16.20   | 17.50   |
|                 |            | 1       | 2         | 16.39                | 16.47   | 16.35   | 17.50   |
|                 |            | 1       | 5         | 16.31                | 16.17   | 16.56   | 17.50   |
|                 |            | 3       | 0         | 16.09                | 16.20   | 16.25   | 17.50   |
|                 |            | 3       | 2         | 16.33                | 16.20   | 16.30   | 17.50   |
|                 |            | 3       | 3         | 16.38                | 16.22   | 16.07   | 17.50   |
|                 |            | 6       | 0         | 16.25                | 16.20   | 16.18   | 17.50   |
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz            | QPSK       | 1       | 0         | 21.13                | 21.30   | 21.29   | 22.50   |
|                 |            | 1       | 7         | 21.41                | 21.25   | 21.02   | 22.50   |
|                 |            | 1       | 14        | 21.43                | 21.17   | 21.27   | 22.50   |



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|           |            |         |           |         |         |         |         |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            | 8       | 0         | 20.11   | 20.30   | 20.10   | 21.50   |       |
|           |            | 8       | 4         | 20.03   | 20.18   | 20.30   | 21.50   |       |
|           |            | 8       | 7         | 20.12   | 20.23   | 20.25   | 21.50   |       |
|           |            | 15      | 0         | 20.19   | 20.23   | 20.18   | 21.50   |       |
|           | 16QAM      | 1       | 0         | 20.39   | 20.62   | 20.24   | 21.50   |       |
|           |            | 1       | 7         | 20.46   | 20.67   | 20.26   | 21.50   |       |
|           |            | 1       | 14        | 20.45   | 20.26   | 20.61   | 21.50   |       |
|           |            | 8       | 0         | 19.07   | 19.32   | 19.13   | 20.50   |       |
|           |            | 8       | 4         | 19.31   | 19.25   | 19.31   | 20.50   |       |
|           |            | 8       | 7         | 19.23   | 19.32   | 19.31   | 20.50   |       |
|           | 64QAM      | 15      | 0         | 19.17   | 19.33   | 19.32   | 20.50   |       |
|           |            | 1       | 0         | 19.35   | 19.22   | 19.19   | 20.50   |       |
|           |            | 1       | 7         | 19.32   | 19.33   | 19.32   | 20.50   |       |
|           |            | 1       | 14        | 19.50   | 19.38   | 19.57   | 20.50   |       |
|           |            | 8       | 0         | 18.07   | 18.28   | 18.15   | 19.50   |       |
|           |            | 8       | 4         | 18.26   | 18.29   | 18.26   | 19.50   |       |
|           | 256QAM     | 8       | 7         | 18.38   | 18.18   | 18.25   | 19.50   |       |
|           |            | 15      | 0         | 18.29   | 18.39   | 18.20   | 19.50   |       |
|           |            | 1       | 0         | 16.32   | 16.40   | 16.32   | 17.50   |       |
|           |            | 1       | 7         | 16.27   | 16.35   | 16.32   | 17.50   |       |
|           |            | 1       | 14        | 16.42   | 16.25   | 16.38   | 17.50   |       |
|           |            | 8       | 0         | 16.20   | 16.35   | 16.13   | 17.50   |       |
|           | 5MHz       | QPSK    | 8         | 4       | 16.19   | 16.26   | 16.21   | 17.50 |
|           |            |         | 8         | 7       | 16.29   | 16.33   | 16.12   | 17.50 |
| 15        |            |         | 0         | 16.26   | 16.27   | 16.14   | 17.50   |       |
| 1         |            |         | 0         | 21.22   | 21.16   | 21.39   | 22.50   |       |
| 1         |            |         | 13        | 21.26   | 21.28   | 21.16   | 22.50   |       |
| 1         |            |         | 24        | 21.43   | 21.16   | 21.34   | 22.50   |       |
| 16QAM     |            | 12      | 0         | 20.16   | 20.16   | 20.13   | 21.50   |       |
|           |            | 12      | 6         | 20.21   | 20.18   | 20.22   | 21.50   |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|           |            |         |           | 18625   | 18900   | 19175   |         |       |
|           | 12         | 13      | 12        | 13      | 20.16   | 20.26   | 20.31   | 21.50 |
|           |            |         |           |         | 20.24   | 20.25   | 20.21   | 21.50 |
|           |            |         |           |         | 20.30   | 20.69   | 20.31   | 21.50 |
|           |            |         |           |         | 20.32   | 20.54   | 20.28   | 21.50 |
|           |            |         |           |         | 20.45   | 20.24   | 20.52   | 21.50 |
|           |            |         |           |         | 19.10   | 19.16   | 19.23   | 20.50 |
| 12        | 6          | 19.34   | 19.30     | 19.33   | 20.50   |         |         |       |



