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# Appendix E

## Conducted RF Output Power

# 1 Conducted Power of Legacy

## 1.1 Conducted Power of Legacy (Ant0)

| WCDMA Band II full power/Body worn/Hotspot |              |       |       |       |         |
|--------------------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)               |              |       |       |       |         |
| Channel                                    |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                                      | 12.2kbps RMC | 23.21 | 23.31 | 23.13 | 25.00   |
|                                            | 12.2kbps AMR | 23.07 | 23.08 | 23.21 | 25.00   |
| HSDPA                                      | Subtest 1    | 23.17 | 23.11 | 23.14 | 25.00   |
|                                            | Subtest 2    | 23.12 | 23.13 | 23.13 | 25.00   |
|                                            | Subtest 3    | 22.63 | 22.63 | 22.68 | 24.50   |
|                                            | Subtest 4    | 22.70 | 22.63 | 22.58 | 24.50   |
| HSUPA                                      | Subtest 1    | 23.05 | 23.12 | 23.05 | 25.00   |
|                                            | Subtest 2    | 23.01 | 23.02 | 23.03 | 25.00   |
|                                            | Subtest 3    | 22.68 | 22.59 | 22.68 | 24.50   |
|                                            | Subtest 4    | 22.63 | 22.71 | 22.58 | 24.50   |
|                                            | Subtest 5    | 23.07 | 23.16 | 23.10 | 25.00   |
| HSPA+                                      | 16QAM        | 20.67 | 20.71 | 20.62 | 22.50   |

| WCDMA Band II Head           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.67 | 21.75 | 21.62 | 23.00   |
|                              | 12.2kbps AMR | 21.53 | 21.54 | 21.69 | 23.00   |
| HSDPA                        | Subtest 1    | 21.70 | 21.57 | 21.59 | 23.00   |
|                              | Subtest 2    | 21.59 | 21.64 | 21.65 | 23.00   |
|                              | Subtest 3    | 21.10 | 21.13 | 21.20 | 22.50   |
|                              | Subtest 4    | 21.22 | 21.08 | 21.04 | 22.50   |
| HSUPA                        | Subtest 1    | 21.03 | 21.11 | 21.00 | 23.00   |
|                              | Subtest 2    | 21.03 | 21.01 | 21.03 | 23.00   |
|                              | Subtest 3    | 20.65 | 20.60 | 20.67 | 22.50   |
|                              | Subtest 4    | 20.66 | 20.67 | 20.58 | 22.50   |
|                              | Subtest 5    | 21.07 | 21.14 | 21.06 | 23.00   |
| HSPA+                        | 16QAM        | 18.64 | 18.73 | 18.65 | 20.50   |

| WCDMA Band IV full power/Body worn/Hotspot |              |       |       |       |         |
|--------------------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)               |              |       |       |       |         |
| Channel                                    |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                                      | 12.2kbps RMC | 23.43 | 23.57 | 23.47 | 25.00   |
|                                            | 12.2kbps AMR | 23.33 | 23.5  | 23.41 | 25.00   |
| HSDPA                                      | Subtest 1    | 23.30 | 23.49 | 23.39 | 25.00   |
|                                            | Subtest 2    | 23.35 | 23.45 | 23.38 | 25.00   |
|                                            | Subtest 3    | 22.90 | 23.08 | 22.92 | 24.50   |
|                                            | Subtest 4    | 22.93 | 23.07 | 22.96 | 24.50   |
| HSUPA                                      | Subtest 1    | 23.00 | 23.18 | 23.02 | 25.00   |
|                                            | Subtest 2    | 23.04 | 23.17 | 23.10 | 25.00   |
|                                            | Subtest 3    | 22.60 | 22.78 | 22.62 | 24.50   |
|                                            | Subtest 4    | 22.63 | 22.77 | 22.66 | 24.50   |
|                                            | Subtest 5    | 23.02 | 23.14 | 23.05 | 25.00   |
| HSPA+                                      | 16QAM        | 20.58 | 20.75 | 20.67 | 22.50   |

| WCDMA Band IV Head           |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 21.43 | 21.58 | 21.5  | 22.50   |
|                              | 12.2kbps AMR | 21.34 | 21.48 | 21.37 | 22.50   |
| HSDPA                        | Subtest 1    | 21.30 | 21.51 | 21.39 | 22.50   |
|                              | Subtest 2    | 21.37 | 21.48 | 21.35 | 22.50   |
|                              | Subtest 3    | 20.92 | 21.09 | 20.91 | 22.00   |
|                              | Subtest 4    | 20.90 | 21.04 | 20.98 | 22.00   |
| HSUPA                        | Subtest 1    | 20.51 | 20.67 | 20.53 | 22.50   |
|                              | Subtest 2    | 20.57 | 20.66 | 20.63 | 22.50   |
|                              | Subtest 3    | 20.09 | 20.30 | 20.15 | 22.00   |
|                              | Subtest 4    | 20.15 | 20.23 | 20.13 | 22.00   |
|                              | Subtest 5    | 20.54 | 20.62 | 20.54 | 22.50   |
| HSPA+                        | 16QAM        | 18.06 | 18.25 | 18.18 | 20.00   |

| WCDMA Band V full power/Body worn/Hotspot |              |       |       |       |         |
|-------------------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)              |              |       |       |       |         |
| Channel                                   |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                                     | 12.2kbps RMC | 23.18 | 23.19 | 23.00 | 25.00   |
|                                           | 12.2kbps AMR | 23.12 | 23.11 | 23.13 | 25.00   |
| HSDPA                                     | Subtest 1    | 23.09 | 23.02 | 23.06 | 25.00   |
|                                           | Subtest 2    | 23.07 | 23.05 | 23.12 | 25.00   |
|                                           | Subtest 3    | 22.66 | 22.72 | 22.71 | 24.50   |
|                                           | Subtest 4    | 22.61 | 22.67 | 22.69 | 24.50   |
| HSUPA                                     | Subtest 1    | 23.03 | 23.11 | 23.08 | 25.00   |
|                                           | Subtest 2    | 23.08 | 23.11 | 23.10 | 25.00   |
|                                           | Subtest 3    | 22.66 | 22.66 | 22.68 | 24.50   |
|                                           | Subtest 4    | 22.68 | 22.71 | 22.75 | 24.50   |
| HSPA+                                     | Subtest 5    | 23.07 | 23.11 | 23.13 | 25.00   |
|                                           | 16QAM        | 20.68 | 20.61 | 20.68 | 22.50   |

| WCDMA Band V Head            |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 22.35 | 22.41 | 22.35 | 24.00   |
|                              | 12.2kbps AMR | 22.39 | 22.34 | 22.28 | 24.00   |
| HSDPA                        | Subtest 1    | 22.27 | 22.21 | 22.29 | 24.00   |
|                              | Subtest 2    | 22.30 | 22.23 | 22.29 | 24.00   |
|                              | Subtest 3    | 21.86 | 21.90 | 21.90 | 23.50   |
|                              | Subtest 4    | 21.76 | 21.86 | 21.87 | 23.50   |
| HSUPA                        | Subtest 1    | 22.01 | 22.11 | 22.11 | 24.00   |
|                              | Subtest 2    | 22.10 | 22.10 | 22.05 | 24.00   |
|                              | Subtest 3    | 21.64 | 21.68 | 21.67 | 23.50   |
|                              | Subtest 4    | 21.70 | 21.70 | 21.72 | 23.50   |
| HSPA+                        | Subtest 5    | 22.03 | 22.14 | 22.13 | 24.00   |
|                              | 16QAM        | 19.70 | 19.58 | 19.69 | 21.50   |

| LTE Band 2 full power |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                | QPSK       | 1       | 0         | 22.34                | 22.74   | 22.36   | 24.00   |
|                       |            | 1       | 2         | 22.52                | 22.31   | 22.49   | 24.00   |
|                       |            | 1       | 5         | 22.27                | 22.36   | 22.26   | 24.00   |
|                       |            | 3       | 0         | 22.57                | 22.43   | 22.44   | 24.00   |
|                       |            | 3       | 2         | 22.38                | 22.41   | 22.43   | 24.00   |
|                       |            | 3       | 3         | 22.16                | 22.23   | 22.51   | 24.00   |
|                       | 16QAM      | 6       | 0         | 21.16                | 21.33   | 21.05   | 23.00   |
|                       |            | 1       | 0         | 21.08                | 21.37   | 21.45   | 23.00   |
|                       |            | 1       | 2         | 21.29                | 21.44   | 21.55   | 23.00   |
|                       |            | 1       | 5         | 21.27                | 21.45   | 21.18   | 23.00   |
|                       |            | 3       | 0         | 21.32                | 21.47   | 21.40   | 23.00   |
|                       |            | 3       | 2         | 21.10                | 21.42   | 21.43   | 23.00   |
|                       | 64QAM      | 3       | 3         | 21.41                | 21.47   | 21.23   | 23.00   |
|                       |            | 6       | 0         | 20.59                | 20.32   | 20.30   | 22.00   |
|                       |            | 1       | 0         | 20.21                | 20.02   | 20.55   | 22.00   |
|                       |            | 1       | 2         | 20.27                | 20.15   | 20.37   | 22.00   |
|                       |            | 1       | 5         | 20.48                | 20.29   | 20.33   | 22.00   |
|                       |            | 3       | 0         | 20.24                | 20.38   | 20.32   | 22.00   |
|                       | 256QAM     | 3       | 2         | 20.16                | 20.44   | 20.42   | 22.00   |
|                       |            | 3       | 3         | 20.37                | 20.74   | 20.25   | 22.00   |
|                       |            | 6       | 0         | 19.23                | 19.40   | 19.18   | 21.00   |
|                       |            | 1       | 0         | 17.42                | 17.34   | 17.21   | 19.00   |
|                       |            | 1       | 2         | 17.38                | 17.61   | 17.26   | 19.00   |
|                       |            | 1       | 5         | 17.30                | 17.36   | 17.35   | 19.00   |
| 3MHz                  | QPSK       | 3       | 0         | 17.38                | 17.64   | 17.55   | 19.00   |
|                       |            | 3       | 2         | 17.50                | 17.09   | 17.38   | 19.00   |
|                       |            | 3       | 3         | 17.28                | 17.35   | 17.30   | 19.00   |
|                       |            | 6       | 0         | 17.18                | 17.38   | 17.23   | 19.00   |
|                       |            | 1       | 0         | 18.615               | 18.900  | 19.185  | 24.00   |
|                       |            | 1       | 7         | 22.40                | 22.64   | 22.46   | 24.00   |
| 3MHz                  | QPSK       | 1       | 14        | 22.50                | 22.32   | 22.44   | 24.00   |
|                       |            | 1       | 14        | 22.27                | 22.44   | 22.30   | 24.00   |

|           |            | 8       | 0         | 21.62            | 21.42            | 21.35            | 23.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 8       | 4         | 21.48            | 21.33            | 21.44            | 23.00   |
|           |            | 8       | 7         | 21.08            | 21.17            | 21.49            | 23.00   |
|           |            | 15      | 0         | 21.18            | 21.42            | 21.13            | 23.00   |
|           | 16QAM      | 1       | 0         | 21.14            | 21.34            | 21.47            | 23.00   |
|           |            | 1       | 7         | 21.33            | 21.46            | 21.59            | 23.00   |
|           |            | 1       | 14        | 21.28            | 21.43            | 21.09            | 23.00   |
|           |            | 8       | 0         | 20.40            | 20.49            | 20.39            | 22.00   |
|           |            | 8       | 4         | 20.18            | 20.43            | 20.37            | 22.00   |
|           |            | 8       | 7         | 20.44            | 20.46            | 20.29            | 22.00   |
|           |            | 15      | 0         | 20.52            | 20.41            | 20.38            | 22.00   |
|           |            | 1       | 0         | 20.31            | 20.08            | 20.51            | 22.00   |
|           | 64QAM      | 1       | 7         | 20.28            | 20.21            | 20.35            | 22.00   |
|           |            | 1       | 14        | 20.46            | 20.39            | 20.41            | 22.00   |
|           |            | 8       | 0         | 19.22            | 19.35            | 19.37            | 21.00   |
|           |            | 8       | 4         | 19.15            | 19.54            | 19.35            | 21.00   |
|           |            | 8       | 7         | 19.44            | 19.66            | 19.23            | 21.00   |
|           |            | 15      | 0         | 19.32            | 19.40            | 19.28            | 21.00   |
|           | 256QAM     | 1       | 0         | 17.35            | 17.31            | 17.25            | 19.00   |
|           |            | 1       | 7         | 17.42            | 17.55            | 17.26            | 19.00   |
|           |            | 1       | 14        | 17.20            | 17.35            | 17.32            | 19.00   |
|           |            | 8       | 0         | 17.40            | 17.56            | 17.60            | 19.00   |
|           |            | 8       | 4         | 17.44            | 17.11            | 17.29            | 19.00   |
|           |            | 8       | 7         | 17.31            | 17.28            | 17.27            | 19.00   |
|           |            | 15      | 0         | 17.17            | 17.33            | 17.15            | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>18625 | Channel<br>18900 | Channel<br>19175 | Tune up |
| 5MHz      | QPSK       | 1       | 0         | 22.35            | 22.55            | 22.45            | 24.00   |
|           |            | 1       | 13        | 22.58            | 22.41            | 22.41            | 24.00   |
|           |            | 1       | 24        | 22.36            | 22.34            | 22.38            | 24.00   |
|           |            | 12      | 0         | 21.57            | 21.43            | 21.28            | 23.00   |
|           |            | 12      | 6         | 21.38            | 21.33            | 21.39            | 23.00   |
|           |            | 12      | 13        | 21.16            | 21.12            | 21.43            | 23.00   |
|           |            | 25      | 0         | 21.21            | 21.35            | 21.20            | 23.00   |
|           | 16QAM      | 1       | 0         | 21.18            | 21.30            | 21.43            | 23.00   |
|           |            | 1       | 13        | 21.42            | 21.38            | 21.56            | 23.00   |
|           |            | 1       | 24        | 21.28            | 21.33            | 21.17            | 23.00   |
|           |            | 12      | 0         | 20.31            | 20.46            | 20.34            | 22.00   |
|           |            | 12      | 6         | 20.28            | 20.43            | 20.30            | 22.00   |
|           |            | 12      | 13        | 20.43            | 20.37            | 20.38            | 22.00   |
|           |            | 25      | 0         | 20.54            | 20.32            | 20.42            | 22.00   |
|           | 64QAM      | 1       | 0         | 20.29            | 20.13            | 20.54            | 22.00   |
|           |            | 1       | 13        | 20.28            | 20.23            | 20.36            | 22.00   |
|           |            | 1       | 24        | 20.36            | 20.30            | 20.32            | 22.00   |
|           |            | 12      | 0         | 19.32            | 19.38            | 19.45            | 21.00   |
|           |            | 12      | 6         | 19.22            | 19.53            | 19.45            | 21.00   |
|           |            | 12      | 13        | 19.34            | 19.58            | 19.33            | 21.00   |
|           |            | 25      | 0         | 19.22            | 19.35            | 19.27            | 21.00   |
|           | 256QAM     | 1       | 0         | 17.34            | 17.35            | 17.24            | 19.00   |
|           |            | 1       | 13        | 17.41            | 17.49            | 17.23            | 19.00   |
|           |            | 1       | 24        | 17.17            | 17.35            | 17.26            | 19.00   |
|           |            | 12      | 0         | 17.31            | 17.46            | 17.51            | 19.00   |
|           |            | 12      | 6         | 17.35            | 17.17            | 17.34            | 19.00   |
|           |            | 12      | 13        | 17.27            | 17.34            | 17.24            | 19.00   |
|           |            | 25      | 0         | 17.21            | 17.38            | 17.25            | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>18650 | Channel<br>18900 | Channel<br>19150 | Tune up |
| 10MHz     | QPSK       | 1       | 0         | 22.28            | 22.51            | 22.42            | 24.00   |
|           |            | 1       | 25        | 22.50            | 22.40            | 22.38            | 24.00   |
|           |            | 1       | 49        | 22.46            | 22.30            | 22.36            | 24.00   |
|           |            | 25      | 0         | 21.52            | 21.52            | 21.37            | 23.00   |
|           |            | 25      | 13        | 21.37            | 21.26            | 21.33            | 23.00   |
|           |            | 25      | 25        | 21.26            | 21.20            | 21.36            | 23.00   |
|           |            | 50      | 0         | 21.27            | 21.32            | 21.30            | 23.00   |
|           | 16QAM      | 1       | 0         | 21.27            | 21.30            | 21.51            | 23.00   |
|           |            | 1       | 25        | 21.46            | 21.45            | 21.51            | 23.00   |
|           |            | 1       | 49        | 21.24            | 21.24            | 21.17            | 23.00   |
|           |            | 25      | 0         | 20.22            | 20.50            | 20.26            | 22.00   |
|           |            | 25      | 13        | 20.26            | 20.35            | 20.28            | 22.00   |
|           |            | 25      | 25        | 20.33            | 20.43            | 20.34            | 22.00   |