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|       | 64QAM     | 12         | 13      | 19.26     | 19.24   | 19.34   | 20.50   |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 25         | 0       | 19.10     | 19.30   | 19.20   | 20.50   |         |
|       |           | 1          | 0       | 19.42     | 19.38   | 19.07   | 20.50   |         |
|       |           | 1          | 13      | 19.37     | 19.40   | 19.29   | 20.50   |         |
|       |           | 1          | 24      | 19.47     | 19.20   | 19.46   | 20.50   |         |
|       |           | 12         | 0       | 18.21     | 18.16   | 18.16   | 19.50   |         |
|       |           | 12         | 6       | 18.23     | 18.34   | 18.29   | 19.50   |         |
|       |           | 12         | 13      | 18.40     | 18.25   | 18.27   | 19.50   |         |
|       |           | 25         | 0       | 18.33     | 18.28   | 18.18   | 19.50   |         |
|       | 256QAM    | 1          | 0       | 16.12     | 16.47   | 16.21   | 17.50   |         |
|       |           | 1          | 13      | 16.20     | 16.35   | 16.36   | 17.50   |         |
|       |           | 1          | 24      | 16.36     | 16.25   | 16.41   | 17.50   |         |
|       |           | 12         | 0       | 16.02     | 16.30   | 16.18   | 17.50   |         |
|       |           | 12         | 6       | 16.22     | 16.18   | 16.22   | 17.50   |         |
|       |           | 12         | 13      | 16.28     | 16.22   | 16.20   | 17.50   |         |
|       |           | 25         | 0       | 16.18     | 16.19   | 16.23   | 17.50   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz | QPSK      | 1          | 0       | 21.30     | 21.14   | 21.36   | 22.50   |         |
|       |           | 1          | 25      | 21.29     | 21.18   | 21.14   | 22.50   |         |
|       |           | 1          | 49      | 21.49     | 21.12   | 21.36   | 22.50   |         |
|       |           | 25         | 0       | 20.16     | 20.30   | 20.21   | 21.50   |         |
|       |           | 25         | 13      | 20.10     | 20.20   | 20.34   | 21.50   |         |
|       |           | 25         | 25      | 20.28     | 20.11   | 20.35   | 21.50   |         |
|       |           | 50         | 0       | 20.15     | 20.34   | 20.30   | 21.50   |         |
|       | 16QAM     | 1          | 0       | 20.31     | 20.60   | 20.13   | 21.50   |         |
|       |           | 1          | 25      | 20.32     | 20.61   | 20.27   | 21.50   |         |
|       |           | 1          | 49      | 20.44     | 20.33   | 20.52   | 21.50   |         |
|       |           | 25         | 0       | 19.17     | 19.27   | 19.30   | 20.50   |         |
|       |           | 25         | 13      | 19.33     | 19.27   | 19.26   | 20.50   |         |
|       |           | 25         | 25      | 19.28     | 19.18   | 19.27   | 20.50   |         |
|       |           | 50         | 0       | 19.24     | 19.32   | 19.23   | 20.50   |         |
|       | 64QAM     | 1          | 0       | 19.43     | 19.25   | 19.06   | 20.50   |         |
|       |           | 1          | 25      | 19.28     | 19.33   | 19.37   | 20.50   |         |
|       |           | 1          | 49      | 19.58     | 19.28   | 19.56   | 20.50   |         |
|       |           | 25         | 0       | 18.10     | 18.27   | 18.18   | 19.50   |         |
|       |           | 25         | 13      | 18.29     | 18.31   | 18.28   | 19.50   |         |
|       |           | 25         | 25      | 18.42     | 18.24   | 18.26   | 19.50   |         |
|       |           | 50         | 0       | 18.17     | 18.37   | 18.29   | 19.50   |         |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 18675   | 18900   | 19125   |         |       |
| 15MHz     | 256QAM     | 1       | 0         | 16.16   | 16.36   | 16.18   | 17.50   |       |
|           |            | 1       | 25        | 16.33   | 16.43   | 16.19   | 17.50   |       |
|           |            | 1       | 49        | 16.43   | 16.27   | 16.54   | 17.50   |       |
|           |            | 25      | 0         | 16.11   | 16.29   | 16.20   | 17.50   |       |
|           |            | 25      | 13        | 16.25   | 16.29   | 16.27   | 17.50   |       |
|           |            | 25      | 25        | 16.33   | 16.18   | 16.24   | 17.50   |       |
|           |            | 50      | 0         | 16.24   | 16.33   | 16.20   | 17.50   |       |
|           | 15MHz      | QPSK    | 1         | 0       | 21.19   | 21.28   | 21.25   | 22.50 |
|           |            |         | 1         | 38      | 21.37   | 21.17   | 21.03   | 22.50 |
|           |            |         | 1         | 74      | 21.33   | 21.20   | 21.31   | 22.50 |
|           |            |         | 36        | 0       | 20.13   | 20.33   | 20.10   | 21.50 |
|           |            |         | 36        | 18      | 20.11   | 20.23   | 20.20   | 21.50 |
|           |            |         | 36        | 39      | 20.25   | 20.06   | 20.21   | 21.50 |
|           |            |         | 75        | 0       | 20.28   | 20.24   | 20.34   | 21.50 |
|           |            | 16QAM   | 1         | 0       | 20.29   | 20.57   | 20.24   | 21.50 |
|           |            |         | 1         | 38      | 20.31   | 20.61   | 20.28   | 21.50 |
|           |            |         | 1         | 74      | 20.58   | 20.22   | 20.57   | 21.50 |
|           |            |         | 36        | 0       | 19.22   | 19.36   | 19.27   | 20.50 |
|           |            |         | 36        | 18      | 19.41   | 19.21   | 19.34   | 20.50 |
|           |            |         | 36        | 39      | 19.35   | 19.23   | 19.32   | 20.50 |
|           |            |         | 75        | 0       | 19.23   | 19.20   | 19.23   | 20.50 |
| 64QAM     |            | 1       | 0         | 19.35   | 19.21   | 19.18   | 20.50   |       |
|           |            | 1       | 38        | 19.27   | 19.50   | 19.17   | 20.50   |       |
|           |            | 1       | 74        | 19.55   | 19.23   | 19.54   | 20.50   |       |
|           |            | 36      | 0         | 18.21   | 18.27   | 18.23   | 19.50   |       |
|           |            | 36      | 18        | 18.33   | 18.24   | 18.19   | 19.50   |       |
|           |            | 36      | 39        | 18.36   | 18.17   | 18.25   | 19.50   |       |
|           |            | 75      | 0         | 18.24   | 18.22   | 18.29   | 19.50   |       |
| 256QAM    | 1          | 0       | 16.25     | 16.35   | 16.16   | 17.50   |         |       |
|           | 1          | 38      | 16.38     | 16.42   | 16.36   | 17.50   |         |       |
|           | 1          | 74      | 16.32     | 16.23   | 16.54   | 17.50   |         |       |
|           | 36         | 0       | 16.19     | 16.33   | 16.23   | 17.50   |         |       |
|           | 36         | 18      | 16.17     | 16.33   | 16.21   | 17.50   |         |       |
|           | 36         | 39      | 16.21     | 16.24   | 16.16   | 17.50   |         |       |
|           | 75         | 0       | 16.30     | 16.19   | 16.26   | 17.50   |         |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|           |            |         |           | 18700   | 18900   | 19100   |         |       |



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|       |        |     |    |       |       |       |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 21.20 | 21.20 | 21.30 | 22.50 |
|       |        | 1   | 50 | 21.34 | 21.25 | 21.10 | 22.50 |
|       |        | 1   | 99 | 21.40 | 21.14 | 21.31 | 22.50 |
|       |        | 50  | 0  | 20.12 | 20.25 | 20.14 | 21.50 |
|       |        | 50  | 25 | 20.12 | 20.27 | 20.25 | 21.50 |
|       |        | 50  | 50 | 20.18 | 20.16 | 20.29 | 21.50 |
|       |        | 100 | 0  | 20.24 | 20.27 | 20.28 | 21.50 |
|       | 16QAM  | 1   | 0  | 20.35 | 20.59 | 20.23 | 21.50 |
|       |        | 1   | 50 | 20.38 | 20.62 | 20.25 | 21.50 |
|       |        | 1   | 99 | 20.53 | 20.30 | 20.54 | 21.50 |
|       |        | 50  | 0  | 19.12 | 19.26 | 19.21 | 20.50 |
|       |        | 50  | 25 | 19.34 | 19.25 | 19.25 | 20.50 |
|       |        | 50  | 50 | 19.28 | 19.27 | 19.32 | 20.50 |
|       |        | 100 | 0  | 19.19 | 19.26 | 19.23 | 20.50 |
|       | 64QAM  | 1   | 0  | 19.34 | 19.29 | 19.12 | 20.50 |
|       |        | 1   | 50 | 19.30 | 19.43 | 19.27 | 20.50 |
|       |        | 1   | 99 | 19.53 | 19.29 | 19.50 | 20.50 |
|       |        | 50  | 0  | 18.15 | 18.24 | 18.21 | 19.50 |
|       |        | 50  | 25 | 18.25 | 18.24 | 18.24 | 19.50 |
|       |        | 50  | 50 | 18.33 | 18.22 | 18.30 | 19.50 |
|       |        | 100 | 0  | 18.23 | 18.32 | 18.24 | 19.50 |
|       | 256QAM | 1   | 0  | 16.22 | 16.42 | 16.26 | 17.50 |
|       |        | 1   | 50 | 16.29 | 16.39 | 16.27 | 17.50 |
|       |        | 1   | 99 | 16.41 | 16.27 | 16.47 | 17.50 |
|       |        | 50  | 0  | 16.12 | 16.30 | 16.17 | 17.50 |
|       |        | 50  | 25 | 16.23 | 16.24 | 16.24 | 17.50 |
|       |        | 50  | 50 | 16.29 | 16.27 | 16.15 | 17.50 |
|       |        | 100 | 0  | 16.25 | 16.26 | 16.22 | 17.50 |



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| LTE Band 2 Eci3 |            |         |           | Conducted Power(dBm) |         |         |         |       |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|-------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |       |
|                 |            |         |           | 18607                | 18900   | 19193   |         |       |
| 1.4MHz          | QPSK       | 1       | 0         | 13.29                | 13.32   | 13.13   | 14.50   |       |
|                 |            | 1       | 2         | 13.34                | 13.25   | 13.18   | 14.50   |       |
|                 |            | 1       | 5         | 13.31                | 13.12   | 13.35   | 14.50   |       |
|                 |            | 3       | 0         | 13.15                | 13.30   | 13.17   | 14.50   |       |
|                 |            | 3       | 2         | 13.31                | 13.23   | 13.16   | 14.50   |       |
|                 |            | 3       | 3         | 13.24                | 13.20   | 13.29   | 14.50   |       |
|                 | 16QAM      | 6       | 0         | 13.16                | 13.20   | 13.23   | 14.50   |       |
|                 |            | 1       | 0         | 13.37                | 13.25   | 13.14   | 14.50   |       |
|                 |            | 1       | 2         | 13.39                | 13.50   | 13.33   | 14.50   |       |
|                 |            | 1       | 5         | 13.41                | 13.27   | 13.45   | 14.50   |       |
|                 |            | 3       | 0         | 13.12                | 13.24   | 13.11   | 14.50   |       |
|                 |            | 3       | 2         | 13.29                | 13.21   | 13.26   | 14.50   |       |
|                 | 64QAM      | 3       | 3         | 13.28                | 13.25   | 13.35   | 14.50   |       |
|                 |            | 6       | 0         | 13.18                | 13.20   | 13.18   | 14.50   |       |
|                 |            | 1       | 0         | 13.25                | 13.27   | 13.13   | 14.50   |       |
|                 |            | 1       | 2         | 13.21                | 13.24   | 13.25   | 14.50   |       |
|                 |            | 1       | 5         | 13.40                | 13.16   | 13.37   | 14.50   |       |
|                 |            | 3       | 0         | 13.16                | 13.31   | 13.12   | 14.50   |       |
|                 | 256QAM     | 3       | 2         | 13.21                | 13.22   | 13.27   | 14.50   |       |
|                 |            | 3       | 3         | 13.22                | 13.23   | 13.24   | 14.50   |       |
|                 |            | 6       | 0         | 13.24                | 13.31   | 13.19   | 14.50   |       |
|                 |            | 1       | 0         | 13.27                | 13.32   | 13.24   | 14.50   |       |
|                 |            | 1       | 2         | 13.45                | 13.23   | 13.26   | 14.50   |       |
|                 |            | 1       | 5         | 13.41                | 13.30   | 13.38   | 14.50   |       |
|                 | 3MHz       | QPSK    | 3         | 0                    | 13.13   | 13.29   | 13.12   | 14.50 |
|                 |            |         | 3         | 2                    | 13.17   | 13.24   | 13.22   | 14.50 |
|                 |            |         | 3         | 3                    | 13.24   | 13.22   | 13.30   | 14.50 |
|                 |            |         | 6         | 0                    | 13.19   | 13.24   | 13.24   | 14.50 |
|                 |            |         | 1         | 0                    | 13.38   | 13.20   | 13.03   | 14.50 |
|                 | 3MHz       | QPSK    | 1         | 7                    | 13.38   | 13.22   | 13.17   | 14.50 |
| 1               |            |         | 14        | 13.23                | 13.12   | 13.26   | 14.50   |       |
| 8               |            |         | 0         | 13.01                | 13.25   | 13.09   | 14.50   |       |
| 8               |            |         | 4         | 13.15                | 13.22   | 13.24   | 14.50   |       |
| 8               |            |         | 4         | 13.15                | 13.22   | 13.24   | 14.50   |       |



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|       |        |           |            |         |           |         |         |
|-------|--------|-----------|------------|---------|-----------|---------|---------|
|       |        | 8         | 7          | 13.33   | 13.31     | 13.28   | 14.50   |
|       |        | 15        | 0          | 13.25   | 13.24     | 13.20   | 14.50   |
|       | 16QAM  | 1         | 0          | 13.37   | 13.14     | 13.19   | 14.50   |
|       |        | 1         | 7          | 13.38   | 13.44     | 13.37   | 14.50   |
|       |        | 1         | 14         | 13.42   | 13.10     | 13.41   | 14.50   |
|       |        | 8         | 0          | 13.09   | 13.26     | 13.10   | 14.50   |
|       |        | 8         | 4          | 13.28   | 13.30     | 13.19   | 14.50   |
|       |        | 8         | 7          | 13.14   | 13.22     | 13.17   | 14.50   |
|       |        | 15        | 0          | 13.15   | 13.20     | 13.22   | 14.50   |
|       |        | 64QAM     | 1          | 0       | 13.26     | 13.18   | 13.09   |
|       | 1      |           | 7          | 13.21   | 13.24     | 13.23   | 14.50   |
|       | 1      |           | 14         | 13.32   | 13.05     | 13.42   | 14.50   |
|       | 8      |           | 0          | 13.13   | 13.31     | 13.07   | 14.50   |
|       | 8      |           | 4          | 13.11   | 13.14     | 13.19   | 14.50   |
|       | 8      |           | 7          | 13.17   | 13.24     | 13.17   | 14.50   |
|       | 15     |           | 0          | 13.18   | 13.29     | 13.08   | 14.50   |
|       | 256QAM |           | 1          | 0       | 13.22     | 13.27   | 13.26   |
|       |        | 1         | 7          | 13.45   | 13.19     | 13.36   | 14.50   |
|       |        | 1         | 14         | 13.34   | 13.17     | 13.36   | 14.50   |
|       |        | 8         | 0          | 13.12   | 13.20     | 13.07   | 14.50   |
|       |        | 8         | 4          | 13.26   | 13.16     | 13.20   | 14.50   |
|       |        | 8         | 7          | 13.29   | 13.28     | 13.29   | 14.50   |
|       |        | 15        | 0          | 13.04   | 13.23     | 13.27   | 14.50   |
|       |        | Bandwidth | Modulation | RB size | RB offset | Channel | Channel |
| 18625 | 18900  |           |            |         |           | 19175   |         |
| 5MHz  | QPSK   | 1         | 0          | 13.21   | 13.15     | 13.14   | 14.50   |
|       |        | 1         | 13         | 13.22   | 13.37     | 13.06   | 14.50   |
|       |        | 1         | 24         | 13.21   | 13.16     | 13.21   | 14.50   |
|       |        | 12        | 0          | 13.01   | 13.18     | 13.19   | 14.50   |
|       |        | 12        | 6          | 13.21   | 13.32     | 13.07   | 14.50   |
|       |        | 12        | 13         | 13.24   | 13.23     | 13.18   | 14.50   |
|       |        | 25        | 0          | 13.23   | 13.28     | 13.22   | 14.50   |
|       |        | 16QAM     | 1          | 0       | 13.41     | 13.27   | 13.11   |
|       | 1      |           | 13         | 13.30   | 13.43     | 13.35   | 14.50   |
|       | 1      |           | 24         | 13.36   | 13.27     | 13.43   | 14.50   |
|       | 12     |           | 0          | 13.10   | 13.31     | 13.08   | 14.50   |
|       | 12     |           | 6          | 13.30   | 13.18     | 13.08   | 14.50   |
|       | 12     |           | 13         | 13.25   | 13.28     | 13.34   | 14.50   |
|       | 25     |           | 0          | 13.11   | 13.24     | 13.27   | 14.50   |