|           | 64QAM      | 50      | 0         | 20.44   | 20.36   | 20.32   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 20.28   | 20.21   | 20.46   | 22.00   |
|           |            | 1       | 25        | 20.29   | 20.25   | 20.39   | 22.00   |
|           |            | 1       | 49        | 20.36   | 20.28   | 20.32   | 22.00   |
|           |            | 25      | 0         | 19.27   | 19.37   | 19.35   | 21.00   |
|           |            | 25      | 13        | 19.28   | 19.43   | 19.43   | 21.00   |
|           |            | 25      | 25        | 19.33   | 19.52   | 19.36   | 21.00   |
|           | 256QAM     | 50      | 0         | 19.23   | 19.25   | 19.18   | 21.00   |
|           |            | 1       | 0         | 17.24   | 17.29   | 17.24   | 19.00   |
|           |            | 1       | 25        | 17.33   | 17.46   | 17.27   | 19.00   |
|           |            | 1       | 49        | 17.26   | 17.41   | 17.27   | 19.00   |
|           |            | 25      | 0         | 17.39   | 17.56   | 17.42   | 19.00   |
|           |            | 25      | 13        | 17.28   | 17.27   | 17.34   | 19.00   |
|           |            | 25      | 25        | 17.32   | 17.29   | 17.33   | 19.00   |
|           |            | 50      | 0         | 17.30   | 17.41   | 17.30   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.22   | 22.55   | 22.37   | 24.00   |
|           |            | 1       | 38        | 22.42   | 22.35   | 22.38   | 24.00   |
|           |            | 1       | 74        | 22.42   | 22.29   | 22.39   | 24.00   |
|           |            | 36      | 0         | 21.46   | 21.50   | 21.34   | 23.00   |
|           |            | 36      | 18        | 21.32   | 21.29   | 21.35   | 23.00   |
|           |            | 36      | 39        | 21.23   | 21.27   | 21.40   | 23.00   |
|           |            | 75      | 0         | 21.25   | 21.39   | 21.39   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.36   | 21.31   | 21.44   | 23.00   |
|           |            | 1       | 38        | 21.42   | 21.40   | 21.49   | 23.00   |
|           |            | 1       | 74        | 21.33   | 21.30   | 21.27   | 23.00   |
|           |            | 36      | 0         | 20.29   | 20.40   | 20.34   | 22.00   |
|           |            | 36      | 18        | 20.33   | 20.37   | 20.32   | 22.00   |
|           |            | 36      | 39        | 20.32   | 20.39   | 20.43   | 22.00   |
|           |            | 75      | 0         | 20.34   | 20.41   | 20.34   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.35   | 20.28   | 20.42   | 22.00   |
|           |            | 1       | 38        | 20.37   | 20.20   | 20.43   | 22.00   |
|           |            | 1       | 74        | 20.29   | 20.29   | 20.24   | 22.00   |
|           |            | 36      | 0         | 19.32   | 19.30   | 19.33   | 21.00   |
|           |            | 36      | 18        | 19.35   | 19.40   | 19.41   | 21.00   |
|           |            | 36      | 39        | 19.41   | 19.48   | 19.40   | 21.00   |
|           |            | 75      | 0         | 19.32   | 19.32   | 19.26   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.30   | 17.39   | 17.32   | 19.00   |
|           |            | 1       | 38        | 17.25   | 17.41   | 17.29   | 19.00   |
|           |            | 1       | 74        | 17.36   | 17.42   | 17.22   | 19.00   |
|           |            | 36      | 0         | 17.30   | 17.48   | 17.49   | 19.00   |
|           |            | 36      | 18        | 17.38   | 17.29   | 17.24   | 19.00   |
|           |            | 36      | 39        | 17.25   | 17.36   | 17.26   | 19.00   |
|           |            | 75      | 0         | 17.28   | 17.40   | 17.32   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.28   | 22.79   | 22.35   | 24.00   |
|           |            | 1       | 50        | 22.34   | 22.63   | 22.31   | 24.00   |
|           |            | 1       | 99        | 22.38   | 22.64   | 22.37   | 24.00   |
|           |            | 50      | 0         | 21.76   | 21.80   | 21.71   | 23.00   |
|           |            | 50      | 25        | 21.74   | 21.72   | 21.75   | 23.00   |
|           |            | 50      | 50        | 21.73   | 21.75   | 21.73   | 23.00   |
|           |            | 100     | 0         | 21.69   | 21.78   | 21.75   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.37   | 21.35   | 21.34   | 23.00   |
|           |            | 1       | 50        | 21.33   | 21.31   | 21.42   | 23.00   |
|           |            | 1       | 99        | 21.37   | 21.40   | 21.30   | 23.00   |
|           |            | 50      | 0         | 20.28   | 20.31   | 20.36   | 22.00   |
|           |            | 50      | 25        | 20.32   | 20.34   | 20.36   | 22.00   |
|           |            | 50      | 50        | 20.36   | 20.35   | 20.34   | 22.00   |
|           |            | 100     | 0         | 20.36   | 20.37   | 20.32   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.32   | 20.31   | 20.38   | 22.00   |
|           |            | 1       | 50        | 20.36   | 20.30   | 20.38   | 22.00   |
|           |            | 1       | 99        | 20.32   | 20.29   | 20.30   | 22.00   |
|           |            | 50      | 0         | 19.38   | 19.40   | 19.37   | 21.00   |
|           |            | 50      | 25        | 19.36   | 19.33   | 19.31   | 21.00   |
|           |            | 50      | 50        | 19.40   | 19.39   | 19.40   | 21.00   |
|           |            | 100     | 0         | 19.33   | 19.38   | 19.33   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.35   | 17.34   | 17.36   | 19.00   |
|           |            | 1       | 50        | 17.30   | 17.39   | 17.35   | 19.00   |

|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 99 | 17.31 | 17.39 | 17.32 | 19.00 |
|  |  | 50  | 0  | 17.29 | 17.38 | 17.40 | 19.00 |
|  |  | 50  | 25 | 17.35 | 17.36 | 17.31 | 19.00 |
|  |  | 50  | 50 | 17.30 | 17.39 | 17.36 | 19.00 |
|  |  | 100 | 0  | 17.36 | 17.39 | 17.41 | 19.00 |

| LTE Band 2 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 20.95                | 20.90   | 20.89   | 22.50   |
|                 |            | 1       | 2         | 20.94                | 21.05   | 20.79   | 22.50   |
|                 |            | 1       | 5         | 20.99                | 21.24   | 21.30   | 22.50   |
|                 |            | 3       | 0         | 20.96                | 21.11   | 20.95   | 22.50   |
|                 |            | 3       | 2         | 20.97                | 20.87   | 21.22   | 22.50   |
|                 |            | 3       | 3         | 20.90                | 20.94   | 21.02   | 22.50   |
|                 | 16QAM      | 6       | 0         | 20.98                | 20.84   | 21.06   | 22.50   |
|                 |            | 1       | 0         | 20.83                | 20.90   | 20.81   | 22.50   |
|                 |            | 1       | 2         | 21.04                | 21.04   | 21.04   | 22.50   |
|                 |            | 1       | 5         | 20.91                | 20.89   | 21.09   | 22.50   |
|                 |            | 3       | 0         | 20.68                | 20.94   | 21.09   | 22.50   |
|                 |            | 3       | 2         | 20.72                | 20.80   | 20.75   | 22.50   |
|                 | 64QAM      | 3       | 3         | 20.95                | 21.03   | 20.66   | 22.50   |
|                 |            | 6       | 0         | 20.50                | 20.49   | 20.33   | 22.00   |
|                 |            | 1       | 0         | 20.24                | 20.50   | 20.56   | 22.00   |
|                 |            | 1       | 2         | 20.61                | 20.38   | 20.64   | 22.00   |
|                 |            | 1       | 5         | 20.06                | 20.47   | 20.40   | 22.00   |
|                 |            | 3       | 0         | 20.40                | 20.30   | 20.55   | 22.00   |
| 3MHz            | QPSK       | 3       | 2         | 20.34                | 20.31   | 20.31   | 22.00   |
|                 |            | 3       | 3         | 20.33                | 20.45   | 20.43   | 22.00   |
|                 |            | 6       | 0         | 19.39                | 19.51   | 19.22   | 21.00   |
|                 | 16QAM      | 1       | 0         | 17.38                | 17.59   | 17.21   | 19.00   |
|                 |            | 1       | 2         | 17.31                | 17.41   | 17.47   | 19.00   |
|                 |            | 1       | 5         | 17.11                | 17.33   | 17.22   | 19.00   |
|                 | 64QAM      | 3       | 0         | 17.40                | 17.50   | 17.53   | 19.00   |
|                 |            | 3       | 2         | 17.45                | 17.22   | 17.01   | 19.00   |
|                 |            | 3       | 3         | 17.32                | 17.25   | 17.28   | 19.00   |
|                 | 256QAM     | 6       | 0         | 17.38                | 17.31   | 17.61   | 19.00   |
|                 |            | 1       | 0         | 18.615               | 18.900  | 19.185  | 22.50   |
|                 |            | 1       | 7         | 20.87                | 20.92   | 20.95   | 22.50   |
|                 |            | 1       | 14        | 20.84                | 20.99   | 20.72   | 22.50   |
|                 |            | 8       | 0         | 21.05                | 21.23   | 21.21   | 22.50   |
|                 |            | 8       | 4         | 20.86                | 21.03   | 21.03   | 22.50   |
|                 | 16QAM      | 8       | 7         | 20.97                | 20.87   | 21.15   | 22.50   |
|                 |            | 8       | 0         | 21.00                | 20.90   | 20.94   | 22.50   |
|                 |            | 15      | 0         | 20.95                | 20.82   | 21.05   | 22.50   |
|                 |            | 1       | 0         | 20.78                | 20.86   | 20.88   | 22.50   |
|                 |            | 1       | 7         | 20.84                | 20.91   | 21.02   | 22.50   |
|                 |            | 8       | 0         | 20.14                | 20.54   | 20.53   | 22.00   |
|                 | 64QAM      | 8       | 4         | 20.22                | 20.37   | 20.22   | 22.00   |
|                 |            | 8       | 7         | 20.46                | 20.58   | 20.09   | 22.00   |
|                 |            | 15      | 0         | 20.44                | 20.43   | 20.37   | 22.00   |
|                 |            | 1       | 0         | 20.17                | 20.45   | 20.51   | 22.00   |
|                 |            | 1       | 7         | 20.58                | 20.39   | 20.55   | 22.00   |
|                 |            | 1       | 14        | 20.15                | 20.41   | 20.36   | 22.00   |
|                 | 256QAM     | 8       | 0         | 19.35                | 19.38   | 19.47   | 21.00   |
|                 |            | 8       | 4         | 19.40                | 19.29   | 19.34   | 21.00   |
|                 |            | 8       | 7         | 19.41                | 19.46   | 19.40   | 21.00   |
|                 |            | 15      | 0         | 19.31                | 19.50   | 19.29   | 21.00   |
|                 |            | 1       | 0         | 17.34                | 17.57   | 17.14   | 19.00   |
|                 |            | 1       | 7         | 17.32                | 17.38   | 17.53   | 19.00   |
|                 | 256QAM     | 1       | 14        | 17.16                | 17.39   | 17.27   | 19.00   |
|                 |            | 8       | 0         | 17.45                | 17.54   | 17.53   | 19.00   |
|                 |            | 8       | 4         | 17.46                | 17.23   | 17.11   | 19.00   |
|                 |            | 8       | 7         | 17.28                | 17.33   | 17.22   | 19.00   |
|                 |            | 15      | 0         | 17.30                | 17.35   | 17.57   | 19.00   |
|                 |            | 1       | 0         | 17.34                | 17.57   | 17.14   | 19.00   |
|                 |            | 1       | 7         | 17.32                | 17.38   | 17.53   | 19.00   |
|                 |            | 1       | 14        | 17.16                | 17.39   | 17.27   | 19.00   |
|                 |            | 8       | 0         | 17.45                | 17.54   | 17.53   | 19.00   |
|                 |            | 8       | 4         | 17.46                | 17.23   | 17.11   | 19.00   |
|                 |            | 8       | 7         | 17.28                | 17.33   | 17.22   | 19.00   |
|                 |            | 15      | 0         | 17.30                | 17.35   | 17.57   | 19.00   |
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|       |        |    |    |       |       |       |       |
|-------|--------|----|----|-------|-------|-------|-------|
| 5MHz  | QPSK   | 1  | 0  | 18625 | 18900 | 19175 |       |
|       |        | 1  | 13 | 20.89 | 20.84 | 20.94 | 22.50 |
|       |        | 1  | 24 | 20.93 | 21.05 | 20.80 | 22.50 |
|       |        | 12 | 0  | 21.12 | 21.13 | 21.27 | 22.50 |
|       |        | 12 | 6  | 20.94 | 21.02 | 21.13 | 22.50 |
|       |        | 12 | 13 | 21.07 | 20.90 | 21.05 | 22.50 |
|       | 16QAM  | 25 | 0  | 20.92 | 20.92 | 21.01 | 22.50 |
|       |        | 1  | 0  | 20.97 | 20.92 | 21.08 | 22.50 |
|       |        | 1  | 13 | 20.77 | 20.96 | 20.88 | 22.50 |
|       |        | 1  | 24 | 21.09 | 20.97 | 20.85 | 22.50 |
|       |        | 12 | 0  | 20.90 | 21.01 | 20.92 | 22.50 |
|       |        | 12 | 6  | 20.17 | 20.49 | 20.43 | 22.00 |
|       | 64QAM  | 12 | 13 | 20.25 | 20.31 | 20.15 | 22.00 |
|       |        | 12 | 25 | 20.47 | 20.49 | 20.19 | 22.00 |
|       |        | 25 | 0  | 20.35 | 20.49 | 20.27 | 22.00 |
|       |        | 1  | 0  | 20.25 | 20.51 | 20.51 | 22.00 |
|       |        | 1  | 13 | 20.49 | 20.31 | 20.63 | 22.00 |
|       |        | 1  | 24 | 20.20 | 20.37 | 20.33 | 22.00 |
|       | 256QAM | 12 | 0  | 19.35 | 19.38 | 19.43 | 21.00 |
|       |        | 12 | 6  | 19.46 | 19.29 | 19.24 | 21.00 |
|       |        | 12 | 13 | 19.47 | 19.36 | 19.31 | 21.00 |
|       |        | 25 | 0  | 19.37 | 19.43 | 19.20 | 21.00 |
|       |        | 1  | 0  | 17.26 | 17.53 | 17.24 | 19.00 |
|       |        | 1  | 13 | 17.32 | 17.39 | 17.46 | 19.00 |
| 10MHz | QPSK   | 1  | 24 | 17.25 | 17.32 | 17.34 | 19.00 |
|       |        | 12 | 0  | 17.50 | 17.53 | 17.63 | 19.00 |
|       |        | 12 | 6  | 17.45 | 17.28 | 17.21 | 19.00 |
|       |        | 12 | 13 | 17.32 | 17.28 | 17.28 | 19.00 |
|       |        | 25 | 0  | 17.34 | 17.25 | 17.53 | 19.00 |
|       |        | 1  | 0  | 18650 | 18900 | 19150 |       |
|       | 16QAM  | 1  | 0  | 20.97 | 20.89 | 20.89 | 22.50 |
|       |        | 1  | 25 | 20.97 | 20.98 | 20.86 | 22.50 |
|       |        | 1  | 49 | 21.05 | 21.07 | 21.20 | 22.50 |
|       |        | 25 | 0  | 20.98 | 21.01 | 21.12 | 22.50 |
|       |        | 25 | 13 | 20.97 | 20.82 | 21.07 | 22.50 |
|       |        | 25 | 25 | 21.13 | 20.93 | 21.00 | 22.50 |
|       | 64QAM  | 50 | 0  | 20.87 | 20.88 | 21.05 | 22.50 |
|       |        | 1  | 0  | 20.78 | 20.96 | 20.96 | 22.50 |
|       |        | 1  | 25 | 21.01 | 21.01 | 20.93 | 22.50 |
|       |        | 1  | 49 | 20.96 | 21.08 | 20.84 | 22.50 |
|       |        | 25 | 0  | 20.18 | 20.43 | 20.43 | 22.00 |
|       |        | 25 | 13 | 20.20 | 20.36 | 20.24 | 22.00 |
|       | 256QAM | 25 | 25 | 20.47 | 20.47 | 20.14 | 22.00 |
|       |        | 50 | 0  | 20.42 | 20.44 | 20.30 | 22.00 |
|       |        | 1  | 0  | 20.25 | 20.41 | 20.43 | 22.00 |
|       |        | 1  | 25 | 20.55 | 20.34 | 20.54 | 22.00 |
|       |        | 1  | 49 | 20.24 | 20.44 | 20.35 | 22.00 |
|       |        | 25 | 0  | 19.37 | 19.46 | 19.47 | 21.00 |
| 15MHz | QPSK   | 25 | 13 | 19.49 | 19.35 | 19.25 | 21.00 |
|       |        | 25 | 25 | 19.37 | 19.41 | 19.23 | 21.00 |
|       |        | 50 | 0  | 19.28 | 19.33 | 19.23 | 21.00 |
|       | 16QAM  | 1  | 0  | 17.29 | 17.45 | 17.31 | 19.00 |
|       |        | 1  | 25 | 17.39 | 17.31 | 17.50 | 19.00 |
|       |        | 1  | 49 | 17.30 | 17.39 | 17.39 | 19.00 |
|       | 256QAM | 25 | 0  | 17.40 | 17.48 | 17.57 | 19.00 |
|       |        | 25 | 13 | 17.35 | 17.36 | 17.11 | 19.00 |
|       |        | 25 | 25 | 17.36 | 17.26 | 17.22 | 19.00 |
|       |        | 50 | 0  | 17.31 | 17.24 | 17.43 | 19.00 |
|       | QPSK   | 1  | 0  | 20.97 | 20.97 | 20.97 | 22.50 |
|       |        | 1  | 38 | 21.05 | 21.03 | 20.96 | 22.50 |
|       |        | 1  | 74 | 20.95 | 21.00 | 21.10 | 22.50 |
|       |        | 36 | 0  | 20.91 | 21.04 | 21.04 | 22.50 |
|       |        | 36 | 18 | 20.93 | 20.88 | 20.97 | 22.50 |
|       |        | 36 | 39 | 21.05 | 20.94 | 21.00 | 22.50 |
| 15MHz | QPSK   | 75 | 0  | 20.93 | 20.93 | 21.01 | 22.50 |
|       |        | 1  | 0  | 20.85 | 20.99 | 20.90 | 22.50 |
|       |        | 1  | 38 | 21.08 | 20.92 | 21.03 | 22.50 |
|       | 16QAM  | 1  | 0  | 18675 | 18900 | 19125 |       |
|       |        | 1  | 0  | 20.97 | 20.97 | 20.97 | 22.50 |
|       |        | 1  | 38 | 21.05 | 21.03 | 20.96 | 22.50 |
|       |        | 1  | 74 | 20.95 | 21.00 | 21.10 | 22.50 |
|       |        | 36 | 0  | 20.91 | 21.04 | 21.04 | 22.50 |
|       |        | 36 | 18 | 20.93 | 20.88 | 20.97 | 22.50 |
|       | 256QAM | 36 | 39 | 21.05 | 20.94 | 21.00 | 22.50 |
|       |        | 75 | 0  | 20.93 | 20.93 | 21.01 | 22.50 |
|       |        | 1  | 0  | 20.85 | 20.99 | 20.90 | 22.50 |
|       |        | 1  | 38 | 21.08 | 20.92 | 21.03 | 22.50 |
|       |        | 1  | 0  | 18675 | 18900 | 19125 |       |
|       |        | 1  | 0  | 20.97 | 20.97 | 20.97 | 22.50 |
|       |        | 1  | 38 | 21.05 | 21.03 | 20.96 | 22.50 |
|       |        | 1  | 74 | 20.95 | 21.00 | 21.10 | 22.50 |
|       |        | 36 | 0  | 20.91 | 21.04 | 21.04 | 22.50 |
|       |        | 36 | 18 | 20.93 | 20.88 | 20.97 | 22.50 |
|       |        | 36 | 39 | 21.05 | 20.94 | 21.00 | 22.50 |
|       |        | 75 | 0  | 20.93 | 20.93 | 21.01 | 22.50 |
|       |        | 1  | 0  | 20.85 | 20.99 | 20.90 | 22.50 |
|       |        | 1  | 38 | 21.08 | 20.92 | 21.03 | 22.50 |