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|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  | 64QAM             | 1              | 0                | 13.24          | 13.34          | 13.10          | 14.50          |
|                  |                   | 1              | 13               | 13.16          | 13.14          | 13.17          | 14.50          |
|                  |                   | 1              | 24               | 13.34          | 13.22          | 13.40          | 14.50          |
|                  |                   | 12             | 0                | 13.04          | 13.26          | 13.03          | 14.50          |
|                  |                   | 12             | 6                | 13.28          | 13.29          | 13.28          | 14.50          |
|                  |                   | 12             | 13               | 13.32          | 13.16          | 13.27          | 14.50          |
|                  |                   | 25             | 0                | 13.07          | 13.28          | 13.18          | 14.50          |
|                  | 256QAM            | 1              | 0                | 13.13          | 13.27          | 13.15          | 14.50          |
|                  |                   | 1              | 13               | 13.38          | 13.22          | 13.33          | 14.50          |
|                  |                   | 1              | 24               | 13.42          | 13.22          | 13.33          | 14.50          |
|                  |                   | 12             | 0                | 13.10          | 13.14          | 13.19          | 14.50          |
|                  |                   | 12             | 6                | 13.23          | 13.11          | 13.24          | 14.50          |
|                  |                   | 12             | 13               | 13.16          | 13.13          | 13.24          | 14.50          |
|                  |                   | 25             | 0                | 13.17          | 13.24          | 13.14          | 14.50          |
| <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> |
|                  |                   |                |                  | 18650          | 18900          | 19150          |                |
| <b>10MHz</b>     | QPSK              | 1              | 0                | 13.27          | 13.32          | 13.14          | 14.50          |
|                  |                   | 1              | 25               | 13.40          | 13.24          | 13.13          | 14.50          |
|                  |                   | 1              | 49               | 13.15          | 13.11          | 13.26          | 14.50          |
|                  |                   | 25             | 0                | 13.15          | 13.28          | 13.04          | 14.50          |
|                  |                   | 25             | 13               | 13.24          | 13.25          | 13.24          | 14.50          |
|                  |                   | 25             | 25               | 13.16          | 13.18          | 13.28          | 14.50          |
|                  |                   | 50             | 0                | 13.19          | 13.13          | 13.25          | 14.50          |
|                  | 16QAM             | 1              | 0                | 13.47          | 13.20          | 13.22          | 14.50          |
|                  |                   | 1              | 25               | 13.30          | 13.45          | 13.30          | 14.50          |
|                  |                   | 1              | 49               | 13.42          | 13.23          | 13.49          | 14.50          |
|                  |                   | 25             | 0                | 13.10          | 13.33          | 13.05          | 14.50          |
|                  |                   | 25             | 13               | 13.25          | 13.28          | 13.23          | 14.50          |
|                  |                   | 25             | 25               | 13.17          | 13.22          | 13.21          | 14.50          |
|                  |                   | 50             | 0                | 13.19          | 13.10          | 13.25          | 14.50          |
|                  | 64QAM             | 1              | 0                | 13.28          | 13.24          | 13.15          | 14.50          |
|                  |                   | 1              | 25               | 13.18          | 13.21          | 13.24          | 14.50          |
|                  |                   | 1              | 49               | 13.36          | 13.13          | 13.31          | 14.50          |
|                  |                   | 25             | 0                | 13.02          | 13.14          | 13.06          | 14.50          |
|                  |                   | 25             | 13               | 13.14          | 13.14          | 13.31          | 14.50          |
|                  |                   | 25             | 25               | 13.30          | 13.20          | 13.27          | 14.50          |
|                  |                   | 50             | 0                | 13.14          | 13.17          | 13.10          | 14.50          |
|                  | 256QAM            | 1              | 0                | 13.21          | 13.40          | 13.25          | 14.50          |
|                  |                   | 1              | 25               | 13.45          | 13.22          | 13.23          | 14.50          |



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|           |            | 1       | 49        | 13.38   | 13.14   | 13.33   | 14.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 13.03   | 13.18   | 13.18   | 14.50   |
|           |            | 25      | 13        | 13.18   | 13.22   | 13.23   | 14.50   |
|           |            | 25      | 25        | 13.11   | 13.09   | 13.31   | 14.50   |
|           |            | 50      | 0         | 13.04   | 13.26   | 13.23   | 14.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 13.39   | 13.34   | 13.03   | 14.50   |
|           |            | 1       | 38        | 13.28   | 13.29   | 13.07   | 14.50   |
|           |            | 1       | 74        | 13.19   | 13.17   | 13.27   | 14.50   |
|           |            | 36      | 0         | 13.10   | 13.28   | 13.03   | 14.50   |
|           |            | 36      | 18        | 13.30   | 13.29   | 13.17   | 14.50   |
|           |            | 36      | 39        | 13.33   | 13.21   | 13.31   | 14.50   |
|           |            | 75      | 0         | 13.11   | 13.16   | 13.11   | 14.50   |
|           | 16QAM      | 1       | 0         | 13.45   | 13.29   | 13.06   | 14.50   |
|           |            | 1       | 38        | 13.38   | 13.51   | 13.42   | 14.50   |
|           |            | 1       | 74        | 13.51   | 13.11   | 13.46   | 14.50   |
|           |            | 36      | 0         | 13.04   | 13.15   | 13.03   | 14.50   |
|           |            | 36      | 18        | 13.20   | 13.28   | 13.25   | 14.50   |
|           |            | 36      | 39        | 13.30   | 13.10   | 13.25   | 14.50   |
|           |            | 75      | 0         | 13.20   | 13.21   | 13.29   | 14.50   |
|           | 64QAM      | 1       | 0         | 13.11   | 13.28   | 13.14   | 14.50   |
|           |            | 1       | 38        | 13.27   | 13.18   | 13.23   | 14.50   |
|           |            | 1       | 74        | 13.23   | 13.11   | 13.32   | 14.50   |
|           |            | 36      | 0         | 13.21   | 13.13   | 13.03   | 14.50   |
|           |            | 36      | 18        | 13.31   | 13.32   | 13.18   | 14.50   |
|           |            | 36      | 39        | 13.26   | 13.11   | 13.22   | 14.50   |
|           |            | 75      | 0         | 13.07   | 13.27   | 13.15   | 14.50   |
|           | 256QAM     | 1       | 0         | 13.14   | 13.27   | 13.15   | 14.50   |
|           |            | 1       | 38        | 13.43   | 13.33   | 13.22   | 14.50   |
|           |            | 1       | 74        | 13.34   | 13.25   | 13.24   | 14.50   |
|           |            | 36      | 0         | 13.12   | 13.26   | 13.15   | 14.50   |
|           |            | 36      | 18        | 13.10   | 13.20   | 13.17   | 14.50   |
|           |            | 36      | 39        | 13.11   | 13.17   | 13.37   | 14.50   |
|           |            | 75      | 0         | 13.23   | 13.17   | 13.16   | 14.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 13.23   | 13.24   | 13.09   | 14.50   |
|           |            | 1       | 50        | 13.30   | 13.27   | 13.09   | 14.50   |



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|    |        |     |       |       |       |       |       |
|----|--------|-----|-------|-------|-------|-------|-------|
|    |        | 1   | 99    | 13.31 | 13.09 | 13.25 | 14.50 |
|    |        | 50  | 0     | 13.05 | 13.23 | 13.13 | 14.50 |
|    |        | 50  | 25    | 13.23 | 13.25 | 13.17 | 14.50 |
|    |        | 50  | 50    | 13.23 | 13.24 | 13.27 | 14.50 |
|    |        | 100 | 0     | 13.15 | 13.21 | 13.22 | 14.50 |
|    | 16QAM  | 1   | 0     | 13.39 | 13.21 | 13.13 | 14.50 |
|    |        | 1   | 50    | 13.38 | 13.41 | 13.34 | 14.50 |
|    |        | 1   | 99    | 13.41 | 13.19 | 13.40 | 14.50 |
|    |        | 50  | 0     | 13.08 | 13.23 | 13.12 | 14.50 |
|    |        | 50  | 25    | 13.21 | 13.22 | 13.17 | 14.50 |
|    |        | 50  | 50    | 13.21 | 13.20 | 13.27 | 14.50 |
|    | 64QAM  | 100 | 0     | 13.15 | 13.18 | 13.19 | 14.50 |
|    |        | 1   | 0     | 13.18 | 13.27 | 13.09 | 14.50 |
|    |        | 1   | 50    | 13.23 | 13.22 | 13.24 | 14.50 |
|    |        | 1   | 99    | 13.31 | 13.12 | 13.34 | 14.50 |
|    |        | 50  | 0     | 13.07 | 13.23 | 13.12 | 14.50 |
|    |        | 50  | 25    | 13.21 | 13.22 | 13.21 | 14.50 |
|    |        | 50  | 50    | 13.22 | 13.20 | 13.25 | 14.50 |
|    | 256QAM | 100 | 0     | 13.14 | 13.23 | 13.17 | 14.50 |
|    |        | 1   | 0     | 13.18 | 13.32 | 13.17 | 14.50 |
|    |        | 1   | 50    | 13.35 | 13.24 | 13.28 | 14.50 |
| 1  |        | 99  | 13.36 | 13.20 | 13.30 | 14.50 |       |
| 50 |        | 0   | 13.03 | 13.20 | 13.14 | 14.50 |       |
| 50 |        | 25  | 13.17 | 13.20 | 13.16 | 14.50 |       |
| 50 |        | 50  | 13.21 | 13.18 | 13.27 | 14.50 |       |
|    |        | 100 | 0     | 13.14 | 13.20 | 13.17 | 14.50 |



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| LTE Band 2 Eci2 |            |            |           | Conducted Power(dBm) |         |         |         |         |
|-----------------|------------|------------|-----------|----------------------|---------|---------|---------|---------|
| Bandwidth       | Modulation | RB size    | RB offset | Channel              | Channel | Channel | Tune up |         |
|                 |            |            |           | 18607                | 18900   | 19193   |         |         |
| 1.4MHz          | QPSK       | 1          | 0         | 11.78                | 11.80   | 11.67   | 13.00   |         |
|                 |            | 1          | 2         | 11.95                | 11.93   | 11.76   | 13.00   |         |
|                 |            | 1          | 5         | 11.89                | 11.79   | 11.97   | 13.00   |         |
|                 |            | 3          | 0         | 11.71                | 11.82   | 11.76   | 13.00   |         |
|                 |            | 3          | 2         | 11.88                | 11.91   | 11.86   | 13.00   |         |
|                 |            | 3          | 3         | 11.88                | 11.93   | 11.85   | 13.00   |         |
|                 |            | 6          | 0         | 11.76                | 11.86   | 11.83   | 13.00   |         |
|                 | 16QAM      | 1          | 0         | 12.13                | 11.97   | 11.72   | 13.00   |         |
|                 |            | 1          | 2         | 12.14                | 12.02   | 11.95   | 13.00   |         |
|                 |            | 1          | 5         | 12.12                | 11.84   | 12.01   | 13.00   |         |
|                 |            | 3          | 0         | 11.72                | 11.90   | 11.79   | 13.00   |         |
|                 |            | 3          | 2         | 11.83                | 11.82   | 11.86   | 13.00   |         |
|                 |            | 3          | 3         | 11.92                | 11.90   | 11.85   | 13.00   |         |
|                 |            | 6          | 0         | 11.79                | 11.92   | 11.85   | 13.00   |         |
|                 | 64QAM      | 1          | 0         | 11.95                | 11.96   | 11.75   | 13.00   |         |
|                 |            | 1          | 2         | 11.99                | 12.00   | 11.92   | 13.00   |         |
|                 |            | 1          | 5         | 11.95                | 11.75   | 12.01   | 13.00   |         |
|                 |            | 3          | 0         | 11.77                | 11.89   | 11.76   | 13.00   |         |
|                 |            | 3          | 2         | 11.87                | 11.89   | 11.87   | 13.00   |         |
|                 |            | 3          | 3         | 11.90                | 11.88   | 11.94   | 13.00   |         |
|                 |            | 6          | 0         | 11.87                | 11.92   | 11.83   | 13.00   |         |
|                 | 256QAM     | 1          | 0         | 11.95                | 11.91   | 11.81   | 13.00   |         |
|                 |            | 1          | 2         | 11.79                | 11.96   | 11.90   | 13.00   |         |
|                 |            | 1          | 5         | 12.03                | 11.76   | 11.96   | 13.00   |         |
|                 |            | 3          | 0         | 11.77                | 11.97   | 11.74   | 13.00   |         |
|                 |            | 3          | 2         | 11.92                | 11.85   | 11.90   | 13.00   |         |
|                 |            | 3          | 3         | 11.92                | 11.81   | 11.85   | 13.00   |         |
|                 |            | 6          | 0         | 11.86                | 11.84   | 11.78   | 13.00   |         |
|                 | Bandwidth  | Modulation | RB size   | RB offset            | Channel | Channel | Channel | Tune up |
|                 | 3MHz       | QPSK       | 1         | 0                    | 11.67   | 11.79   | 11.59   | 13.00   |
|                 |            |            | 1         | 7                    | 11.90   | 11.77   | 11.70   | 13.00   |
|                 |            |            | 1         | 14                   | 11.78   | 11.69   | 11.81   | 13.00   |
|                 |            |            | 8         | 0                    | 11.73   | 11.94   | 11.67   | 13.00   |
|                 |            |            | 8         | 4                    | 11.79   | 11.75   | 11.76   | 13.00   |
|                 |            |            |           |                      |         |         | 18615   | 18900   |



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|       |        |           |            |         |           |         |         |         |
|-------|--------|-----------|------------|---------|-----------|---------|---------|---------|
|       |        | 8         | 7          | 11.79   | 11.91     | 11.82   | 13.00   |         |
|       |        | 15        | 0          | 11.72   | 11.92     | 11.84   | 13.00   |         |
|       | 16QAM  | 1         | 0          | 11.96   | 11.96     | 11.83   | 13.00   |         |
|       |        | 1         | 7          | 12.12   | 11.87     | 11.95   | 13.00   |         |
|       |        | 1         | 14         | 12.05   | 11.84     | 11.91   | 13.00   |         |
|       |        | 8         | 0          | 11.58   | 11.77     | 11.83   | 13.00   |         |
|       |        | 8         | 4          | 11.94   | 11.83     | 11.91   | 13.00   |         |
|       |        | 8         | 7          | 11.86   | 11.88     | 11.86   | 13.00   |         |
|       |        | 15        | 0          | 11.70   | 11.89     | 11.80   | 13.00   |         |
|       |        | 64QAM     | 1          | 0       | 11.98     | 12.00   | 11.75   | 13.00   |
|       | 1      |           | 7          | 11.98   | 11.91     | 11.84   | 13.00   |         |
|       | 1      |           | 14         | 11.95   | 11.77     | 11.96   | 13.00   |         |
|       | 8      |           | 0          | 11.60   | 11.76     | 11.83   | 13.00   |         |
|       | 8      |           | 4          | 11.75   | 11.88     | 11.78   | 13.00   |         |
|       | 8      |           | 7          | 11.87   | 11.85     | 11.88   | 13.00   |         |
|       | 15     |           | 0          | 11.77   | 11.87     | 11.85   | 13.00   |         |
|       | 256QAM |           | 1          | 0       | 11.87     | 11.85   | 11.86   | 13.00   |
|       |        | 1         | 7          | 11.72   | 11.88     | 11.96   | 13.00   |         |
|       |        | 1         | 14         | 12.07   | 11.76     | 11.96   | 13.00   |         |
|       |        | 8         | 0          | 11.74   | 11.89     | 11.64   | 13.00   |         |
|       |        | 8         | 4          | 11.82   | 11.81     | 11.92   | 13.00   |         |
|       |        | 8         | 7          | 11.83   | 11.82     | 11.93   | 13.00   |         |
|       |        | 15        | 0          | 11.82   | 11.81     | 11.75   | 13.00   |         |
|       |        | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel |
|       | 18625  |           |            |         |           | 18900   | 19175   |         |
|       | 5MHz   | QPSK      | 1          | 0       | 11.80     | 11.75   | 11.58   | 13.00   |
|       |        |           | 1          | 13      | 11.92     | 11.80   | 11.83   | 13.00   |
|       |        |           | 1          | 24      | 11.82     | 11.59   | 11.90   | 13.00   |
| 12    |        |           | 0          | 11.82   | 11.89     | 11.72   | 13.00   |         |
| 12    |        |           | 6          | 11.82   | 11.82     | 11.93   | 13.00   |         |
| 12    |        |           | 13         | 11.85   | 11.81     | 11.89   | 13.00   |         |
| 25    |        |           | 0          | 11.82   | 11.85     | 11.81   | 13.00   |         |
| 16QAM |        |           | 1          | 0       | 12.13     | 11.78   | 11.72   | 13.00   |
|       |        | 1         | 13         | 12.25   | 11.89     | 11.92   | 13.00   |         |
|       |        | 1         | 24         | 12.17   | 11.81     | 11.93   | 13.00   |         |
|       |        | 12        | 0          | 11.74   | 11.75     | 11.73   | 13.00   |         |
|       |        | 12        | 6          | 11.90   | 11.73     | 11.83   | 13.00   |         |
|       |        | 12        | 13         | 11.77   | 11.90     | 11.81   | 13.00   |         |
|       |        | 25        | 0          | 11.71   | 11.79     | 11.86   | 13.00   |         |