|           |            | 1       | 74        | 21.04   | 21.02   | 20.90   | 22.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 0         | 20.22   | 20.34   | 20.41   | 22.00   |
|           |            | 36      | 18        | 20.23   | 20.32   | 20.25   | 22.00   |
|           |            | 36      | 39        | 20.47   | 20.47   | 20.24   | 22.00   |
|           |            | 75      | 0         | 20.39   | 20.43   | 20.23   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.20   | 20.38   | 20.42   | 22.00   |
|           |            | 1       | 38        | 20.46   | 20.25   | 20.45   | 22.00   |
|           |            | 1       | 74        | 20.21   | 20.39   | 20.26   | 22.00   |
|           |            | 36      | 0         | 19.33   | 19.45   | 19.40   | 21.00   |
|           |            | 36      | 18        | 19.44   | 19.30   | 19.34   | 21.00   |
|           |            | 36      | 39        | 19.33   | 19.40   | 19.26   | 21.00   |
|           |            | 75      | 0         | 19.24   | 19.39   | 19.22   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.33   | 17.39   | 17.28   | 19.00   |
|           |            | 1       | 38        | 17.39   | 17.36   | 17.42   | 19.00   |
|           |            | 1       | 74        | 17.24   | 17.39   | 17.29   | 19.00   |
|           |            | 36      | 0         | 17.32   | 17.38   | 17.52   | 19.00   |
|           |            | 36      | 18        | 17.26   | 17.39   | 17.20   | 19.00   |
|           |            | 36      | 39        | 17.27   | 17.31   | 17.29   | 19.00   |
|           |            | 75      | 0         | 17.23   | 17.31   | 17.34   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 18700   | 18900   | 19100   | 22.50   |
|           |            | 1       | 50        | 21.58   | 21.63   | 21.55   | 22.50   |
|           |            | 1       | 99        | 21.26   | 21.58   | 21.26   | 22.50   |
|           |            | 1       | 99        | 21.28   | 21.61   | 21.31   | 22.50   |
|           |            | 50      | 0         | 21.43   | 21.60   | 21.48   | 22.50   |
|           |            | 50      | 25        | 21.30   | 21.58   | 21.31   | 22.50   |
|           |            | 50      | 50        | 21.28   | 21.61   | 21.30   | 22.50   |
|           | 16QAM      | 100     | 0         | 21.26   | 21.62   | 21.24   | 22.50   |
|           |            | 1       | 0         | 21.25   | 21.60   | 21.26   | 22.50   |
|           |            | 1       | 50        | 21.31   | 21.59   | 21.30   | 22.50   |
|           |            | 1       | 99        | 21.27   | 21.60   | 21.25   | 22.50   |
|           |            | 50      | 0         | 20.54   | 20.59   | 20.63   | 22.00   |
|           |            | 50      | 25        | 20.59   | 20.66   | 20.65   | 22.00   |
|           |            | 50      | 50        | 20.69   | 20.68   | 20.61   | 22.00   |
|           | 64QAM      | 100     | 0         | 20.64   | 20.66   | 20.61   | 22.00   |
|           |            | 1       | 0         | 20.60   | 20.61   | 20.69   | 22.00   |
|           |            | 1       | 50        | 20.67   | 20.62   | 20.69   | 22.00   |
|           |            | 1       | 99        | 20.60   | 20.59   | 20.60   | 22.00   |
|           |            | 50      | 0         | 19.66   | 19.71   | 19.67   | 21.00   |
|           |            | 50      | 25        | 19.66   | 19.63   | 19.59   | 21.00   |
|           |            | 50      | 50        | 19.71   | 19.67   | 19.66   | 21.00   |
|           | 256QAM     | 100     | 0         | 19.60   | 19.67   | 19.60   | 21.00   |
|           |            | 1       | 0         | 17.60   | 17.67   | 17.66   | 19.00   |
|           |            | 1       | 50        | 17.62   | 17.71   | 17.65   | 19.00   |
|           |            | 1       | 99        | 17.62   | 17.65   | 17.61   | 19.00   |
|           |            | 50      | 0         | 17.59   | 17.64   | 17.73   | 19.00   |
|           |            | 50      | 25        | 17.66   | 17.67   | 17.60   | 19.00   |
|           |            | 50      | 50        | 17.62   | 17.65   | 17.67   | 19.00   |
|           |            | 100     | 0         | 17.63   | 17.68   | 17.73   | 19.00   |

| LTE Band 2 Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 1.4MHz                       | QPSK       | 1       | 0         | 18607                | 18900   | 19193   | 23.50   |
|                              |            | 1       | 2         | 21.85                | 21.73   | 21.73   | 23.50   |
|                              |            | 1       | 5         | 21.90                | 21.79   | 22.07   | 23.50   |
|                              |            | 1       | 5         | 21.91                | 21.94   | 21.80   | 23.50   |
|                              |            | 3       | 0         | 21.68                | 21.72   | 21.82   | 23.50   |
|                              |            | 3       | 2         | 21.90                | 21.91   | 21.92   | 23.50   |
|                              |            | 3       | 3         | 21.90                | 21.72   | 21.85   | 23.50   |
|                              | 16QAM      | 6       | 0         | 21.29                | 21.19   | 21.25   | 23.00   |
|                              |            | 1       | 0         | 21.14                | 21.22   | 21.35   | 23.00   |
|                              |            | 1       | 2         | 21.12                | 21.27   | 21.44   | 23.00   |
|                              |            | 1       | 5         | 21.43                | 21.43   | 21.35   | 23.00   |
|                              |            | 3       | 0         | 21.30                | 21.23   | 21.10   | 23.00   |
|                              |            | 3       | 2         | 21.41                | 21.40   | 21.28   | 23.00   |
|                              |            | 3       | 3         | 21.08                | 21.52   | 21.53   | 23.00   |
|                              | 64QAM      | 6       | 0         | 20.11                | 20.43   | 20.31   | 22.00   |
|                              |            | 1       | 0         | 20.40                | 20.15   | 20.52   | 22.00   |

|           |            | 1       | 2         | 20.36   | 20.26   | 20.35   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 5         | 20.19   | 20.30   | 20.42   | 22.00   |
|           |            | 3       | 0         | 20.42   | 20.31   | 20.31   | 22.00   |
|           |            | 3       | 2         | 20.16   | 20.27   | 20.47   | 22.00   |
|           |            | 3       | 3         | 20.25   | 20.40   | 20.48   | 22.00   |
|           |            | 6       | 0         | 19.26   | 19.40   | 19.06   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.38   | 17.47   | 17.38   | 19.00   |
|           |            | 1       | 2         | 17.16   | 17.50   | 17.45   | 19.00   |
|           |            | 1       | 5         | 17.44   | 17.26   | 17.09   | 19.00   |
|           |            | 3       | 0         | 17.40   | 17.32   | 17.39   | 19.00   |
|           |            | 3       | 2         | 17.46   | 17.34   | 17.33   | 19.00   |
|           |            | 3       | 3         | 17.53   | 17.34   | 17.35   | 19.00   |
|           |            | 6       | 0         | 17.66   | 17.27   | 17.46   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18615   | 18900   | 19185   |         |
| 3MHz      | QPSK       | 1       | 0         | 21.85   | 21.73   | 21.70   | 23.50   |
|           |            | 1       | 7         | 21.92   | 21.77   | 21.99   | 23.50   |
|           |            | 1       | 14        | 21.86   | 21.86   | 21.87   | 23.50   |
|           |            | 8       | 0         | 21.19   | 21.29   | 21.42   | 23.00   |
|           |            | 8       | 4         | 21.40   | 21.36   | 21.43   | 23.00   |
|           |            | 8       | 7         | 21.48   | 21.20   | 21.40   | 23.00   |
|           | 16QAM      | 15      | 0         | 21.25   | 21.19   | 21.25   | 23.00   |
|           |            | 1       | 0         | 21.23   | 21.28   | 21.25   | 23.00   |
|           |            | 1       | 7         | 21.05   | 21.20   | 21.50   | 23.00   |
|           |            | 1       | 14        | 21.39   | 21.43   | 21.43   | 23.00   |
|           |            | 8       | 0         | 20.32   | 20.26   | 20.04   | 22.00   |
|           |            | 8       | 4         | 20.51   | 20.43   | 20.26   | 22.00   |
|           | 64QAM      | 8       | 7         | 20.16   | 20.51   | 20.52   | 22.00   |
|           |            | 15      | 0         | 20.14   | 20.47   | 20.26   | 22.00   |
|           |            | 1       | 0         | 20.40   | 20.25   | 20.46   | 22.00   |
|           |            | 1       | 7         | 20.27   | 20.19   | 20.29   | 22.00   |
|           |            | 1       | 14        | 20.15   | 20.30   | 20.32   | 22.00   |
|           |            | 8       | 0         | 19.38   | 19.26   | 19.23   | 21.00   |
|           | 256QAM     | 8       | 4         | 19.25   | 19.32   | 19.50   | 21.00   |
|           |            | 8       | 7         | 19.25   | 19.44   | 19.42   | 21.00   |
|           |            | 15      | 0         | 19.16   | 19.33   | 19.13   | 21.00   |
|           |            | 1       | 0         | 17.44   | 17.51   | 17.45   | 19.00   |
|           |            | 1       | 7         | 17.11   | 17.46   | 17.49   | 19.00   |
|           |            | 1       | 14        | 17.38   | 17.32   | 17.07   | 19.00   |
| 5MHz      | QPSK       | 8       | 0         | 17.35   | 17.24   | 17.38   | 19.00   |
|           |            | 8       | 4         | 17.39   | 17.29   | 17.41   | 19.00   |
|           |            | 8       | 7         | 17.49   | 17.32   | 17.25   | 19.00   |
|           |            | 15      | 0         | 17.61   | 17.31   | 17.37   | 19.00   |
|           | 16QAM      | 1       | 0         | 21.88   | 21.80   | 21.79   | 23.50   |
|           |            | 1       | 13        | 21.86   | 21.71   | 22.05   | 23.50   |
|           |            | 1       | 24        | 21.88   | 21.90   | 21.90   | 23.50   |
|           |            | 12      | 0         | 21.28   | 21.35   | 21.45   | 23.00   |
|           |            | 12      | 6         | 21.37   | 21.42   | 21.33   | 23.00   |
|           |            | 12      | 13        | 21.44   | 21.26   | 21.41   | 23.00   |
|           | 64QAM      | 25      | 0         | 21.33   | 21.25   | 21.31   | 23.00   |
|           |            | 1       | 0         | 21.32   | 21.37   | 21.22   | 23.00   |
|           |            | 1       | 13        | 21.05   | 21.22   | 21.42   | 23.00   |
|           |            | 1       | 24        | 21.32   | 21.47   | 21.51   | 23.00   |
|           |            | 12      | 0         | 20.22   | 20.34   | 20.11   | 22.00   |
|           |            | 12      | 6         | 20.50   | 20.42   | 20.33   | 22.00   |
|           | 256QAM     | 12      | 13        | 20.11   | 20.48   | 20.47   | 22.00   |
|           |            | 25      | 0         | 20.12   | 20.44   | 20.20   | 22.00   |
|           |            | 1       | 0         | 20.37   | 20.01   | 20.42   | 22.00   |
|           |            | 1       | 13        | 20.26   | 20.09   | 20.29   | 22.00   |
|           |            | 1       | 24        | 20.23   | 20.28   | 20.33   | 22.00   |
|           |            | 12      | 0         | 19.43   | 19.23   | 19.30   | 21.00   |
|           |            | 12      | 6         | 19.30   | 19.32   | 19.42   | 21.00   |
|           |            | 12      | 13        | 19.32   | 19.41   | 19.38   | 21.00   |
|           |            | 25      | 0         | 19.16   | 19.30   | 19.19   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.54   | 17.41   | 17.39   | 19.00   |
|           |            | 1       | 13        | 17.20   | 17.37   | 17.40   | 19.00   |
|           |            | 1       | 24        | 17.30   | 17.40   | 17.17   | 19.00   |
|           |            | 12      | 0         | 17.33   | 17.25   | 17.35   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |

|           |            | 12      | 6         | 17.44   | 17.39   | 17.32   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 13        | 17.41   | 17.28   | 17.29   | 19.00   |
|           |            | 25      | 0         | 17.56   | 17.28   | 17.36   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.78   | 21.81   | 21.80   | 23.50   |
|           |            | 1       | 25        | 21.87   | 21.76   | 21.96   | 23.50   |
|           |            | 1       | 49        | 21.85   | 21.97   | 21.93   | 23.50   |
|           |            | 25      | 0         | 21.33   | 21.40   | 21.40   | 23.00   |
|           |            | 25      | 13        | 21.42   | 21.33   | 21.31   | 23.00   |
|           |            | 25      | 25        | 21.38   | 21.28   | 21.35   | 23.00   |
|           |            | 50      | 0         | 21.26   | 21.35   | 21.28   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.29   | 21.33   | 21.31   | 23.00   |
|           |            | 1       | 25        | 21.09   | 21.24   | 21.35   | 23.00   |
|           |            | 1       | 49        | 21.32   | 21.45   | 21.45   | 23.00   |
|           |            | 25      | 0         | 20.27   | 20.41   | 20.19   | 22.00   |
|           |            | 25      | 13        | 20.49   | 20.51   | 20.26   | 22.00   |
|           |            | 25      | 25        | 20.20   | 20.42   | 20.40   | 22.00   |
|           |            | 50      | 0         | 20.21   | 20.39   | 20.27   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.39   | 20.10   | 20.49   | 22.00   |
|           |            | 1       | 25        | 20.30   | 20.17   | 20.38   | 22.00   |
|           |            | 1       | 49        | 20.32   | 20.18   | 20.31   | 22.00   |
|           |            | 25      | 0         | 19.36   | 19.26   | 19.21   | 21.00   |
|           |            | 25      | 13        | 19.31   | 19.41   | 19.44   | 21.00   |
|           |            | 25      | 25        | 19.38   | 19.47   | 19.37   | 21.00   |
|           |            | 50      | 0         | 19.24   | 19.37   | 19.28   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.48   | 17.40   | 17.33   | 19.00   |
|           |            | 1       | 25        | 17.16   | 17.33   | 17.33   | 19.00   |
|           |            | 1       | 49        | 17.29   | 17.41   | 17.20   | 19.00   |
|           |            | 25      | 0         | 17.31   | 17.35   | 17.36   | 19.00   |
|           |            | 25      | 13        | 17.37   | 17.32   | 17.30   | 19.00   |
|           |            | 25      | 25        | 17.41   | 17.36   | 17.26   | 19.00   |
|           |            | 50      | 0         | 17.52   | 17.23   | 17.40   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.77   | 21.85   | 21.75   | 23.50   |
|           |            | 1       | 38        | 21.85   | 21.72   | 21.89   | 23.50   |
|           |            | 1       | 74        | 21.89   | 21.88   | 21.95   | 23.50   |
|           |            | 36      | 0         | 21.27   | 21.37   | 21.41   | 23.00   |
|           |            | 36      | 18        | 21.41   | 21.38   | 21.32   | 23.00   |
|           |            | 36      | 39        | 21.39   | 21.35   | 21.37   | 23.00   |
|           |            | 75      | 0         | 21.34   | 21.41   | 21.30   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.28   | 21.27   | 21.24   | 23.00   |
|           |            | 1       | 38        | 21.19   | 21.22   | 21.42   | 23.00   |
|           |            | 1       | 74        | 21.31   | 21.48   | 21.40   | 23.00   |
|           |            | 36      | 0         | 20.23   | 20.40   | 20.25   | 22.00   |
|           |            | 36      | 18        | 20.39   | 20.43   | 20.35   | 22.00   |
|           |            | 36      | 39        | 20.28   | 20.48   | 20.31   | 22.00   |
|           |            | 75      | 0         | 20.28   | 20.32   | 20.34   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.30   | 20.20   | 20.40   | 22.00   |
|           |            | 1       | 38        | 20.38   | 20.21   | 20.29   | 22.00   |
|           |            | 1       | 74        | 20.36   | 20.27   | 20.28   | 22.00   |
|           |            | 36      | 0         | 19.30   | 19.34   | 19.31   | 21.00   |
|           |            | 36      | 18        | 19.41   | 19.41   | 19.39   | 21.00   |
|           |            | 36      | 39        | 19.33   | 19.41   | 19.34   | 21.00   |
|           |            | 75      | 0         | 19.31   | 19.36   | 19.37   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.38   | 17.42   | 17.34   | 19.00   |
|           |            | 1       | 38        | 17.17   | 17.33   | 17.25   | 19.00   |
|           |            | 1       | 74        | 17.21   | 17.39   | 17.22   | 19.00   |
|           |            | 36      | 0         | 17.28   | 17.36   | 17.32   | 19.00   |
|           |            | 36      | 18        | 17.36   | 17.42   | 17.29   | 19.00   |
|           |            | 36      | 39        | 17.35   | 17.30   | 17.35   | 19.00   |
|           |            | 75      | 0         | 17.42   | 17.29   | 17.40   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.19   | 22.34   | 22.24   | 23.50   |
|           |            | 1       | 50        | 22.26   | 22.17   | 22.19   | 23.50   |
|           |            | 1       | 99        | 22.23   | 22.21   | 22.30   | 23.50   |
|           |            | 50      | 0         | 21.76   | 21.80   | 21.71   | 23.00   |
|           |            | 50      | 25        | 21.74   | 21.72   | 21.75   | 23.00   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 50  | 50 | 21.73 | 21.75 | 21.73 | 23.00 |
|  |        | 100 | 0  | 21.69 | 21.78 | 21.75 | 23.00 |
|  | 16QAM  | 1   | 0  | 21.32 | 21.36 | 21.31 | 23.00 |
|  |        | 1   | 50 | 21.29 | 21.29 | 21.44 | 23.00 |
|  |        | 1   | 99 | 21.35 | 21.41 | 21.30 | 23.00 |
|  |        | 50  | 0  | 20.28 | 20.34 | 20.33 | 22.00 |
|  |        | 50  | 25 | 20.32 | 20.34 | 20.35 | 22.00 |
|  |        | 50  | 50 | 20.35 | 20.38 | 20.30 | 22.00 |
|  |        | 100 | 0  | 20.32 | 20.37 | 20.32 | 22.00 |
|  | 64QAM  | 1   | 0  | 20.28 | 20.30 | 20.34 | 22.00 |
|  |        | 1   | 50 | 20.38 | 20.26 | 20.34 | 22.00 |
|  |        | 1   | 99 | 20.29 | 20.28 | 20.31 | 22.00 |
|  |        | 50  | 0  | 19.36 | 19.36 | 19.39 | 21.00 |
|  |        | 50  | 25 | 19.33 | 19.34 | 19.30 | 21.00 |
|  |        | 50  | 50 | 19.41 | 19.41 | 19.35 | 21.00 |
|  |        | 100 | 0  | 19.31 | 19.34 | 19.32 | 21.00 |
|  | 256QAM | 1   | 0  | 17.38 | 17.32 | 17.35 | 19.00 |
|  |        | 1   | 50 | 17.27 | 17.34 | 17.33 | 19.00 |
|  |        | 1   | 99 | 17.31 | 17.36 | 17.29 | 19.00 |
|  |        | 50  | 0  | 17.31 | 17.33 | 17.42 | 19.00 |
|  |        | 50  | 25 | 17.33 | 17.34 | 17.28 | 19.00 |
|  |        | 50  | 50 | 17.27 | 17.39 | 17.35 | 19.00 |
|  |        | 100 | 0  | 17.35 | 17.36 | 17.43 | 19.00 |