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|           | 64QAM      | 1       | 0         | 11.83   | 11.84   | 11.60   | 13.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 12.08   | 11.90   | 11.92   | 13.00   |
|           |            | 1       | 24        | 11.89   | 11.67   | 11.99   | 13.00   |
|           |            | 12      | 0         | 11.79   | 11.81   | 11.64   | 13.00   |
|           |            | 12      | 6         | 11.85   | 11.87   | 11.80   | 13.00   |
|           |            | 12      | 13        | 11.80   | 11.86   | 11.81   | 13.00   |
|           |            | 25      | 0         | 11.72   | 11.93   | 11.77   | 13.00   |
|           | 256QAM     | 1       | 0         | 11.79   | 11.88   | 11.75   | 13.00   |
|           |            | 1       | 13        | 11.71   | 11.95   | 11.97   | 13.00   |
|           |            | 1       | 24        | 12.02   | 11.66   | 11.82   | 13.00   |
|           |            | 12      | 0         | 11.73   | 11.81   | 11.65   | 13.00   |
|           |            | 12      | 6         | 11.85   | 11.73   | 11.88   | 13.00   |
|           |            | 12      | 13        | 11.75   | 11.70   | 11.81   | 13.00   |
|           |            | 25      | 0         | 11.75   | 11.77   | 11.70   | 13.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 11.67   | 11.89   | 11.64   | 13.00   |
|           |            | 1       | 25        | 11.88   | 11.79   | 11.80   | 13.00   |
|           |            | 1       | 49        | 11.86   | 11.75   | 11.77   | 13.00   |
|           |            | 25      | 0         | 11.80   | 11.76   | 11.70   | 13.00   |
|           |            | 25      | 13        | 11.81   | 11.79   | 11.76   | 13.00   |
|           |            | 25      | 25        | 11.73   | 11.76   | 11.77   | 13.00   |
|           |            | 50      | 0         | 11.73   | 11.91   | 11.75   | 13.00   |
|           | 16QAM      | 1       | 0         | 12.03   | 11.79   | 11.77   | 13.00   |
|           |            | 1       | 25        | 12.17   | 11.98   | 11.82   | 13.00   |
|           |            | 1       | 49        | 12.14   | 11.92   | 11.89   | 13.00   |
|           |            | 25      | 0         | 11.69   | 11.76   | 11.78   | 13.00   |
|           |            | 25      | 13        | 11.92   | 11.92   | 11.74   | 13.00   |
|           |            | 25      | 25        | 11.91   | 11.83   | 11.90   | 13.00   |
|           |            | 50      | 0         | 11.83   | 11.91   | 11.93   | 13.00   |
|           | 64QAM      | 1       | 0         | 11.83   | 11.91   | 11.66   | 13.00   |
|           |            | 1       | 25        | 11.97   | 12.03   | 11.77   | 13.00   |
|           |            | 1       | 49        | 11.94   | 11.69   | 11.86   | 13.00   |
|           |            | 25      | 0         | 11.64   | 11.93   | 11.76   | 13.00   |
|           |            | 25      | 13        | 11.86   | 11.91   | 11.90   | 13.00   |
|           |            | 25      | 25        | 11.89   | 11.83   | 11.93   | 13.00   |
|           |            | 50      | 0         | 11.78   | 11.79   | 11.72   | 13.00   |
|           | 256QAM     | 1       | 0         | 11.90   | 11.89   | 11.74   | 13.00   |
|           |            | 1       | 25        | 11.77   | 11.98   | 11.88   | 13.00   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 18675   | 18900   | 19125   |         |       |
| 15MHz     | QPSK       | 1       | 49        | 11.95   | 11.74   | 12.00   | 13.00   |       |
|           |            | 25      | 0         | 11.74   | 11.82   | 11.74   | 13.00   |       |
|           |            | 25      | 13        | 11.94   | 11.82   | 11.76   | 13.00   |       |
|           |            | 25      | 25        | 11.83   | 11.83   | 11.90   | 13.00   |       |
|           |            | 50      | 0         | 11.75   | 11.75   | 11.83   | 13.00   |       |
|           | 16QAM      | 1       | 0         | 12.11   | 11.82   | 11.72   | 13.00   |       |
|           |            | 1       | 38        | 12.13   | 11.94   | 11.86   | 13.00   |       |
|           |            | 1       | 74        | 12.08   | 11.81   | 11.89   | 13.00   |       |
|           |            | 36      | 0         | 11.71   | 11.89   | 11.79   | 13.00   |       |
|           |            | 36      | 18        | 11.77   | 11.92   | 11.93   | 13.00   |       |
|           |            | 36      | 39        | 11.81   | 11.83   | 11.91   | 13.00   |       |
|           | 64QAM      | 1       | 0         | 11.80   | 11.97   | 11.71   | 13.00   |       |
|           |            | 1       | 38        | 11.88   | 11.97   | 11.88   | 13.00   |       |
|           |            | 1       | 74        | 11.84   | 11.82   | 11.86   | 13.00   |       |
|           |            | 36      | 0         | 11.79   | 11.81   | 11.65   | 13.00   |       |
|           |            | 36      | 18        | 11.90   | 11.75   | 11.81   | 13.00   |       |
|           |            | 36      | 39        | 11.91   | 11.84   | 11.95   | 13.00   |       |
|           | 256QAM     | 1       | 0         | 11.82   | 11.90   | 11.75   | 13.00   |       |
|           |            | 1       | 38        | 11.73   | 11.86   | 11.87   | 13.00   |       |
|           |            | 1       | 74        | 12.03   | 11.77   | 11.99   | 13.00   |       |
|           |            | 36      | 0         | 11.67   | 11.84   | 11.75   | 13.00   |       |
|           |            | 36      | 18        | 11.92   | 11.75   | 11.80   | 13.00   |       |
|           |            | 36      | 39        | 11.91   | 11.85   | 11.75   | 13.00   |       |
|           | 20MHz      | QPSK    | 1         | 0       | 11.70   | 11.80   | 11.59   | 13.00 |
|           |            |         | 1         | 50      | 11.86   | 11.86   | 11.75   | 13.00 |



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|     |        |     |       |       |       |       |       |
|-----|--------|-----|-------|-------|-------|-------|-------|
|     |        | 1   | 99    | 11.88 | 11.69 | 11.91 | 13.00 |
|     |        | 50  | 0     | 11.73 | 11.84 | 11.77 | 13.00 |
|     |        | 50  | 25    | 11.85 | 11.85 | 11.84 | 13.00 |
|     |        | 50  | 50    | 11.86 | 11.84 | 11.90 | 13.00 |
|     |        | 100 | 0     | 11.77 | 11.83 | 11.83 | 13.00 |
|     | 16QAM  | 1   | 0     | 12.03 | 11.88 | 11.74 | 13.00 |
|     |        | 1   | 50    | 12.15 | 11.95 | 11.88 | 13.00 |
|     |        | 1   | 99    | 12.08 | 11.86 | 11.97 | 13.00 |
|     |        | 50  | 0     | 11.68 | 11.85 | 11.75 | 13.00 |
|     |        | 50  | 25    | 11.84 | 11.82 | 11.83 | 13.00 |
|     |        | 50  | 50    | 11.86 | 11.85 | 11.86 | 13.00 |
|     |        | 100 | 0     | 11.78 | 11.83 | 11.83 | 13.00 |
|     | 64QAM  | 1   | 0     | 11.88 | 11.91 | 11.70 | 13.00 |
|     |        | 1   | 50    | 11.98 | 11.98 | 11.84 | 13.00 |
|     |        | 1   | 99    | 11.94 | 11.73 | 11.93 | 13.00 |
|     |        | 50  | 0     | 11.69 | 11.84 | 11.74 | 13.00 |
|     |        | 50  | 25    | 11.85 | 11.85 | 11.82 | 13.00 |
|     |        | 50  | 50    | 11.87 | 11.85 | 11.87 | 13.00 |
|     |        | 100 | 0     | 11.78 | 11.84 | 11.80 | 13.00 |
|     | 256QAM | 1   | 0     | 11.88 | 11.93 | 11.76 | 13.00 |
|     |        | 1   | 50    | 11.72 | 11.94 | 11.91 | 13.00 |
| 1   |        | 99  | 11.98 | 11.75 | 11.91 | 13.00 |       |
| 50  |        | 0   | 11.69 | 11.89 | 11.74 | 13.00 |       |
| 50  |        | 25  | 11.85 | 11.81 | 11.83 | 13.00 |       |
| 50  |        | 50  | 11.83 | 11.80 | 11.84 | 13.00 |       |
| 100 |        | 0   | 11.76 | 11.84 | 11.79 | 13.00 |       |



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| LTE Band 2 Eci7 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 10.23                | 10.26   | 10.15   | 11.50   |
|                 |            | 1       | 2         | 10.38                | 10.28   | 10.28   | 11.50   |
|                 |            | 1       | 5         | 10.37                | 10.09   | 10.34   | 11.50   |
|                 |            | 3       | 0         | 10.30                | 10.36   | 10.31   | 11.50   |
|                 |            | 3       | 2         | 10.37                | 10.33   | 10.37   | 11.50   |
|                 |            | 3       | 3         | 10.41                | 10.44   | 10.40   | 11.50   |
|                 |            | 6       | 0         | 10.26                | 10.38   | 10.32   | 11.50   |
|                 | 16QAM      | 1       | 0         | 10.38                | 10.39   | 10.26   | 11.50   |
|                 |            | 1       | 2         | 10.50                | 10.57   | 10.33   | 11.50   |
|                 |            | 1       | 5         | 10.65                | 10.29   | 10.54   | 11.50   |
|                 |            | 3       | 0         | 10.22                | 10.41   | 10.29   | 11.50   |
|                 |            | 3       | 2         | 10.34                | 10.40   | 10.37   | 11.50   |
|                 |            | 3       | 3         | 10.29                | 10.43   | 10.38   | 11.50   |
|                 |            | 6       | 0         | 10.26                | 10.37   | 10.26   | 11.50   |
|                 | 64QAM      | 1       | 0         | 10.29                | 10.41   | 10.34   | 11.50   |
|                 |            | 1       | 2         | 10.39                | 10.52   | 10.35   | 11.50   |
|                 |            | 1       | 5         | 10.45                | 10.24   | 10.38   | 11.50   |
|                 |            | 3       | 0         | 10.29                | 10.40   | 10.26   | 11.50   |
|                 |            | 3       | 2         | 10.37                | 10.37   | 10.31   | 11.50   |
|                 |            | 3       | 3         | 10.38                | 10.39   | 10.42   | 11.50   |
|                 |            | 6       | 0         | 10.22                | 10.42   | 10.40   | 11.50   |
|                 | 256QAM     | 1       | 0         | 10.32                | 10.45   | 10.20   | 11.50   |
|                 |            | 1       | 2         | 10.50                | 10.50   | 10.42   | 11.50   |
|                 |            | 1       | 5         | 10.46                | 10.26   | 10.47   | 11.50   |
|                 |            | 3       | 0         | 10.23                | 10.39   | 10.22   | 11.50   |
|                 |            | 3       | 2         | 10.33                | 10.34   | 10.33   | 11.50   |
|                 |            | 3       | 3         | 10.35                | 10.36   | 10.41   | 11.50   |
|                 |            | 6       | 0         | 10.31                | 10.34   | 10.36   | 11.50   |
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 3MHz            | QPSK       | 1       | 0         | 10.22                | 10.32   | 10.10   | 11.50   |
|                 |            | 1       | 7         | 10.41                | 10.35   | 10.26   | 11.50   |
|                 |            | 1       | 14        | 10.33                | 10.13   | 10.41   | 11.50   |
|                 |            | 8       | 0         | 10.20                | 10.30   | 10.26   | 11.50   |
|                 |            | 8       | 4         | 10.41                | 10.35   | 10.30   | 11.50   |
|                 |            |         |           |                      |         | 18615   | 18900   |



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|       |           | 8          | 7       | 10.36     | 10.42   | 10.42   | 11.50   |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|
|       |           | 15         | 0       | 10.31     | 10.34   | 10.28   | 11.50   |         |
|       | 16QAM     | 1          | 0       | 10.42     | 10.50   | 10.32   | 11.50   |         |
|       |           | 1          | 7       | 10.49     | 10.45   | 10.45   | 11.50   |         |
|       |           | 1          | 14      | 10.62     | 10.33   | 10.55   | 11.50   |         |
|       |           | 8          | 0       | 10.24     | 10.42   | 10.28   | 11.50   |         |
|       |           | 8          | 4       | 10.30     | 10.39   | 10.32   | 11.50   |         |
|       |           | 8          | 7       | 10.33     | 10.43   | 10.42   | 11.50   |         |
|       |           | 15         | 0       | 10.26     | 10.35   | 10.37   | 11.50   |         |
|       |           | 64QAM      | 1       | 0         | 10.36   | 10.41   | 10.32   | 11.50   |
|       | 1         |            | 7       | 10.40     | 10.45   | 10.40   | 11.50   |         |
|       | 1         |            | 14      | 10.51     | 10.23   | 10.50   | 11.50   |         |
|       | 8         |            | 0       | 10.23     | 10.38   | 10.29   | 11.50   |         |
|       | 8         |            | 4       | 10.33     | 10.32   | 10.43   | 11.50   |         |
|       | 8         |            | 7       | 10.40     | 10.33   | 10.38   | 11.50   |         |
|       | 15        |            | 0       | 10.32     | 10.33   | 10.30   | 11.50   |         |
|       | 256QAM    | 1          | 0       | 10.35     | 10.44   | 10.25   | 11.50   |         |
|       |           | 1          | 7       | 10.53     | 10.51   | 10.50   | 11.50   |         |
|       |           | 1          | 14      | 10.49     | 10.26   | 10.50   | 11.50   |         |
|       |           | 8          | 0       | 10.20     | 10.40   | 10.22   | 11.50   |         |
|       |           | 8          | 4       | 10.38     | 10.40   | 10.35   | 11.50   |         |
|       |           | 8          | 7       | 10.39     | 10.34   | 10.37   | 11.50   |         |
|       |           | 15         | 0       | 10.31     | 10.35   | 10.27   | 11.50   |         |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 18625   | 18900   | 19175   |         |
|       | 5MHz      | QPSK       | 1       | 0         | 10.25   | 10.23   | 10.16   | 11.50   |
|       |           |            | 1       | 13        | 10.34   | 10.24   | 10.27   | 11.50   |
| 1     |           |            | 24      | 10.32     | 10.07   | 10.41   | 11.50   |         |
| 12    |           |            | 0       | 10.21     | 10.31   | 10.28   | 11.50   |         |
| 12    |           |            | 6       | 10.42     | 10.33   | 10.31   | 11.50   |         |
| 12    |           |            | 13      | 10.34     | 10.40   | 10.46   | 11.50   |         |
| 25    |           |            | 0       | 10.31     | 10.38   | 10.31   | 11.50   |         |
| 16QAM |           | 1          | 0       | 10.42     | 10.46   | 10.30   | 11.50   |         |
|       |           | 1          | 13      | 10.56     | 10.45   | 10.34   | 11.50   |         |
|       |           | 1          | 24      | 10.54     | 10.27   | 10.48   | 11.50   |         |
|       |           | 12         | 0       | 10.33     | 10.32   | 10.22   | 11.50   |         |
|       |           | 12         | 6       | 10.32     | 10.31   | 10.36   | 11.50   |         |
|       |           | 12         | 13      | 10.33     | 10.38   | 10.40   | 11.50   |         |
|       |           | 25         | 0       | 10.17     | 10.31   | 10.30   | 11.50   |         |