| LTE Band 2 Head For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                           | QPSK       | 1       | 0         | 19.56                | 19.67   | 19.46   | 20.50   |
|                                  |            | 1       | 2         | 19.44                | 19.26   | 19.24   | 20.50   |
|                                  |            | 1       | 5         | 19.03                | 19.15   | 19.21   | 20.50   |
|                                  |            | 3       | 0         | 19.27                | 19.37   | 19.28   | 20.50   |
|                                  |            | 3       | 2         | 19.17                | 19.71   | 19.23   | 20.50   |
|                                  |            | 3       | 3         | 19.51                | 19.24   | 19.30   | 20.50   |
|                                  |            | 6       | 0         | 19.47                | 19.37   | 19.55   | 20.50   |
|                                  | 16QAM      | 1       | 0         | 19.01                | 19.00   | 18.84   | 20.50   |
|                                  |            | 1       | 2         | 19.06                | 18.73   | 18.93   | 20.50   |
|                                  |            | 1       | 5         | 18.92                | 18.64   | 19.14   | 20.50   |
|                                  |            | 3       | 0         | 19.05                | 19.03   | 18.92   | 20.50   |
|                                  |            | 3       | 2         | 18.95                | 18.79   | 18.92   | 20.50   |
|                                  |            | 3       | 3         | 18.93                | 18.72   | 18.80   | 20.50   |
|                                  |            | 6       | 0         | 18.87                | 19.13   | 19.00   | 20.50   |
|                                  | 64QAM      | 1       | 0         | 18.67                | 18.79   | 18.65   | 20.50   |
|                                  |            | 1       | 2         | 18.84                | 18.88   | 18.96   | 20.50   |
|                                  |            | 1       | 5         | 18.75                | 18.83   | 18.86   | 20.50   |
|                                  |            | 3       | 0         | 18.97                | 18.69   | 19.07   | 20.50   |
|                                  |            | 3       | 2         | 18.88                | 18.87   | 18.62   | 20.50   |
|                                  |            | 3       | 3         | 18.99                | 18.84   | 19.12   | 20.50   |
|                                  |            | 6       | 0         | 19.02                | 18.77   | 18.76   | 20.50   |
|                                  | 256QAM     | 1       | 0         | 17.66                | 17.14   | 17.33   | 19.00   |
|                                  |            | 1       | 2         | 17.17                | 17.27   | 17.39   | 19.00   |
|                                  |            | 1       | 5         | 17.32                | 17.19   | 17.42   | 19.00   |
|                                  |            | 3       | 0         | 17.22                | 17.30   | 17.26   | 19.00   |
|                                  |            | 3       | 2         | 17.47                | 17.50   | 17.06   | 19.00   |
|                                  |            | 3       | 3         | 17.53                | 17.53   | 17.30   | 19.00   |
|                                  |            | 6       | 0         | 17.44                | 17.39   | 17.40   | 19.00   |
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz                             | QPSK       | 1       | 0         | 19.62                | 19.57   | 19.50   | 20.50   |
|                                  |            | 1       | 7         | 19.46                | 19.31   | 19.29   | 20.50   |
|                                  |            | 1       | 14        | 19.07                | 19.11   | 19.25   | 20.50   |
|                                  |            | 8       | 0         | 19.24                | 19.41   | 19.26   | 20.50   |
|                                  |            | 8       | 4         | 19.26                | 19.61   | 19.21   | 20.50   |
|                                  |            | 8       | 7         | 19.41                | 19.30   | 19.33   | 20.50   |
|                                  |            | 15      | 0         | 19.39                | 19.43   | 19.49   | 20.50   |
|                                  | 16QAM      | 1       | 0         | 18.97                | 18.97   | 18.81   | 20.50   |
|                                  |            | 1       | 7         | 18.96                | 18.65   | 19.01   | 20.50   |
|                                  |            | 1       | 14        | 18.83                | 18.66   | 19.08   | 20.50   |
|                                  |            | 8       | 0         | 18.96                | 18.93   | 18.97   | 20.50   |

|  |        |    |    |       |       |       |       |
|--|--------|----|----|-------|-------|-------|-------|
|  |        | 8  | 4  | 18.89 | 18.80 | 18.92 | 20.50 |
|  |        | 8  | 7  | 18.85 | 18.74 | 18.80 | 20.50 |
|  |        | 15 | 0  | 18.85 | 19.10 | 18.97 | 20.50 |
|  |        | 1  | 0  | 18.72 | 18.89 | 18.64 | 20.50 |
|  |        | 1  | 7  | 18.89 | 18.94 | 18.87 | 20.50 |
|  | 64QAM  | 1  | 14 | 18.85 | 18.74 | 18.84 | 20.50 |
|  |        | 8  | 0  | 18.91 | 18.78 | 19.05 | 20.50 |
|  |        | 8  | 4  | 18.85 | 18.79 | 18.72 | 20.50 |
|  |        | 8  | 7  | 18.93 | 18.81 | 19.08 | 20.50 |
|  |        | 15 | 0  | 18.97 | 18.78 | 18.76 | 20.50 |
|  | 256QAM | 1  | 0  | 17.56 | 17.19 | 17.39 | 19.00 |
|  |        | 1  | 7  | 17.27 | 17.31 | 17.32 | 19.00 |
|  |        | 1  | 14 | 17.27 | 17.25 | 17.42 | 19.00 |
|  |        | 8  | 0  | 17.14 | 17.20 | 17.35 | 19.00 |
|  |        | 8  | 4  | 17.46 | 17.40 | 17.10 | 19.00 |
|  |        | 8  | 7  | 17.60 | 17.53 | 17.36 | 19.00 |
|  |        | 15 | 0  | 17.50 | 17.39 | 17.39 | 19.00 |
|  | 64QAM  | 1  | 0  | 19.56 | 19.66 | 19.45 | 20.50 |
|  |        | 1  | 13 | 19.42 | 19.40 | 19.30 | 20.50 |
|  |        | 1  | 24 | 19.13 | 19.07 | 19.22 | 20.50 |
|  |        | 12 | 0  | 19.22 | 19.44 | 19.27 | 20.50 |
|  |        | 12 | 6  | 19.30 | 19.52 | 19.30 | 20.50 |
|  | 16QAM  | 12 | 13 | 19.39 | 19.33 | 19.42 | 20.50 |
|  |        | 25 | 0  | 19.32 | 19.35 | 19.51 | 20.50 |
|  |        | 1  | 0  | 18.92 | 18.87 | 18.81 | 20.50 |
|  |        | 1  | 13 | 18.95 | 18.71 | 18.93 | 20.50 |
|  |        | 1  | 24 | 18.78 | 18.65 | 19.01 | 20.50 |
|  | 64QAM  | 12 | 0  | 18.92 | 18.85 | 19.03 | 20.50 |
|  |        | 12 | 6  | 18.93 | 18.89 | 18.88 | 20.50 |
|  |        | 12 | 13 | 18.85 | 18.79 | 18.87 | 20.50 |
|  |        | 25 | 0  | 18.84 | 19.18 | 19.06 | 20.50 |
|  | 256QAM | 1  | 0  | 18.74 | 18.96 | 18.65 | 20.50 |
|  |        | 1  | 13 | 18.91 | 18.85 | 18.92 | 20.50 |
|  |        | 1  | 24 | 18.82 | 18.76 | 18.84 | 20.50 |
|  |        | 12 | 0  | 18.88 | 18.86 | 19.07 | 20.50 |
|  |        | 12 | 6  | 18.81 | 18.87 | 18.78 | 20.50 |
|  |        | 12 | 13 | 18.85 | 18.85 | 19.12 | 20.50 |
|  |        | 25 | 0  | 19.00 | 18.79 | 18.68 | 20.50 |
|  |        | 1  | 0  | 17.48 | 17.24 | 17.31 | 19.00 |
|  |        | 1  | 13 | 17.36 | 17.36 | 17.33 | 19.00 |
|  |        | 1  | 24 | 17.20 | 17.34 | 17.32 | 19.00 |
|  | 16QAM  | 12 | 0  | 17.20 | 17.29 | 17.29 | 19.00 |
|  |        | 12 | 6  | 17.37 | 17.49 | 17.19 | 19.00 |
|  |        | 12 | 13 | 17.52 | 17.46 | 17.46 | 19.00 |
|  |        | 25 | 0  | 17.49 | 17.43 | 17.39 | 19.00 |
|  |        | 25 | 0  | 17.49 | 17.43 | 17.39 | 19.00 |
|  | 64QAM  | 1  | 0  | 19.49 | 19.57 | 19.36 | 20.50 |
|  |        | 1  | 25 | 19.37 | 19.31 | 19.22 | 20.50 |
|  |        | 1  | 49 | 19.04 | 19.11 | 19.29 | 20.50 |
|  |        | 25 | 0  | 19.23 | 19.46 | 19.20 | 20.50 |
|  |        | 25 | 13 | 19.24 | 19.43 | 19.28 | 20.50 |
|  |        | 25 | 25 | 19.38 | 19.31 | 19.39 | 20.50 |
|  |        | 50 | 0  | 19.22 | 19.35 | 19.45 | 20.50 |
|  | 16QAM  | 1  | 0  | 18.95 | 18.77 | 18.85 | 20.50 |
|  |        | 1  | 25 | 18.96 | 18.71 | 18.89 | 20.50 |
|  |        | 1  | 49 | 18.71 | 18.67 | 19.03 | 20.50 |
|  |        | 25 | 0  | 18.85 | 18.84 | 18.99 | 20.50 |
|  |        | 25 | 13 | 18.90 | 18.81 | 18.80 | 20.50 |
|  | 64QAM  | 25 | 25 | 18.95 | 18.81 | 18.88 | 20.50 |
|  |        | 50 | 0  | 18.92 | 19.13 | 19.01 | 20.50 |
|  |        | 1  | 0  | 18.66 | 18.93 | 18.72 | 20.50 |
|  |        | 1  | 25 | 18.89 | 18.77 | 18.84 | 20.50 |
|  |        | 1  | 49 | 18.85 | 18.77 | 18.83 | 20.50 |
|  |        | 25 | 0  | 18.85 | 18.94 | 19.03 | 20.50 |
|  |        | 25 | 13 | 18.71 | 18.91 | 18.74 | 20.50 |
|  |        | 25 | 25 | 18.82 | 18.87 | 19.07 | 20.50 |
|  |        | 50 | 0  | 18.97 | 18.85 | 18.67 | 20.50 |
|  |        | 50 | 0  | 18.97 | 18.85 | 18.67 | 20.50 |

|           |            | 1       | 0         | 17.43   | 17.34   | 17.26   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 25        | 17.46   | 17.40   | 17.42   | 19.00   |
|           |            | 1       | 49        | 17.30   | 17.39   | 17.34   | 19.00   |
|           |            | 25      | 0         | 17.29   | 17.24   | 17.32   | 19.00   |
|           |            | 25      | 13        | 17.46   | 17.44   | 17.19   | 19.00   |
|           |            | 25      | 25        | 17.42   | 17.47   | 17.45   | 19.00   |
|           |            | 50      | 0         | 17.41   | 17.36   | 17.43   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.44   | 19.51   | 19.31   | 20.50   |
|           |            | 1       | 38        | 19.28   | 19.30   | 19.30   | 20.50   |
|           |            | 1       | 74        | 19.07   | 19.19   | 19.30   | 20.50   |
|           |            | 36      | 0         | 19.19   | 19.44   | 19.26   | 20.50   |
|           |            | 36      | 18        | 19.17   | 19.34   | 19.20   | 20.50   |
|           |            | 36      | 39        | 19.29   | 19.40   | 19.32   | 20.50   |
|           |            | 75      | 0         | 19.20   | 19.27   | 19.35   | 20.50   |
|           | 16QAM      | 1       | 0         | 18.86   | 18.86   | 18.86   | 20.50   |
|           |            | 1       | 38        | 18.89   | 18.78   | 18.83   | 20.50   |
|           |            | 1       | 74        | 18.78   | 18.76   | 18.99   | 20.50   |
|           |            | 36      | 0         | 18.82   | 18.89   | 18.89   | 20.50   |
|           |            | 36      | 18        | 18.81   | 18.77   | 18.80   | 20.50   |
|           |            | 36      | 39        | 18.91   | 18.83   | 18.97   | 20.50   |
|           |            | 75      | 0         | 18.85   | 19.05   | 18.92   | 20.50   |
|           | 64QAM      | 1       | 0         | 18.72   | 18.88   | 18.70   | 20.50   |
|           |            | 1       | 38        | 18.80   | 18.74   | 18.77   | 20.50   |
|           |            | 1       | 74        | 18.77   | 18.80   | 18.78   | 20.50   |
|           |            | 36      | 0         | 18.93   | 19.04   | 18.97   | 20.50   |
|           |            | 36      | 18        | 18.72   | 19.00   | 18.83   | 20.50   |
|           |            | 36      | 39        | 18.92   | 18.88   | 18.97   | 20.50   |
|           |            | 75      | 0         | 18.91   | 18.81   | 18.75   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.35   | 17.37   | 17.30   | 19.00   |
|           |            | 1       | 38        | 17.46   | 17.43   | 17.33   | 19.00   |
|           |            | 1       | 74        | 17.30   | 17.36   | 17.31   | 19.00   |
|           |            | 36      | 0         | 17.31   | 17.29   | 17.40   | 19.00   |
|           |            | 36      | 18        | 17.40   | 17.41   | 17.21   | 19.00   |
|           |            | 36      | 39        | 17.40   | 17.50   | 17.40   | 19.00   |
|           |            | 75      | 0         | 17.43   | 17.43   | 17.41   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.34   | 19.42   | 19.40   | 20.50   |
|           |            | 1       | 50        | 19.24   | 19.20   | 19.23   | 20.50   |
|           |            | 1       | 99        | 19.17   | 19.29   | 19.29   | 20.50   |
|           |            | 50      | 0         | 19.29   | 19.39   | 19.34   | 20.50   |
|           |            | 50      | 25        | 19.20   | 19.31   | 19.26   | 20.50   |
|           |            | 50      | 50        | 19.25   | 19.34   | 19.34   | 20.50   |
|           |            | 100     | 0         | 19.24   | 19.32   | 19.31   | 20.50   |
|           | 16QAM      | 1       | 0         | 18.82   | 18.83   | 18.93   | 20.50   |
|           |            | 1       | 50        | 18.80   | 18.87   | 18.88   | 20.50   |
|           |            | 1       | 99        | 18.88   | 18.86   | 18.99   | 20.50   |
|           |            | 50      | 0         | 18.88   | 18.92   | 18.90   | 20.50   |
|           |            | 50      | 25        | 18.87   | 18.85   | 18.86   | 20.50   |
|           |            | 50      | 50        | 18.95   | 18.88   | 18.90   | 20.50   |
|           |            | 100     | 0         | 18.93   | 18.96   | 18.86   | 20.50   |
|           | 64QAM      | 1       | 0         | 18.77   | 18.82   | 18.76   | 20.50   |
|           |            | 1       | 50        | 18.71   | 18.81   | 18.74   | 20.50   |
|           |            | 1       | 99        | 18.85   | 18.83   | 18.74   | 20.50   |
|           |            | 50      | 0         | 18.88   | 18.96   | 18.93   | 20.50   |
|           |            | 50      | 25        | 18.80   | 18.93   | 18.81   | 20.50   |
|           |            | 50      | 50        | 18.96   | 18.94   | 18.91   | 20.50   |
|           |            | 100     | 0         | 18.84   | 18.91   | 18.83   | 20.50   |
|           | 256QAM     | 1       | 0         | 17.31   | 17.37   | 17.38   | 19.00   |
|           |            | 1       | 50        | 17.40   | 17.41   | 17.33   | 19.00   |
|           |            | 1       | 99        | 17.36   | 17.44   | 17.36   | 19.00   |
|           |            | 50      | 0         | 17.41   | 17.38   | 17.37   | 19.00   |
|           |            | 50      | 25        | 17.31   | 17.39   | 17.31   | 19.00   |
|           |            | 50      | 50        | 17.40   | 17.42   | 17.42   | 19.00   |
|           |            | 100     | 0         | 17.33   | 17.39   | 17.41   | 19.00   |

LTE Band 2 Body worn For Simultaneous

Conducted Power(dBm)

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 18607   | 18900   | 19193   |         |
| 1.4MHz    | QPSK       | 1       | 0         | 19.88   | 20.20   | 19.95   | 21.00   |
|           |            | 1       | 2         | 19.82   | 19.83   | 19.87   | 21.00   |
|           |            | 1       | 5         | 19.64   | 19.85   | 19.81   | 21.00   |
|           |            | 3       | 0         | 19.79   | 20.02   | 20.08   | 21.00   |
|           |            | 3       | 2         | 19.98   | 19.66   | 20.10   | 21.00   |
|           |            | 3       | 3         | 19.77   | 19.73   | 19.91   | 21.00   |
|           | 16QAM      | 6       | 0         | 20.07   | 19.91   | 20.15   | 21.00   |
|           |            | 1       | 0         | 19.25   | 19.51   | 19.54   | 21.00   |
|           |            | 1       | 2         | 19.48   | 19.53   | 19.34   | 21.00   |
|           |            | 1       | 5         | 19.11   | 19.42   | 19.26   | 21.00   |
|           |            | 3       | 0         | 19.37   | 19.70   | 19.40   | 21.00   |
|           |            | 3       | 2         | 19.35   | 19.38   | 19.24   | 21.00   |
|           | 64QAM      | 3       | 3         | 19.48   | 19.48   | 19.66   | 21.00   |
|           |            | 6       | 0         | 19.50   | 19.64   | 19.46   | 21.00   |
|           |            | 1       | 0         | 19.13   | 19.23   | 19.52   | 21.00   |
|           |            | 1       | 2         | 19.33   | 19.34   | 19.24   | 21.00   |
|           |            | 1       | 5         | 19.46   | 19.42   | 19.53   | 21.00   |
|           |            | 3       | 0         | 19.62   | 19.63   | 19.15   | 21.00   |
|           | 256QAM     | 3       | 2         | 19.44   | 19.53   | 19.56   | 21.00   |
|           |            | 3       | 3         | 19.43   | 19.47   | 19.50   | 21.00   |
|           |            | 6       | 0         | 19.64   | 19.51   | 19.62   | 21.00   |
|           |            | 1       | 0         | 17.07   | 17.47   | 17.39   | 19.00   |
|           |            | 1       | 2         | 17.42   | 17.40   | 17.59   | 19.00   |
|           |            | 1       | 5         | 17.40   | 17.36   | 17.40   | 19.00   |
| 3MHz      | QPSK       | 3       | 0         | 17.08   | 17.49   | 17.53   | 19.00   |
|           |            | 3       | 2         | 17.38   | 17.52   | 17.55   | 19.00   |
|           |            | 3       | 3         | 17.44   | 17.44   | 17.41   | 19.00   |
|           |            | 6       | 0         | 17.50   | 17.48   | 17.36   | 19.00   |
|           | 16QAM      | 1       | 0         | 18.615  | 18.900  | 19.185  | 21.00   |
|           |            | 1       | 7         | 19.90   | 20.13   | 19.86   | 21.00   |
|           |            | 1       | 14        | 19.72   | 19.78   | 19.90   | 21.00   |
|           |            | 8       | 0         | 19.68   | 19.86   | 19.90   | 21.00   |
|           |            | 8       | 4         | 19.85   | 20.04   | 20.00   | 21.00   |
|           |            | 8       | 7         | 19.90   | 19.72   | 20.00   | 21.00   |
|           | 64QAM      | 8       | 0         | 19.75   | 19.64   | 19.90   | 21.00   |
|           |            | 15      | 0         | 20.00   | 19.89   | 20.10   | 21.00   |
|           |            | 1       | 0         | 19.18   | 19.43   | 19.46   | 21.00   |
|           |            | 1       | 7         | 19.42   | 19.46   | 19.41   | 21.00   |
|           |            | 1       | 14        | 19.17   | 19.33   | 19.32   | 21.00   |
|           |            | 8       | 0         | 19.39   | 19.63   | 19.46   | 21.00   |
|           | 256QAM     | 8       | 4         | 19.26   | 19.32   | 19.28   | 21.00   |
|           |            | 8       | 7         | 19.56   | 19.44   | 19.62   | 21.00   |
|           |            | 15      | 0         | 19.48   | 19.56   | 19.53   | 21.00   |
|           |            | 1       | 0         | 19.18   | 19.20   | 19.47   | 21.00   |
|           |            | 1       | 7         | 19.24   | 19.41   | 19.31   | 21.00   |
|           |            | 1       | 14        | 19.46   | 19.45   | 19.49   | 21.00   |
| 5MHz      | QPSK       | 8       | 0         | 19.67   | 19.54   | 19.25   | 21.00   |
|           |            | 8       | 4         | 19.45   | 19.52   | 19.54   | 21.00   |
|           |            | 8       | 7         | 19.52   | 19.53   | 19.49   | 21.00   |
|           |            | 15      | 0         | 19.64   | 19.46   | 19.59   | 21.00   |
|           |            | 1       | 0         | 17.17   | 17.41   | 17.37   | 19.00   |
|           |            | 1       | 7         | 17.45   | 17.47   | 17.50   | 19.00   |
|           | 16QAM      | 1       | 14        | 17.50   | 17.45   | 17.48   | 19.00   |
|           |            | 8       | 0         | 17.18   | 17.54   | 17.59   | 19.00   |
|           |            | 8       | 4         | 17.36   | 17.45   | 17.65   | 19.00   |
|           |            | 8       | 7         | 17.46   | 17.45   | 17.47   | 19.00   |
|           |            | 15      | 0         | 17.45   | 17.42   | 17.42   | 19.00   |
|           |            | 1       | 0         | 18.625  | 18.900  | 19.175  | 21.00   |
| 5MHz      | QPSK       | 1       | 0         | 19.88   | 20.09   | 19.88   | 21.00   |
|           |            | 1       | 13        | 19.77   | 19.74   | 19.80   | 21.00   |
|           |            | 1       | 24        | 19.61   | 19.83   | 19.82   | 21.00   |
|           |            | 12      | 0         | 19.90   | 20.02   | 20.00   | 21.00   |
|           |            | 12      | 6         | 19.84   | 19.77   | 19.98   | 21.00   |
|           |            | 12      | 13        | 19.81   | 19.72   | 19.87   | 21.00   |
|           |            | 25      | 0         | 19.98   | 19.98   | 20.01   | 21.00   |

|           | 16QAM      | 1       | 0         | 19.28   | 19.41   | 19.45   | 21.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 19.33   | 19.39   | 19.34   | 21.00   |
|           |            | 1       | 24        | 19.21   | 19.36   | 19.29   | 21.00   |
|           |            | 12      | 0         | 19.38   | 19.53   | 19.38   | 21.00   |
|           |            | 12      | 6         | 19.25   | 19.29   | 19.20   | 21.00   |
|           |            | 12      | 13        | 19.49   | 19.51   | 19.58   | 21.00   |
|           |            | 25      | 0         | 19.57   | 19.52   | 19.54   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.27   | 19.28   | 19.39   | 21.00   |
|           |            | 1       | 13        | 19.33   | 19.36   | 19.36   | 21.00   |
|           |            | 1       | 24        | 19.42   | 19.44   | 19.54   | 21.00   |
|           |            | 12      | 0         | 19.59   | 19.53   | 19.22   | 21.00   |
|           |            | 12      | 6         | 19.44   | 19.47   | 19.57   | 21.00   |
|           |            | 12      | 13        | 19.43   | 19.56   | 19.55   | 21.00   |
|           |            | 25      | 0         | 19.57   | 19.36   | 19.50   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.18   | 17.34   | 17.37   | 19.00   |
|           |            | 1       | 13        | 17.39   | 17.55   | 17.48   | 19.00   |
|           |            | 1       | 24        | 17.41   | 17.46   | 17.50   | 19.00   |
|           |            | 12      | 0         | 17.25   | 17.46   | 17.58   | 19.00   |
|           |            | 12      | 6         | 17.40   | 17.36   | 17.62   | 19.00   |
|           |            | 12      | 13        | 17.39   | 17.50   | 17.47   | 19.00   |
|           |            | 25      | 0         | 17.49   | 17.36   | 17.47   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.96   | 20.05   | 19.85   | 21.00   |
|           |            | 1       | 25        | 19.75   | 19.77   | 19.81   | 21.00   |
|           |            | 1       | 49        | 19.66   | 19.89   | 19.76   | 21.00   |
|           |            | 25      | 0         | 20.00   | 20.08   | 19.91   | 21.00   |
|           |            | 25      | 13        | 19.79   | 19.84   | 19.99   | 21.00   |
|           |            | 25      | 25        | 19.85   | 19.80   | 19.83   | 21.00   |
|           |            | 50      | 0         | 19.96   | 19.91   | 19.91   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.22   | 19.50   | 19.40   | 21.00   |
|           |            | 1       | 25        | 19.37   | 19.38   | 19.33   | 21.00   |
|           |            | 1       | 49        | 19.23   | 19.45   | 19.21   | 21.00   |
|           |            | 25      | 0         | 19.37   | 19.48   | 19.47   | 21.00   |
|           |            | 25      | 13        | 19.33   | 19.29   | 19.26   | 21.00   |
|           |            | 25      | 25        | 19.48   | 19.44   | 19.61   | 21.00   |
|           |            | 50      | 0         | 19.49   | 19.45   | 19.57   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.26   | 19.25   | 19.37   | 21.00   |
|           |            | 1       | 25        | 19.40   | 19.33   | 19.32   | 21.00   |
|           |            | 1       | 49        | 19.49   | 19.41   | 19.56   | 21.00   |
|           |            | 25      | 0         | 19.53   | 19.44   | 19.26   | 21.00   |
|           |            | 25      | 13        | 19.54   | 19.38   | 19.49   | 21.00   |
|           |            | 25      | 25        | 19.49   | 19.46   | 19.48   | 21.00   |
|           |            | 50      | 0         | 19.53   | 19.38   | 19.44   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.25   | 17.31   | 17.40   | 19.00   |
|           |            | 1       | 25        | 17.42   | 17.56   | 17.47   | 19.00   |
|           |            | 1       | 49        | 17.47   | 17.43   | 17.40   | 19.00   |
|           |            | 25      | 0         | 17.34   | 17.39   | 17.51   | 19.00   |
|           |            | 25      | 13        | 17.45   | 17.33   | 17.62   | 19.00   |
|           |            | 25      | 25        | 17.43   | 17.60   | 17.49   | 19.00   |
|           |            | 50      | 0         | 17.53   | 17.40   | 17.41   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.91   | 20.02   | 19.81   | 21.00   |
|           |            | 1       | 38        | 19.77   | 19.68   | 19.72   | 21.00   |
|           |            | 1       | 74        | 19.75   | 19.95   | 19.83   | 21.00   |
|           |            | 36      | 0         | 19.95   | 20.08   | 19.82   | 21.00   |
|           |            | 36      | 18        | 19.80   | 19.75   | 19.94   | 21.00   |
|           |            | 36      | 39        | 19.88   | 19.85   | 19.76   | 21.00   |
|           |            | 75      | 0         | 19.93   | 19.91   | 19.85   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.22   | 19.46   | 19.46   | 21.00   |
|           |            | 1       | 38        | 19.42   | 19.39   | 19.35   | 21.00   |
|           |            | 1       | 74        | 19.31   | 19.44   | 19.28   | 21.00   |
|           |            | 36      | 0         | 19.46   | 19.42   | 19.39   | 21.00   |
|           |            | 36      | 18        | 19.33   | 19.35   | 19.34   | 21.00   |
|           |            | 36      | 39        | 19.40   | 19.36   | 19.51   | 21.00   |
|           |            | 75      | 0         | 19.41   | 19.48   | 19.62   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.35   | 19.34   | 19.35   | 21.00   |
|           |            | 1       | 38        | 19.33   | 19.33   | 19.32   | 21.00   |
|           |            | 1       | 74        | 19.43   | 19.44   | 19.48   | 21.00   |

|           |            | 36      | 0         | 19.54            | 19.49            | 19.35            | 21.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 36      | 18        | 19.44            | 19.44            | 19.52            | 21.00   |
|           |            | 36      | 39        | 19.47            | 19.49            | 19.42            | 21.00   |
|           |            | 75      | 0         | 19.46            | 19.31            | 19.36            | 21.00   |
|           | 256QAM     | 1       | 0         | 17.33            | 17.40            | 17.32            | 19.00   |
|           |            | 1       | 38        | 17.48            | 17.49            | 17.43            | 19.00   |
|           |            | 1       | 74        | 17.41            | 17.48            | 17.50            | 19.00   |
|           |            | 36      | 0         | 17.35            | 17.39            | 17.56            | 19.00   |
|           |            | 36      | 18        | 17.46            | 17.40            | 17.56            | 19.00   |
|           |            | 36      | 39        | 17.42            | 17.58            | 17.47            | 19.00   |
|           |            | 75      | 0         | 17.48            | 17.40            | 17.42            | 19.00   |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>18700 | Channel<br>18900 | Channel<br>19100 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 19.89            | 20.02            | 19.90            | 21.00   |
|           |            | 1       | 50        | 19.68            | 19.69            | 19.75            | 21.00   |
|           |            | 1       | 99        | 19.76            | 19.89            | 19.80            | 21.00   |
|           |            | 50      | 0         | 19.88            | 19.99            | 19.88            | 21.00   |
|           |            | 50      | 25        | 19.87            | 19.83            | 19.89            | 21.00   |
|           |            | 50      | 50        | 19.89            | 19.89            | 19.84            | 21.00   |
|           | 16QAM      | 100     | 0         | 19.88            | 19.88            | 19.90            | 21.00   |
|           |            | 1       | 0         | 19.32            | 19.37            | 19.39            | 21.00   |
|           |            | 1       | 50        | 19.44            | 19.43            | 19.43            | 21.00   |
|           |            | 1       | 99        | 19.32            | 19.34            | 19.38            | 21.00   |
|           |            | 50      | 0         | 19.38            | 19.42            | 19.38            | 21.00   |
|           |            | 50      | 25        | 19.38            | 19.34            | 19.43            | 21.00   |
|           | 64QAM      | 50      | 50        | 19.42            | 19.46            | 19.45            | 21.00   |
|           |            | 100     | 0         | 19.49            | 19.53            | 19.52            | 21.00   |
|           |            | 1       | 0         | 19.39            | 19.41            | 19.27            | 21.00   |
|           |            | 1       | 50        | 19.40            | 19.31            | 19.40            | 21.00   |
|           |            | 1       | 99        | 19.43            | 19.36            | 19.42            | 21.00   |
|           |            | 50      | 0         | 19.47            | 19.41            | 19.43            | 21.00   |
|           | 256QAM     | 50      | 25        | 19.46            | 19.42            | 19.46            | 21.00   |
|           |            | 50      | 50        | 19.50            | 19.53            | 19.52            | 21.00   |
|           |            | 100     | 0         | 19.47            | 19.38            | 19.43            | 21.00   |
|           |            | 1       | 0         | 17.41            | 17.41            | 17.33            | 19.00   |
|           |            | 1       | 50        | 17.43            | 17.42            | 17.38            | 19.00   |
|           |            | 1       | 99        | 17.41            | 17.53            | 17.48            | 19.00   |
|           |            | 50      | 0         | 17.34            | 17.36            | 17.48            | 19.00   |
|           |            | 50      | 25        | 17.36            | 17.38            | 17.49            | 19.00   |
|           |            | 50      | 50        | 17.47            | 17.49            | 17.48            | 19.00   |
|           |            | 100     | 0         | 17.45            | 17.40            | 17.37            | 19.00   |

| LTE Band 4 full power/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |                  |                  |         |
|-----------------------------------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth                               | Modulation | RB size | RB offset | Channel<br>19957     | Channel<br>20175 | Channel<br>20393 | Tune up |
| 1.4MHz                                  | QPSK       | 1       | 0         | 23.26                | 23.25            | 23.29            | 25.00   |
|                                         |            | 1       | 2         | 23.23                | 23.27            | 23.28            | 25.00   |
|                                         |            | 1       | 5         | 23.23                | 23.15            | 23.12            | 25.00   |
|                                         |            | 3       | 0         | 23.18                | 23.11            | 23.13            | 25.00   |
|                                         |            | 3       | 2         | 23.10                | 23.20            | 23.21            | 25.00   |
|                                         |            | 3       | 3         | 23.35                | 23.39            | 23.40            | 25.00   |
|                                         | 16QAM      | 6       | 0         | 22.10                | 22.14            | 22.09            | 24.00   |
|                                         |            | 1       | 0         | 22.20                | 22.22            | 22.26            | 24.00   |
|                                         |            | 1       | 2         | 22.14                | 22.06            | 22.13            | 24.00   |
|                                         |            | 1       | 5         | 22.43                | 22.35            | 22.31            | 24.00   |
|                                         |            | 3       | 0         | 22.42                | 22.41            | 22.31            | 24.00   |
|                                         |            | 3       | 2         | 22.38                | 22.43            | 22.42            | 24.00   |
|                                         | 64QAM      | 3       | 3         | 22.30                | 22.24            | 22.25            | 24.00   |
|                                         |            | 6       | 0         | 21.40                | 21.30            | 21.32            | 23.00   |
|                                         |            | 1       | 0         | 21.62                | 21.64            | 21.71            | 23.00   |
|                                         |            | 1       | 2         | 21.34                | 21.33            | 21.25            | 23.00   |
|                                         |            | 1       | 5         | 21.46                | 21.39            | 21.35            | 23.00   |
|                                         |            | 3       | 0         | 21.47                | 21.42            | 21.42            | 23.00   |
|                                         | 256QAM     | 3       | 2         | 21.23                | 21.29            | 21.20            | 23.00   |
|                                         |            | 3       | 3         | 21.31                | 21.37            | 21.41            | 23.00   |
|                                         |            | 6       | 0         | 20.07                | 20.13            | 20.10            | 22.00   |
|                                         |            | 1       | 0         | 18.56                | 18.54            | 18.61            | 20.00   |
|                                         |            | 1       | 2         | 18.38                | 18.31            | 18.36            | 20.00   |