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|           | 64QAM      | 1       | 0         | 10.31   | 10.39   | 10.30   | 11.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 10.48   | 10.43   | 10.40   | 11.50   |
|           |            | 1       | 24        | 10.49   | 10.29   | 10.41   | 11.50   |
|           |            | 12      | 0         | 10.22   | 10.33   | 10.27   | 11.50   |
|           |            | 12      | 6         | 10.40   | 10.32   | 10.37   | 11.50   |
|           |            | 12      | 13        | 10.36   | 10.33   | 10.31   | 11.50   |
|           |            | 25      | 0         | 10.25   | 10.34   | 10.34   | 11.50   |
|           | 256QAM     | 1       | 0         | 10.37   | 10.40   | 10.28   | 11.50   |
|           |            | 1       | 13        | 10.46   | 10.53   | 10.47   | 11.50   |
|           |            | 1       | 24        | 10.47   | 10.29   | 10.45   | 11.50   |
|           |            | 12      | 0         | 10.22   | 10.46   | 10.21   | 11.50   |
|           |            | 12      | 6         | 10.31   | 10.35   | 10.38   | 11.50   |
|           |            | 12      | 13        | 10.32   | 10.32   | 10.33   | 11.50   |
|           |            | 25      | 0         | 10.29   | 10.43   | 10.30   | 11.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 10.22   | 10.25   | 10.17   | 11.50   |
|           |            | 1       | 25        | 10.33   | 10.33   | 10.33   | 11.50   |
|           |            | 1       | 49        | 10.36   | 10.10   | 10.41   | 11.50   |
|           |            | 25      | 0         | 10.25   | 10.37   | 10.28   | 11.50   |
|           |            | 25      | 13        | 10.34   | 10.25   | 10.35   | 11.50   |
|           |            | 25      | 25        | 10.39   | 10.40   | 10.43   | 11.50   |
|           |            | 50      | 0         | 10.27   | 10.29   | 10.30   | 11.50   |
|           | 16QAM      | 1       | 0         | 10.43   | 10.45   | 10.36   | 11.50   |
|           |            | 1       | 25        | 10.48   | 10.57   | 10.37   | 11.50   |
|           |            | 1       | 49        | 10.60   | 10.30   | 10.52   | 11.50   |
|           |            | 25      | 0         | 10.21   | 10.41   | 10.24   | 11.50   |
|           |            | 25      | 13        | 10.39   | 10.38   | 10.35   | 11.50   |
|           |            | 25      | 25        | 10.35   | 10.41   | 10.39   | 11.50   |
|           |            | 50      | 0         | 10.25   | 10.40   | 10.34   | 11.50   |
|           | 64QAM      | 1       | 0         | 10.36   | 10.29   | 10.29   | 11.50   |
|           |            | 1       | 25        | 10.45   | 10.43   | 10.37   | 11.50   |
|           |            | 1       | 49        | 10.50   | 10.23   | 10.42   | 11.50   |
|           |            | 25      | 0         | 10.22   | 10.43   | 10.24   | 11.50   |
|           |            | 25      | 13        | 10.33   | 10.32   | 10.36   | 11.50   |
|           |            | 25      | 25        | 10.37   | 10.35   | 10.33   | 11.50   |
|           |            | 50      | 0         | 10.26   | 10.39   | 10.37   | 11.50   |
|           | 256QAM     | 1       | 0         | 10.28   | 10.49   | 10.32   | 11.50   |
|           |            | 1       | 25        | 10.52   | 10.51   | 10.41   | 11.50   |



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| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|
|           |            |         |           | 18675   | 18900   | 19125   |         |       |
| 15MHz     | QPSK       | 1       | 49        | 10.40   | 10.26   | 10.44   | 11.50   |       |
|           |            | 25      | 0         | 10.23   | 10.45   | 10.19   | 11.50   |       |
|           |            | 25      | 13        | 10.32   | 10.41   | 10.32   | 11.50   |       |
|           |            | 25      | 25        | 10.32   | 10.40   | 10.40   | 11.50   |       |
|           |            | 50      | 0         | 10.29   | 10.43   | 10.27   | 11.50   |       |
|           | 16QAM      | 1       | 0         | 10.27   | 10.25   | 10.09   | 11.50   |       |
|           |            | 1       | 38        | 10.38   | 10.29   | 10.28   | 11.50   |       |
|           |            | 1       | 74        | 10.41   | 10.08   | 10.35   | 11.50   |       |
|           |            | 36      | 0         | 10.24   | 10.27   | 10.23   | 11.50   |       |
|           |            | 36      | 18        | 10.40   | 10.36   | 10.29   | 11.50   |       |
|           |            | 36      | 39        | 10.38   | 10.38   | 10.47   | 11.50   |       |
|           | 64QAM      | 1       | 0         | 10.44   | 10.51   | 10.32   | 11.50   |       |
|           |            | 1       | 38        | 10.50   | 10.47   | 10.33   | 11.50   |       |
|           |            | 1       | 74        | 10.61   | 10.31   | 10.54   | 11.50   |       |
|           |            | 36      | 0         | 10.25   | 10.41   | 10.27   | 11.50   |       |
|           |            | 36      | 18        | 10.32   | 10.30   | 10.31   | 11.50   |       |
|           |            | 36      | 39        | 10.31   | 10.32   | 10.30   | 11.50   |       |
|           | 256QAM     | 1       | 0         | 10.28   | 10.38   | 10.38   | 11.50   |       |
|           |            | 1       | 0         | 10.26   | 10.36   | 10.24   | 11.50   |       |
|           |            | 1       | 38        | 10.47   | 10.44   | 10.44   | 11.50   |       |
|           |            | 1       | 74        | 10.45   | 10.21   | 10.44   | 11.50   |       |
|           |            | 36      | 0         | 10.22   | 10.41   | 10.28   | 11.50   |       |
|           |            | 36      | 18        | 10.33   | 10.35   | 10.43   | 11.50   |       |
|           | 20MHz      | QPSK    | 1         | 0       | 10.34   | 10.42   | 10.21   | 11.50 |
|           |            |         | 1         | 38      | 10.52   | 10.49   | 10.49   | 11.50 |
|           | 20MHz      | QPSK    | 1         | 0       | 10.24   | 10.22   | 10.08   | 11.50 |
|           |            |         | 1         | 50      | 10.32   | 10.26   | 10.26   | 11.50 |



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|        |       |     |       |       |       |       |       |
|--------|-------|-----|-------|-------|-------|-------|-------|
|        |       | 1   | 99    | 10.35 | 10.08 | 10.34 | 11.50 |
|        |       | 50  | 0     | 10.22 | 10.28 | 10.25 | 11.50 |
|        |       | 50  | 25    | 10.34 | 10.27 | 10.30 | 11.50 |
|        |       | 50  | 50    | 10.35 | 10.35 | 10.37 | 11.50 |
|        |       | 100 | 0     | 10.27 | 10.31 | 10.29 | 11.50 |
|        | 16QAM | 1   | 0     | 10.34 | 10.41 | 10.26 | 11.50 |
|        |       | 1   | 50    | 10.47 | 10.47 | 10.35 | 11.50 |
|        |       | 1   | 99    | 10.56 | 10.27 | 10.45 | 11.50 |
|        |       | 50  | 0     | 10.23 | 10.34 | 10.21 | 11.50 |
|        |       | 50  | 25    | 10.30 | 10.32 | 10.32 | 11.50 |
|        |       | 50  | 50    | 10.29 | 10.34 | 10.32 | 11.50 |
|        | 64QAM | 100 | 0     | 10.18 | 10.32 | 10.28 | 11.50 |
|        |       | 1   | 0     | 10.28 | 10.31 | 10.26 | 11.50 |
|        |       | 1   | 50    | 10.41 | 10.42 | 10.37 | 11.50 |
|        |       | 1   | 99    | 10.46 | 10.21 | 10.40 | 11.50 |
| 50     |       | 0   | 10.21 | 10.33 | 10.25 | 11.50 |       |
| 50     |       | 25  | 10.34 | 10.34 | 10.33 | 11.50 |       |
| 50     |       | 50  | 10.34 | 10.30 | 10.33 | 11.50 |       |
| 256QAM | 100   | 0   | 10.23 | 10.35 | 10.31 | 11.50 |       |
|        | 1     | 0   | 10.27 | 10.41 | 10.22 | 11.50 |       |
|        | 1     | 50  | 10.46 | 10.45 | 10.42 | 11.50 |       |
|        | 1     | 99  | 10.39 | 10.25 | 10.46 | 11.50 |       |
|        | 50    | 0   | 10.13 | 10.36 | 10.20 | 11.50 |       |
|        | 50    | 25  | 10.30 | 10.34 | 10.34 | 11.50 |       |
|        | 50    | 50  | 10.32 | 10.30 | 10.34 | 11.50 |       |
|        |       | 100 | 0     | 10.26 | 10.33 | 10.29 | 11.50 |



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