|           |            | 1       | 5         | 18.49   | 18.45   | 18.40   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 0         | 18.50   | 18.44   | 18.34   | 20.00   |
|           |            | 3       | 2         | 18.39   | 18.31   | 18.36   | 20.00   |
|           |            | 3       | 3         | 18.01   | 18.10   | 18.12   | 20.00   |
|           |            | 6       | 0         | 18.34   | 18.25   | 18.31   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19965   | 20175   | 20385   |         |
| 3MHz      | QPSK       | 1       | 0         | 23.26   | 23.32   | 23.29   | 25.00   |
|           |            | 1       | 7         | 23.34   | 23.27   | 23.22   | 25.00   |
|           |            | 1       | 14        | 23.17   | 23.24   | 23.16   | 25.00   |
|           |            | 8       | 0         | 22.20   | 22.19   | 22.21   | 24.00   |
|           |            | 8       | 4         | 22.35   | 22.30   | 22.31   | 24.00   |
|           |            | 8       | 7         | 22.34   | 22.40   | 22.48   | 24.00   |
|           | 16QAM      | 15      | 0         | 22.11   | 22.20   | 22.11   | 24.00   |
|           |            | 1       | 0         | 22.30   | 22.32   | 22.41   | 24.00   |
|           |            | 1       | 7         | 22.05   | 22.08   | 22.03   | 24.00   |
|           |            | 1       | 14        | 22.17   | 22.26   | 22.34   | 24.00   |
|           |            | 8       | 0         | 21.38   | 21.46   | 21.42   | 23.00   |
|           |            | 8       | 4         | 21.50   | 21.49   | 21.43   | 23.00   |
|           | 64QAM      | 8       | 7         | 21.43   | 21.33   | 21.31   | 23.00   |
|           |            | 15      | 0         | 21.26   | 21.29   | 21.38   | 23.00   |
|           |            | 1       | 0         | 21.60   | 21.55   | 21.61   | 23.00   |
|           |            | 1       | 7         | 21.39   | 21.36   | 21.45   | 23.00   |
|           |            | 1       | 14        | 21.31   | 21.34   | 21.31   | 23.00   |
|           |            | 8       | 0         | 20.36   | 20.35   | 20.30   | 22.00   |
|           | 256QAM     | 8       | 4         | 20.34   | 20.35   | 20.44   | 22.00   |
|           |            | 8       | 7         | 20.45   | 20.44   | 20.40   | 22.00   |
|           |            | 15      | 0         | 20.08   | 20.13   | 20.11   | 22.00   |
|           |            | 1       | 0         | 18.56   | 18.63   | 18.64   | 20.00   |
|           |            | 1       | 7         | 18.35   | 18.39   | 18.41   | 20.00   |
|           |            | 1       | 14        | 18.41   | 18.36   | 18.35   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.35   | 23.41   | 23.43   | 25.00   |
|           |            | 1       | 13        | 23.36   | 23.35   | 23.33   | 25.00   |
|           |            | 1       | 24        | 23.30   | 23.33   | 23.31   | 25.00   |
|           |            | 12      | 0         | 22.26   | 22.27   | 22.28   | 24.00   |
|           |            | 12      | 6         | 22.22   | 22.32   | 22.33   | 24.00   |
|           |            | 12      | 13        | 22.40   | 22.33   | 22.31   | 24.00   |
|           | 16QAM      | 25      | 0         | 22.19   | 22.24   | 22.33   | 24.00   |
|           |            | 1       | 0         | 22.26   | 22.36   | 22.29   | 24.00   |
|           |            | 1       | 13        | 22.15   | 22.12   | 22.19   | 24.00   |
|           |            | 1       | 24        | 22.27   | 22.35   | 22.31   | 24.00   |
|           |            | 12      | 0         | 21.64   | 21.56   | 21.50   | 23.00   |
|           |            | 12      | 6         | 21.49   | 21.44   | 21.50   | 23.00   |
|           | 64QAM      | 12      | 13        | 21.46   | 21.41   | 21.37   | 23.00   |
|           |            | 25      | 0         | 21.32   | 21.26   | 21.32   | 23.00   |
|           |            | 1       | 0         | 21.52   | 21.50   | 21.52   | 23.00   |
|           |            | 1       | 13        | 21.45   | 21.41   | 21.31   | 23.00   |
|           |            | 1       | 24        | 21.51   | 21.41   | 21.33   | 23.00   |
|           |            | 12      | 0         | 20.30   | 20.38   | 20.43   | 22.00   |
|           | 256QAM     | 12      | 6         | 20.25   | 20.30   | 20.26   | 22.00   |
|           |            | 12      | 13        | 20.44   | 20.41   | 20.36   | 22.00   |
|           |            | 25      | 0         | 20.12   | 20.19   | 20.09   | 22.00   |
|           |            | 1       | 0         | 18.63   | 18.59   | 18.55   | 20.00   |
|           |            | 1       | 13        | 18.34   | 18.34   | 18.33   | 20.00   |
|           |            | 1       | 24        | 18.46   | 18.40   | 18.50   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.49   | 23.42   | 23.52   | 25.00   |
|           |            | 1       | 25        | 23.30   | 23.39   | 23.45   | 25.00   |
|           |            | 1       | 49        | 23.32   | 23.33   | 23.41   | 25.00   |

|           |            | 25      | 0         | 22.19   | 22.19   | 22.21   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 13        | 22.39   | 22.31   | 22.39   | 24.00   |
|           |            | 25      | 25        | 22.44   | 22.42   | 22.48   | 24.00   |
|           |            | 50      | 0         | 22.33   | 22.33   | 22.25   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.30   | 22.37   | 22.35   | 24.00   |
|           |            | 1       | 25        | 22.18   | 22.17   | 22.11   | 24.00   |
|           |            | 1       | 49        | 22.35   | 22.43   | 22.34   | 24.00   |
|           |            | 25      | 0         | 21.55   | 21.46   | 21.50   | 23.00   |
|           |            | 25      | 13        | 21.40   | 21.43   | 21.48   | 23.00   |
|           |            | 25      | 25        | 21.52   | 21.44   | 21.49   | 23.00   |
|           |            | 50      | 0         | 21.28   | 21.24   | 21.21   | 23.00   |
|           |            | 50      | 0         | 21.28   | 21.24   | 21.21   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.54   | 21.45   | 21.47   | 23.00   |
|           |            | 1       | 25        | 21.59   | 21.51   | 21.49   | 23.00   |
|           |            | 1       | 49        | 21.55   | 21.49   | 21.52   | 23.00   |
|           |            | 25      | 0         | 20.31   | 20.30   | 20.21   | 22.00   |
|           |            | 25      | 13        | 20.45   | 20.38   | 20.43   | 22.00   |
|           |            | 25      | 25        | 20.51   | 20.48   | 20.58   | 22.00   |
|           |            | 50      | 0         | 20.17   | 20.13   | 20.04   | 22.00   |
|           |            | 50      | 0         | 20.17   | 20.13   | 20.04   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.50   | 18.53   | 18.52   | 20.00   |
|           |            | 1       | 25        | 18.39   | 18.42   | 18.44   | 20.00   |
|           |            | 1       | 49        | 18.32   | 18.31   | 18.34   | 20.00   |
|           |            | 25      | 0         | 18.41   | 18.46   | 18.54   | 20.00   |
|           |            | 25      | 13        | 18.40   | 18.45   | 18.49   | 20.00   |
|           |            | 25      | 25        | 18.21   | 18.22   | 18.14   | 20.00   |
|           |            | 50      | 0         | 18.14   | 18.20   | 18.15   | 20.00   |
|           |            | 50      | 0         | 18.14   | 18.20   | 18.15   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.38   | 23.39   | 23.37   | 25.00   |
|           |            | 1       | 38        | 23.33   | 23.35   | 23.40   | 25.00   |
|           |            | 1       | 74        | 23.26   | 23.31   | 23.36   | 25.00   |
|           |            | 36      | 0         | 22.38   | 22.28   | 22.29   | 24.00   |
|           |            | 36      | 18        | 22.43   | 22.38   | 22.29   | 24.00   |
|           |            | 36      | 39        | 22.26   | 22.32   | 22.33   | 24.00   |
|           |            | 75      | 0         | 22.30   | 22.39   | 22.41   | 24.00   |
|           |            | 75      | 0         | 22.30   | 22.39   | 22.41   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.49   | 22.43   | 22.36   | 24.00   |
|           |            | 1       | 38        | 22.28   | 22.24   | 22.28   | 24.00   |
|           |            | 1       | 74        | 22.40   | 22.35   | 22.44   | 24.00   |
|           |            | 36      | 0         | 21.45   | 21.42   | 21.49   | 23.00   |
|           |            | 36      | 18        | 21.27   | 21.35   | 21.30   | 23.00   |
|           |            | 36      | 39        | 21.39   | 21.43   | 21.50   | 23.00   |
|           |            | 75      | 0         | 21.20   | 21.22   | 21.22   | 23.00   |
|           |            | 75      | 0         | 21.20   | 21.22   | 21.22   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.43   | 21.44   | 21.48   | 23.00   |
|           |            | 1       | 38        | 21.51   | 21.41   | 21.41   | 23.00   |
|           |            | 1       | 74        | 21.54   | 21.48   | 21.55   | 23.00   |
|           |            | 36      | 0         | 20.27   | 20.37   | 20.45   | 22.00   |
|           |            | 36      | 18        | 20.50   | 20.45   | 20.47   | 22.00   |
|           |            | 36      | 39        | 20.36   | 20.43   | 20.47   | 22.00   |
|           |            | 75      | 0         | 20.27   | 20.21   | 20.11   | 22.00   |
|           |            | 75      | 0         | 20.27   | 20.21   | 20.11   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.47   | 18.43   | 18.34   | 20.00   |
|           |            | 1       | 38        | 18.49   | 18.44   | 18.47   | 20.00   |
|           |            | 1       | 74        | 18.49   | 18.40   | 18.33   | 20.00   |
|           |            | 36      | 0         | 18.41   | 18.46   | 18.42   | 20.00   |
|           |            | 36      | 18        | 18.44   | 18.37   | 18.36   | 20.00   |
|           |            | 36      | 39        | 18.17   | 18.27   | 18.26   | 20.00   |
|           |            | 75      | 0         | 18.20   | 18.25   | 18.16   | 20.00   |
|           |            | 75      | 0         | 18.20   | 18.25   | 18.16   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 20175   | /       |         |
| 20MHz     | QPSK       | 1       | 0         | /       | 23.41   | /       | 25.00   |
|           |            | 1       | 50        | /       | 23.36   | /       | 25.00   |
|           |            | 1       | 99        | /       | 23.33   | /       | 25.00   |
|           |            | 50      | 0         | /       | 22.35   | /       | 24.00   |
|           |            | 50      | 25        | /       | 22.37   | /       | 24.00   |
|           |            | 50      | 50        | /       | 22.39   | /       | 24.00   |
|           |            | 100     | 0         | /       | 22.35   | /       | 24.00   |
|           |            | 100     | 0         | /       | 22.35   | /       | 24.00   |
|           | 16QAM      | 1       | 0         | /       | 22.40   | /       | 24.00   |
|           |            | 1       | 50        | /       | 22.31   | /       | 24.00   |
|           |            | 1       | 99        | /       | 22.34   | /       | 24.00   |
|           |            | 50      | 0         | /       | 21.34   | /       | 23.00   |
|           |            | 50      | 25        | /       | 21.35   | /       | 23.00   |
|           |            | 50      | 50        | /       | 21.47   | /       | 23.00   |

|  |        |     |    |   |       |   |       |
|--|--------|-----|----|---|-------|---|-------|
|  | 64QAM  | 100 | 0  | / | 21.31 | / | 23.00 |
|  |        | 1   | 0  | / | 21.45 | / | 23.00 |
|  |        | 1   | 50 | / | 21.34 | / | 23.00 |
|  |        | 1   | 99 | / | 21.40 | / | 23.00 |
|  |        | 50  | 0  | / | 20.28 | / | 22.00 |
|  |        | 50  | 25 | / | 20.43 | / | 22.00 |
|  |        | 50  | 50 | / | 20.38 | / | 22.00 |
|  |        | 100 | 0  | / | 20.31 | / | 22.00 |
|  | 256QAM | 1   | 0  | / | 18.40 | / | 20.00 |
|  |        | 1   | 50 | / | 18.38 | / | 20.00 |
|  |        | 1   | 99 | / | 18.40 | / | 20.00 |
|  |        | 50  | 0  | / | 18.37 | / | 20.00 |
|  |        | 50  | 25 | / | 18.35 | / | 20.00 |
|  |        | 50  | 50 | / | 18.34 | / | 20.00 |
|  |        | 100 | 0  | / | 18.34 | / | 20.00 |

| LTE Band 4 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 21.34                | 21.43   | 21.37   | 23.00   |
|                 |            | 1       | 2         | 21.30                | 21.40   | 21.40   | 23.00   |
|                 |            | 1       | 5         | 21.10                | 21.14   | 21.07   | 23.00   |
|                 |            | 3       | 0         | 21.28                | 21.23   | 21.27   | 23.00   |
|                 |            | 3       | 2         | 21.25                | 21.31   | 21.29   | 23.00   |
|                 |            | 3       | 3         | 21.25                | 21.28   | 21.30   | 23.00   |
|                 | 16QAM      | 6       | 0         | 21.19                | 21.27   | 21.08   | 23.00   |
|                 |            | 1       | 0         | 21.33                | 21.36   | 21.33   | 23.00   |
|                 |            | 1       | 2         | 21.04                | 21.18   | 21.10   | 23.00   |
|                 |            | 1       | 5         | 21.08                | 21.08   | 21.18   | 23.00   |
|                 |            | 3       | 0         | 21.08                | 21.17   | 21.19   | 23.00   |
|                 |            | 3       | 2         | 21.26                | 21.23   | 21.23   | 23.00   |
|                 | 64QAM      | 3       | 3         | 21.41                | 21.30   | 21.34   | 23.00   |
|                 |            | 6       | 0         | 21.27                | 21.21   | 21.09   | 23.00   |
|                 |            | 1       | 0         | 21.43                | 21.51   | 21.40   | 23.00   |
|                 |            | 1       | 2         | 21.31                | 21.38   | 21.32   | 23.00   |
|                 |            | 1       | 5         | 21.31                | 21.21   | 21.32   | 23.00   |
|                 |            | 3       | 0         | 21.39                | 21.32   | 21.35   | 23.00   |
|                 | 256QAM     | 3       | 2         | 21.30                | 21.33   | 21.14   | 23.00   |
|                 |            | 3       | 3         | 21.37                | 21.42   | 21.47   | 23.00   |
|                 |            | 6       | 0         | 20.35                | 20.19   | 20.17   | 22.00   |
|                 |            | 1       | 0         | 18.42                | 18.34   | 18.34   | 20.00   |
|                 |            | 1       | 2         | 18.26                | 18.32   | 18.20   | 20.00   |
|                 |            | 1       | 5         | 18.26                | 18.31   | 18.26   | 20.00   |
| 3MHz            | QPSK       | 3       | 0         | 18.33                | 18.27   | 18.29   | 20.00   |
|                 |            | 3       | 2         | 18.08                | 18.08   | 18.03   | 20.00   |
|                 |            | 3       | 3         | 18.12                | 18.19   | 18.13   | 20.00   |
|                 |            | 6       | 0         | 18.24                | 18.34   | 18.37   | 20.00   |
|                 | 16QAM      | 1       | 0         | 21.28                | 21.45   | 21.43   | 23.00   |
|                 |            | 1       | 7         | 21.39                | 21.40   | 21.41   | 23.00   |
|                 |            | 1       | 14        | 21.09                | 21.13   | 21.15   | 23.00   |
|                 |            | 8       | 0         | 21.30                | 21.20   | 21.22   | 23.00   |
|                 |            | 8       | 4         | 21.20                | 21.20   | 21.28   | 23.00   |
|                 |            | 8       | 7         | 21.29                | 21.23   | 21.24   | 23.00   |
|                 |            | 15      | 0         | 21.18                | 21.26   | 21.16   | 23.00   |
|                 |            | 1       | 0         | 21.33                | 21.32   | 21.39   | 23.00   |
|                 |            | 1       | 7         | 21.06                | 21.26   | 21.17   | 23.00   |
|                 |            | 1       | 14        | 21.15                | 21.00   | 21.19   | 23.00   |
|                 |            | 8       | 0         | 21.07                | 21.17   | 21.12   | 23.00   |
|                 |            | 8       | 4         | 21.26                | 21.30   | 21.21   | 23.00   |
|                 | 64QAM      | 8       | 7         | 21.29                | 21.31   | 21.29   | 23.00   |
|                 |            | 15      | 0         | 21.24                | 21.26   | 21.19   | 23.00   |
|                 |            | 1       | 0         | 21.41                | 21.39   | 21.41   | 23.00   |
|                 |            | 1       | 7         | 21.33                | 21.33   | 21.33   | 23.00   |
|                 |            | 1       | 14        | 21.33                | 21.23   | 21.28   | 23.00   |
|                 |            | 8       | 0         | 20.14                | 20.17   | 20.15   | 22.00   |
|                 |            | 8       | 4         | 20.46                | 20.38   | 20.44   | 22.00   |

|           | 256QAM     | 8       | 7         | 20.37   | 20.33   | 20.33   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 15      | 0         | 20.20   | 20.11   | 20.21   | 22.00   |
|           |            | 1       | 0         | 18.41   | 18.26   | 18.36   | 20.00   |
|           |            | 1       | 7         | 18.33   | 18.22   | 18.21   | 20.00   |
|           |            | 1       | 14        | 18.18   | 18.30   | 18.23   | 20.00   |
|           |            | 8       | 0         | 18.25   | 18.25   | 18.35   | 20.00   |
|           |            | 8       | 4         | 18.08   | 18.09   | 18.11   | 20.00   |
|           |            | 8       | 7         | 18.10   | 18.09   | 18.06   | 20.00   |
|           |            | 15      | 0         | 18.32   | 18.27   | 18.28   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 5MHz      | QPSK       | 1       | 0         | 19975   | 20175   | 20375   | 23.00   |
|           |            | 1       | 13        | 21.39   | 21.41   | 21.44   | 23.00   |
|           |            | 1       | 24        | 21.38   | 21.32   | 21.39   | 23.00   |
|           |            | 12      | 0         | 21.09   | 21.06   | 21.06   | 23.00   |
|           |            | 12      | 6         | 21.25   | 21.30   | 21.30   | 23.00   |
|           |            | 12      | 13        | 21.21   | 21.29   | 21.28   | 23.00   |
|           | 16QAM      | 12      | 6         | 21.26   | 21.24   | 21.26   | 23.00   |
|           |            | 25      | 0         | 21.26   | 21.23   | 21.07   | 23.00   |
|           |            | 1       | 0         | 21.30   | 21.40   | 21.37   | 23.00   |
|           |            | 1       | 13        | 21.15   | 21.24   | 21.19   | 23.00   |
|           |            | 1       | 24        | 21.15   | 21.13   | 21.13   | 23.00   |
|           |            | 12      | 0         | 21.06   | 21.15   | 21.19   | 23.00   |
|           | 64QAM      | 12      | 6         | 21.22   | 21.26   | 21.21   | 23.00   |
|           |            | 12      | 13        | 21.38   | 21.32   | 21.35   | 23.00   |
|           |            | 25      | 0         | 21.28   | 21.33   | 21.13   | 23.00   |
|           |            | 1       | 0         | 21.33   | 21.37   | 21.40   | 23.00   |
|           |            | 1       | 13        | 21.27   | 21.31   | 21.26   | 23.00   |
|           |            | 1       | 24        | 21.29   | 21.19   | 21.27   | 23.00   |
|           | 256QAM     | 12      | 0         | 20.24   | 20.22   | 20.19   | 22.00   |
|           |            | 12      | 6         | 20.52   | 20.47   | 20.38   | 22.00   |
|           |            | 12      | 13        | 20.30   | 20.32   | 20.37   | 22.00   |
|           |            | 25      | 0         | 20.22   | 20.24   | 20.32   | 22.00   |
|           |            | 1       | 0         | 18.46   | 18.38   | 18.34   | 20.00   |
|           |            | 1       | 13        | 18.37   | 18.26   | 18.15   | 20.00   |
| 10MHz     | QPSK       | 1       | 24        | 18.18   | 18.26   | 18.29   | 20.00   |
|           |            | 12      | 0         | 18.33   | 18.29   | 18.28   | 20.00   |
|           |            | 12      | 6         | 18.15   | 18.13   | 18.10   | 20.00   |
|           |            | 12      | 13        | 18.15   | 18.11   | 18.09   | 20.00   |
|           |            | 25      | 0         | 18.34   | 18.32   | 18.30   | 20.00   |
|           |            | 1       | 0         | 20.00   | 20175   | 20350   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.36   | 21.42   | 21.43   | 23.00   |
|           |            | 1       | 25        | 21.35   | 21.38   | 21.45   | 23.00   |
|           |            | 1       | 49        | 21.12   | 21.18   | 21.12   | 23.00   |
|           |            | 25      | 0         | 21.30   | 21.21   | 21.28   | 23.00   |
|           |            | 25      | 13        | 21.22   | 21.31   | 21.29   | 23.00   |
|           |            | 25      | 25        | 21.28   | 21.17   | 21.28   | 23.00   |
|           | 64QAM      | 50      | 0         | 21.18   | 21.17   | 21.18   | 23.00   |
|           |            | 1       | 0         | 21.34   | 21.38   | 21.39   | 23.00   |
|           |            | 1       | 25        | 21.18   | 21.17   | 21.18   | 23.00   |
|           |            | 1       | 49        | 21.11   | 21.03   | 21.15   | 23.00   |
|           |            | 25      | 0         | 21.01   | 21.06   | 21.10   | 23.00   |
|           |            | 25      | 13        | 21.31   | 21.23   | 21.16   | 23.00   |
|           | 256QAM     | 25      | 25        | 21.40   | 21.29   | 21.31   | 23.00   |
|           |            | 50      | 0         | 21.35   | 21.30   | 21.07   | 23.00   |
|           |            | 1       | 0         | 21.41   | 21.37   | 21.42   | 23.00   |
|           |            | 1       | 25        | 21.21   | 21.24   | 21.33   | 23.00   |
|           |            | 1       | 49        | 21.23   | 21.14   | 21.26   | 23.00   |
|           |            | 25      | 0         | 20.13   | 20.12   | 20.16   | 22.00   |
| Bandwidth | 10MHz      | 25      | 13        | 20.39   | 20.51   | 20.46   | 22.00   |
|           |            | 25      | 25        | 20.42   | 20.40   | 20.25   | 22.00   |
|           |            | 50      | 0         | 20.33   | 20.13   | 20.18   | 22.00   |
|           |            | 1       | 0         | 18.43   | 18.29   | 18.40   | 20.00   |
|           |            | 1       | 25        | 18.30   | 18.22   | 18.19   | 20.00   |
|           |            | 1       | 49        | 18.17   | 18.31   | 18.20   | 20.00   |
|           | 256QAM     | 25      | 0         | 18.31   | 18.29   | 18.31   | 20.00   |
|           |            | 25      | 13        | 18.08   | 18.12   | 18.06   | 20.00   |
|           |            | 25      | 25        | 18.10   | 18.11   | 18.17   | 20.00   |
|           |            | 50      | 0         | 18.32   | 18.28   | 18.32   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |

|                                  |            |         |           | 20025   | 20175   | 20325   |         |
|----------------------------------|------------|---------|-----------|---------|---------|---------|---------|
| 15MHz                            | QPSK       | 1       | 0         | 21.38   | 21.42   | 21.41   | 23.00   |
|                                  |            | 1       | 38        | 21.38   | 21.40   | 21.42   | 23.00   |
|                                  |            | 1       | 74        | 21.15   | 21.17   | 21.15   | 23.00   |
|                                  |            | 36      | 0         | 21.28   | 21.28   | 21.27   | 23.00   |
|                                  |            | 36      | 18        | 21.26   | 21.28   | 21.26   | 23.00   |
|                                  |            | 36      | 39        | 21.32   | 21.27   | 21.28   | 23.00   |
|                                  | 16QAM      | 75      | 0         | 21.23   | 21.24   | 21.15   | 23.00   |
|                                  |            | 1       | 0         | 21.41   | 21.42   | 21.40   | 23.00   |
|                                  |            | 1       | 38        | 21.15   | 21.23   | 21.21   | 23.00   |
|                                  |            | 1       | 74        | 21.15   | 21.11   | 21.19   | 23.00   |
|                                  |            | 36      | 0         | 21.11   | 21.16   | 21.18   | 23.00   |
|                                  |            | 36      | 18        | 21.32   | 21.29   | 21.24   | 23.00   |
|                                  | 64QAM      | 36      | 39        | 21.39   | 21.36   | 21.39   | 23.00   |
|                                  |            | 75      | 0         | 21.31   | 21.30   | 21.18   | 23.00   |
|                                  |            | 1       | 0         | 21.40   | 21.47   | 21.44   | 23.00   |
|                                  |            | 1       | 38        | 21.30   | 21.35   | 21.35   | 23.00   |
|                                  |            | 1       | 74        | 21.33   | 21.25   | 21.30   | 23.00   |
|                                  |            | 36      | 0         | 20.22   | 20.19   | 20.24   | 22.00   |
|                                  | 256QAM     | 36      | 18        | 20.49   | 20.48   | 20.42   | 22.00   |
|                                  |            | 36      | 39        | 20.40   | 20.40   | 20.33   | 22.00   |
|                                  |            | 75      | 0         | 20.31   | 20.21   | 20.28   | 22.00   |
|                                  |            | 1       | 0         | 18.43   | 18.36   | 18.39   | 20.00   |
|                                  |            | 1       | 38        | 18.37   | 18.33   | 18.25   | 20.00   |
|                                  |            | 1       | 74        | 18.23   | 18.37   | 18.31   | 20.00   |
| Bandwidth                        | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|                                  |            |         |           | /       | 20175   | /       |         |
| 20MHz                            | QPSK       | 1       | 0         | /       | 21.48   | /       | 23.00   |
|                                  |            | 1       | 50        | /       | 21.33   | /       | 23.00   |
|                                  |            | 1       | 99        | /       | 21.36   | /       | 23.00   |
|                                  |            | 50      | 0         | /       | 21.31   | /       | 23.00   |
|                                  |            | 50      | 25        | /       | 21.38   | /       | 23.00   |
|                                  |            | 50      | 50        | /       | 21.38   | /       | 23.00   |
|                                  | 16QAM      | 100     | 0         | /       | 21.33   | /       | 23.00   |
|                                  |            | 1       | 0         | /       | 21.43   | /       | 23.00   |
|                                  |            | 1       | 50        | /       | 21.29   | /       | 23.00   |
|                                  |            | 1       | 99        | /       | 21.30   | /       | 23.00   |
|                                  |            | 50      | 0         | /       | 21.35   | /       | 23.00   |
|                                  |            | 50      | 25        | /       | 21.31   | /       | 23.00   |
|                                  | 64QAM      | 50      | 50        | /       | 21.44   | /       | 23.00   |
|                                  |            | 100     | 0         | /       | 21.32   | /       | 23.00   |
|                                  |            | 1       | 0         | /       | 21.45   | /       | 23.00   |
|                                  |            | 1       | 50        | /       | 21.29   | /       | 23.00   |
|                                  |            | 1       | 99        | /       | 21.36   | /       | 23.00   |
|                                  |            | 50      | 0         | /       | 20.26   | /       | 22.00   |
|                                  | 256QAM     | 50      | 25        | /       | 20.45   | /       | 22.00   |
|                                  |            | 50      | 50        | /       | 20.39   | /       | 22.00   |
|                                  |            | 100     | 0         | /       | 20.33   | /       | 22.00   |
|                                  |            | 1       | 0         | /       | 18.41   | /       | 20.00   |
|                                  |            | 1       | 50        | /       | 18.40   | /       | 20.00   |
|                                  |            | 1       | 99        | /       | 18.36   | /       | 20.00   |
| LTE Band 4 Head For Simultaneous | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|                                  |            |         |           | 19957   | 20175   | 20393   |         |
| 1.4MHz                           | QPSK       | 1       | 0         | 18.37   | 18.47   | 18.32   | 20.00   |
|                                  |            | 1       | 2         | 18.48   | 18.33   | 18.40   | 20.00   |
|                                  |            | 1       | 5         | 18.13   | 18.32   | 18.09   | 20.00   |
|                                  |            | 3       | 0         | 18.34   | 18.24   | 18.26   | 20.00   |
|                                  |            | 3       | 2         | 18.40   | 18.31   | 18.13   | 20.00   |
|                                  |            |         |           |         |         |         |         |

| LTE Band 4 Head For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                           | QPSK       | 1       | 0         | 18.37                | 18.47   | 18.32   | 20.00   |
|                                  |            | 1       | 2         | 18.48                | 18.33   | 18.40   | 20.00   |
|                                  |            | 1       | 5         | 18.13                | 18.32   | 18.09   | 20.00   |
|                                  |            | 3       | 0         | 18.34                | 18.24   | 18.26   | 20.00   |
|                                  |            | 3       | 2         | 18.40                | 18.31   | 18.13   | 20.00   |
|                                  |            |         |           |                      |         |         |         |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 3         | 18.38   | 18.26   | 18.24   | 20.00   |
|           |            | 6       | 0         | 18.35   | 18.20   | 18.24   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.48   | 18.47   | 18.39   | 20.00   |
|           |            | 1       | 2         | 18.33   | 18.16   | 18.35   | 20.00   |
|           |            | 1       | 5         | 18.24   | 18.17   | 18.04   | 20.00   |
|           |            | 3       | 0         | 18.15   | 18.14   | 18.29   | 20.00   |
|           |            | 3       | 2         | 18.36   | 18.25   | 18.15   | 20.00   |
|           |            | 3       | 3         | 18.45   | 18.40   | 18.32   | 20.00   |
|           |            | 6       | 0         | 18.18   | 18.28   | 18.35   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.48   | 18.41   | 18.33   | 20.00   |
|           |            | 1       | 2         | 18.39   | 18.31   | 18.24   | 20.00   |
|           |            | 1       | 5         | 18.26   | 18.30   | 18.22   | 20.00   |
|           |            | 3       | 0         | 18.15   | 18.15   | 18.25   | 20.00   |
|           |            | 3       | 2         | 18.37   | 18.33   | 18.47   | 20.00   |
|           |            | 3       | 3         | 18.35   | 18.39   | 18.28   | 20.00   |
|           |            | 6       | 0         | 18.36   | 18.08   | 18.21   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.25   | 18.30   | 18.24   | 20.00   |
|           |            | 1       | 2         | 18.23   | 18.24   | 18.17   | 20.00   |
|           |            | 1       | 5         | 18.37   | 18.35   | 18.36   | 20.00   |
|           |            | 3       | 0         | 18.19   | 18.25   | 18.15   | 20.00   |
|           |            | 3       | 2         | 18.29   | 18.39   | 18.44   | 20.00   |
|           |            | 3       | 3         | 18.22   | 18.22   | 18.17   | 20.00   |
|           |            | 6       | 0         | 18.51   | 18.50   | 18.50   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19965   | 20175   | 20385   |         |
| 3MHz      | QPSK       | 1       | 0         | 18.49   | 18.49   | 18.42   | 20.00   |
|           |            | 1       | 7         | 18.46   | 18.38   | 18.40   | 20.00   |
|           |            | 1       | 14        | 18.21   | 18.22   | 18.14   | 20.00   |
|           |            | 8       | 0         | 18.32   | 18.33   | 18.29   | 20.00   |
|           |            | 8       | 4         | 18.37   | 18.25   | 18.21   | 20.00   |
|           |            | 8       | 7         | 18.41   | 18.38   | 18.33   | 20.00   |
|           |            | 15      | 0         | 18.39   | 18.30   | 18.32   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.51   | 18.42   | 18.37   | 20.00   |
|           |            | 1       | 7         | 18.30   | 18.23   | 18.38   | 20.00   |
|           |            | 1       | 14        | 18.19   | 18.16   | 18.05   | 20.00   |
|           |            | 8       | 0         | 18.12   | 18.13   | 18.21   | 20.00   |
|           |            | 8       | 4         | 18.40   | 18.33   | 18.17   | 20.00   |
|           |            | 8       | 7         | 18.44   | 18.44   | 18.37   | 20.00   |
|           |            | 15      | 0         | 18.24   | 18.33   | 18.40   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.42   | 18.48   | 18.36   | 20.00   |
|           |            | 1       | 7         | 18.37   | 18.23   | 18.24   | 20.00   |
|           |            | 1       | 14        | 18.32   | 18.19   | 18.21   | 20.00   |
|           |            | 8       | 0         | 18.13   | 18.12   | 18.27   | 20.00   |
|           |            | 8       | 4         | 18.41   | 18.34   | 18.39   | 20.00   |
|           |            | 8       | 7         | 18.30   | 18.34   | 18.34   | 20.00   |
|           |            | 15      | 0         | 18.28   | 18.15   | 18.35   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.35   | 18.37   | 18.34   | 20.00   |
|           |            | 1       | 7         | 18.39   | 18.30   | 18.30   | 20.00   |
|           |            | 1       | 14        | 18.25   | 18.34   | 18.27   | 20.00   |
|           |            | 8       | 0         | 18.27   | 18.20   | 18.29   | 20.00   |
|           |            | 8       | 4         | 18.42   | 18.36   | 18.45   | 20.00   |
|           |            | 8       | 7         | 18.34   | 18.24   | 18.22   | 20.00   |
|           |            | 15      | 0         | 18.64   | 18.56   | 18.49   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 18.46   | 18.48   | 18.36   | 20.00   |
|           |            | 1       | 13        | 18.47   | 18.37   | 18.35   | 20.00   |
|           |            | 1       | 24        | 18.11   | 18.34   | 18.13   | 20.00   |
|           |            | 12      | 0         | 18.28   | 18.23   | 18.23   | 20.00   |
|           |            | 12      | 6         | 18.31   | 18.26   | 18.21   | 20.00   |
|           |            | 12      | 13        | 18.44   | 18.34   | 18.33   | 20.00   |
|           |            | 25      | 0         | 18.36   | 18.28   | 18.22   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.48   | 18.36   | 18.38   | 20.00   |
|           |            | 1       | 13        | 18.36   | 18.25   | 18.36   | 20.00   |
|           |            | 1       | 24        | 18.28   | 18.23   | 18.01   | 20.00   |
|           |            | 12      | 0         | 18.13   | 18.18   | 18.31   | 20.00   |
|           |            | 12      | 6         | 18.46   | 18.23   | 18.18   | 20.00   |
|           |            | 12      | 13        | 18.46   | 18.43   | 18.34   | 20.00   |
|           |            | 25      | 0         | 18.28   | 18.22   | 18.33   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.44   | 18.50   | 18.36   | 20.00   |

|           |            | 1       | 13        | 18.31   | 18.25   | 18.26   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 24        | 18.33   | 18.20   | 18.16   | 20.00   |
|           |            | 12      | 0         | 18.11   | 18.23   | 18.22   | 20.00   |
|           |            | 12      | 6         | 18.37   | 18.37   | 18.45   | 20.00   |
|           |            | 12      | 13        | 18.32   | 18.29   | 18.31   | 20.00   |
|           |            | 25      | 0         | 18.32   | 18.04   | 18.21   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.50   | 18.42   | 18.52   | 20.00   |
|           |            | 1       | 13        | 18.30   | 18.36   | 18.34   | 20.00   |
|           |            | 1       | 24        | 18.37   | 18.39   | 18.48   | 20.00   |
|           |            | 12      | 0         | 18.37   | 18.28   | 18.27   | 20.00   |
|           |            | 12      | 6         | 18.25   | 18.34   | 18.33   | 20.00   |
|           |            | 12      | 13        | 18.16   | 18.19   | 18.28   | 20.00   |
|           |            | 25      | 0         | 18.55   | 18.46   | 18.39   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 18.43   | 18.48   | 18.45   | 20.00   |
|           |            | 1       | 25        | 18.41   | 18.42   | 18.45   | 20.00   |
|           |            | 1       | 49        | 18.10   | 18.21   | 18.11   | 20.00   |
|           |            | 25      | 0         | 18.33   | 18.25   | 18.28   | 20.00   |
|           |            | 25      | 13        | 18.35   | 18.26   | 18.25   | 20.00   |
|           |            | 25      | 25        | 18.36   | 18.29   | 18.29   | 20.00   |
|           | 16QAM      | 50      | 0         | 18.32   | 18.31   | 18.27   | 20.00   |
|           |            | 1       | 0         | 18.37   | 18.45   | 18.40   | 20.00   |
|           |            | 1       | 25        | 18.37   | 18.21   | 18.37   | 20.00   |
|           |            | 1       | 49        | 18.21   | 18.12   | 18.00   | 20.00   |
|           |            | 25      | 0         | 18.22   | 18.25   | 18.26   | 20.00   |
|           |            | 25      | 13        | 18.43   | 18.27   | 18.22   | 20.00   |
|           | 64QAM      | 25      | 25        | 18.48   | 18.45   | 18.43   | 20.00   |
|           |            | 50      | 0         | 18.23   | 18.25   | 18.29   | 20.00   |
|           |            | 1       | 0         | 18.48   | 18.40   | 18.32   | 20.00   |
|           |            | 1       | 25        | 18.37   | 18.31   | 18.27   | 20.00   |
|           |            | 1       | 49        | 18.31   | 18.20   | 18.16   | 20.00   |
|           |            | 25      | 0         | 18.19   | 18.14   | 18.21   | 20.00   |
|           | 256QAM     | 25      | 13        | 18.40   | 18.40   | 18.42   | 20.00   |
|           |            | 25      | 25        | 18.35   | 18.30   | 18.24   | 20.00   |
|           |            | 50      | 0         | 18.28   | 18.16   | 18.26   | 20.00   |
|           |            | 1       | 0         | 18.53   | 18.50   | 18.58   | 20.00   |
|           |            | 1       | 25        | 18.31   | 18.36   | 18.28   | 20.00   |
|           |            | 1       | 49        | 18.42   | 18.44   | 18.37   | 20.00   |
| 15MHz     | QPSK       | 25      | 0         | 18.34   | 18.34   | 18.43   | 20.00   |
|           |            | 25      | 13        | 18.28   | 18.33   | 18.27   | 20.00   |
|           |            | 25      | 25        | 18.13   | 18.14   | 18.23   | 20.00   |
|           |            | 50      | 0         | 18.41   | 18.50   | 18.45   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.50   | 18.49   | 18.46   | 20.00   |
|           |            | 1       | 38        | 18.50   | 18.47   | 18.48   | 20.00   |
|           |            | 1       | 74        | 18.25   | 18.35   | 18.18   | 20.00   |
|           |            | 36      | 0         | 18.42   | 18.38   | 18.32   | 20.00   |
|           |            | 36      | 18        | 18.42   | 18.33   | 18.27   | 20.00   |
|           |            | 36      | 39        | 18.50   | 18.40   | 18.35   | 20.00   |
|           | 64QAM      | 75      | 0         | 18.43   | 18.33   | 18.37   | 20.00   |
|           |            | 1       | 0         | 18.51   | 18.49   | 18.50   | 20.00   |
|           |            | 1       | 38        | 18.41   | 18.30   | 18.39   | 20.00   |
|           |            | 1       | 74        | 18.31   | 18.26   | 18.11   | 20.00   |
|           |            | 36      | 0         | 18.24   | 18.28   | 18.35   | 20.00   |
|           |            | 36      | 18        | 18.47   | 18.35   | 18.23   | 20.00   |
|           | 256QAM     | 36      | 39        | 18.52   | 18.50   | 18.44   | 20.00   |
|           |            | 75      | 0         | 18.32   | 18.37   | 18.40   | 20.00   |
|           |            | 1       | 0         | 18.51   | 18.52   | 18.40   | 20.00   |
|           |            | 1       | 38        | 18.42   | 18.35   | 18.34   | 20.00   |
|           |            | 1       | 74        | 18.34   | 18.30   | 18.30   | 20.00   |
|           |            | 36      | 0         | 18.20   | 18.23   | 18.33   | 20.00   |
|           |            | 36      | 18        | 18.51   | 18.47   | 18.49   | 20.00   |
|           |            | 36      | 39        | 18.41   | 18.43   | 18.37   | 20.00   |
|           |            | 75      | 0         | 18.36   | 18.17   | 18.35   | 20.00   |
|           |            | 1       | 0         | 18.47   | 18.50   | 18.44   | 20.00   |
|           |            | 1       | 38        | 18.41   | 18.37   | 18.46   | 20.00   |
|           |            | 1       | 74        | 18.35   | 18.37   | 18.27   | 20.00   |
|           |            | 36      | 0         | 18.26   | 18.36   | 18.31   | 20.00   |
|           |            |         |           |         |         |         |         |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | 36      | 18        | 18.26   | 18.23   | 18.14   | 20.00   |
|           |            | 36      | 39        | 18.28   | 18.24   | 18.19   | 20.00   |
| Bandwidth | Modulation | 75      | 0         | 18.52   | 18.44   | 18.44   | 20.00   |
|           |            | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | /       | 20175   | /       | 20.00   |
|           |            | 1       | 50        | /       | 18.54   | /       | 20.00   |
|           |            | 1       | 99        | /       | 18.40   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.39   | /       | 20.00   |
|           |            | 50      | 25        | /       | 18.33   | /       | 20.00   |
|           |            | 50      | 50        | /       | 18.42   | /       | 20.00   |
|           |            | 100     | 0         | /       | 18.39   | /       | 20.00   |
|           | 16QAM      | 1       | 0         | /       | 18.39   | /       | 20.00   |
|           |            | 1       | 50        | /       | 18.51   | /       | 20.00   |
|           |            | 1       | 99        | /       | 18.36   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.30   | /       | 20.00   |
|           |            | 50      | 25        | /       | 18.38   | /       | 20.00   |
|           |            | 50      | 50        | /       | 18.40   | /       | 20.00   |
|           |            | 100     | 0         | /       | 18.46   | /       | 20.00   |
|           | 64QAM      | 1       | 0         | /       | 18.29   | /       | 20.00   |
|           |            | 1       | 50        | /       | 18.45   | /       | 20.00   |
|           |            | 1       | 99        | /       | 18.35   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.37   | /       | 20.00   |
|           |            | 50      | 25        | /       | 18.30   | /       | 20.00   |
|           |            | 50      | 50        | /       | 18.44   | /       | 20.00   |
|           |            | 100     | 0         | /       | 18.49   | /       | 20.00   |
|           | 256QAM     | 1       | 0         | /       | 18.41   | /       | 20.00   |
|           |            | 1       | 50        | /       | 18.41   | /       | 20.00   |
|           |            | 1       | 99        | /       | 18.40   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.36   | /       | 20.00   |
|           |            | 50      | 25        | /       | 18.34   | /       | 20.00   |
|           |            | 50      | 50        | /       | 18.31   | /       | 20.00   |
|           |            | 100     | 0         | /       | 18.33   | /       | 20.00   |
|           |            | 100     | 0         | /       | 18.35   | /       | 20.00   |

| LTE Band 5 full power/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                         |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                                  | QPSK       | 1       | 0         | 23.91                | 23.88   | 23.78   | 25.00   |
|                                         |            | 1       | 2         | 23.74                | 23.71   | 23.73   | 25.00   |
|                                         |            | 1       | 5         | 23.56                | 23.53   | 23.55   | 25.00   |
|                                         |            | 3       | 0         | 23.70                | 23.70   | 23.77   | 25.00   |
|                                         |            | 3       | 2         | 23.38                | 23.41   | 23.45   | 25.00   |
|                                         |            | 3       | 3         | 23.53                | 23.48   | 23.49   | 25.00   |
|                                         |            | 6       | 0         | 22.63                | 22.66   | 22.62   | 24.00   |
|                                         | 16QAM      | 1       | 0         | 22.73                | 22.83   | 22.83   | 24.00   |
|                                         |            | 1       | 2         | 22.70                | 22.80   | 22.71   | 24.00   |
|                                         |            | 1       | 5         | 22.71                | 22.75   | 22.69   | 24.00   |
|                                         |            | 3       | 0         | 22.52                | 22.42   | 22.42   | 24.00   |
|                                         |            | 3       | 2         | 22.39                | 22.40   | 22.47   | 24.00   |
|                                         |            | 3       | 3         | 22.85                | 22.75   | 22.66   | 24.00   |
|                                         |            | 6       | 0         | 21.78                | 21.72   | 21.72   | 23.00   |
|                                         | 64QAM      | 1       | 0         | 21.38                | 21.47   | 21.55   | 23.00   |
|                                         |            | 1       | 2         | 21.60                | 21.52   | 21.61   | 23.00   |
|                                         |            | 1       | 5         | 21.46                | 21.52   | 21.61   | 23.00   |
|                                         |            | 3       | 0         | 21.62                | 21.64   | 21.56   | 23.00   |
|                                         |            | 3       | 2         | 21.71                | 21.69   | 21.65   | 23.00   |
|                                         |            | 3       | 3         | 21.62                | 21.61   | 21.58   | 23.00   |
|                                         |            | 6       | 0         | 20.78                | 20.75   | 20.79   | 22.00   |
|                                         | 256QAM     | 1       | 0         | 18.73                | 18.66   | 18.59   | 20.00   |
|                                         |            | 1       | 2         | 18.67                | 18.74   | 18.74   | 20.00   |
|                                         |            | 1       | 5         | 18.69                | 18.66   | 18.67   | 20.00   |
|                                         |            | 3       | 0         | 18.67                | 18.67   | 18.73   | 20.00   |
|                                         |            | 3       | 2         | 18.53                | 18.62   | 18.60   | 20.00   |
|                                         |            | 3       | 3         | 18.75                | 18.78   | 18.73   | 20.00   |
|                                         |            | 6       | 0         | 18.68                | 18.62   | 18.68   | 20.00   |
| Bandwidth                               | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                         |            |         |           | 20415                | 20525   | 20635   |         |
| 3MHz                                    | QPSK       | 1       | 0         | 23.79                | 23.80   | 23.88   | 25.00   |

|       |        |    |    |       |       |       |       |
|-------|--------|----|----|-------|-------|-------|-------|
|       |        | 1  | 7  | 23.80 | 23.79 | 23.83 | 25.00 |
|       |        | 1  | 14 | 23.48 | 23.48 | 23.46 | 25.00 |
|       |        | 8  | 0  | 22.69 | 22.72 | 22.75 | 24.00 |
|       |        | 8  | 4  | 22.43 | 22.46 | 22.56 | 24.00 |
|       |        | 8  | 7  | 22.49 | 22.53 | 22.61 | 24.00 |
|       |        | 15 | 0  | 22.64 | 22.71 | 22.73 | 24.00 |
|       | 16QAM  | 1  | 0  | 22.84 | 22.75 | 22.71 | 24.00 |
|       |        | 1  | 7  | 22.81 | 22.74 | 22.72 | 24.00 |
|       |        | 1  | 14 | 22.82 | 22.79 | 22.72 | 24.00 |
|       |        | 8  | 0  | 21.48 | 21.50 | 21.49 | 23.00 |
|       |        | 8  | 4  | 21.42 | 21.50 | 21.56 | 23.00 |
|       |        | 8  | 7  | 21.72 | 21.68 | 21.69 | 23.00 |
|       | 64QAM  | 15 | 0  | 21.77 | 21.69 | 21.79 | 23.00 |
|       |        | 1  | 0  | 21.45 | 21.50 | 21.49 | 23.00 |
|       |        | 1  | 7  | 21.59 | 21.59 | 21.50 | 23.00 |
|       |        | 1  | 14 | 21.55 | 21.46 | 21.41 | 23.00 |
|       |        | 8  | 0  | 20.68 | 20.62 | 20.58 | 22.00 |
|       |        | 8  | 4  | 20.70 | 20.64 | 20.54 | 22.00 |
|       | 256QAM | 8  | 7  | 20.54 | 20.59 | 20.49 | 22.00 |
|       |        | 15 | 0  | 20.80 | 20.70 | 20.73 | 22.00 |
|       |        | 1  | 0  | 18.57 | 18.66 | 18.68 | 20.00 |
|       |        | 1  | 7  | 18.84 | 18.75 | 18.74 | 20.00 |
|       |        | 1  | 14 | 18.60 | 18.66 | 18.61 | 20.00 |
|       |        | 8  | 0  | 18.79 | 18.77 | 18.85 | 20.00 |
| 5MHz  | QPSK   | 8  | 4  | 18.73 | 18.65 | 18.74 | 20.00 |
|       |        | 8  | 7  | 18.69 | 18.69 | 18.60 | 20.00 |
|       |        | 15 | 0  | 18.74 | 18.67 | 18.67 | 20.00 |
|       |        | 1  | 0  | 23.73 | 23.75 | 23.75 | 25.00 |
|       |        | 1  | 13 | 23.67 | 23.73 | 23.75 | 25.00 |
|       |        | 1  | 24 | 23.57 | 23.56 | 23.50 | 25.00 |
|       | 16QAM  | 12 | 0  | 22.70 | 22.66 | 22.60 | 24.00 |
|       |        | 12 | 6  | 22.51 | 22.55 | 22.63 | 24.00 |
|       |        | 12 | 13 | 22.57 | 22.59 | 22.67 | 24.00 |
|       |        | 25 | 0  | 22.68 | 22.62 | 22.54 | 24.00 |
|       |        | 1  | 0  | 22.72 | 22.72 | 22.67 | 24.00 |
|       |        | 1  | 13 | 22.74 | 22.64 | 22.69 | 24.00 |
|       | 64QAM  | 1  | 24 | 22.60 | 22.70 | 22.61 | 24.00 |
|       |        | 12 | 0  | 21.49 | 21.56 | 21.59 | 23.00 |
|       |        | 12 | 6  | 21.53 | 21.55 | 21.50 | 23.00 |
|       |        | 12 | 13 | 21.66 | 21.63 | 21.73 | 23.00 |
|       |        | 25 | 0  | 21.82 | 21.73 | 21.69 | 23.00 |
|       |        | 1  | 0  | 21.66 | 21.56 | 21.48 | 23.00 |
|       | 256QAM | 1  | 13 | 21.57 | 21.64 | 21.54 | 23.00 |
|       |        | 1  | 24 | 21.57 | 21.54 | 21.53 | 23.00 |
|       |        | 12 | 0  | 20.70 | 20.62 | 20.53 | 22.00 |
|       |        | 12 | 6  | 20.64 | 20.69 | 20.70 | 22.00 |
|       |        | 12 | 13 | 20.68 | 20.65 | 20.63 | 22.00 |
|       |        | 25 | 0  | 20.72 | 20.72 | 20.67 | 22.00 |
| 10MHz | QPSK   | 1  | 0  | 18.62 | 18.69 | 18.64 | 20.00 |
|       |        | 1  | 13 | 18.67 | 18.75 | 18.72 | 20.00 |
|       |        | 1  | 24 | 18.74 | 18.68 | 18.71 | 20.00 |
|       |        | 12 | 0  | 18.64 | 18.71 | 18.79 | 20.00 |
|       |        | 12 | 6  | 18.65 | 18.70 | 18.79 | 20.00 |
|       |        | 12 | 13 | 18.57 | 18.62 | 18.60 | 20.00 |
|       | 16QAM  | 25 | 0  | 18.55 | 18.63 | 18.72 | 20.00 |
|       |        | 1  | 0  | /     | 23.76 | /     | 25.00 |
|       |        | 1  | 25 | /     | 23.67 | /     | 25.00 |
|       |        | 1  | 49 | /     | 23.65 | /     | 25.00 |
|       |        | 25 | 0  | /     | 22.66 | /     | 24.00 |
|       |        | 25 | 13 | /     | 22.63 | /     | 24.00 |
|       | 256QAM | 25 | 25 | /     | 22.62 | /     | 24.00 |
|       |        | 50 | 0  | /     | 22.64 | /     | 24.00 |
|       |        | 1  | 0  | /     | 22.63 | /     | 24.00 |
|       |        | 1  | 25 | /     | 22.69 | /     | 24.00 |
|       |        | 1  | 49 | /     | 22.64 | /     | 24.00 |
|       |        | 25 | 0  | /     | 21.62 | /     | 23.00 |

|  |        |    |    |   |       |   |       |
|--|--------|----|----|---|-------|---|-------|
|  |        | 25 | 13 | / | 21.61 | / | 23.00 |
|  |        | 25 | 25 | / | 21.62 | / | 23.00 |
|  |        | 50 | 0  | / | 21.64 | / | 23.00 |
|  | 64QAM  | 1  | 0  | / | 21.66 | / | 23.00 |
|  |        | 1  | 25 | / | 21.67 | / | 23.00 |
|  |        | 1  | 49 | / | 21.62 | / | 23.00 |
|  |        | 25 | 0  | / | 20.61 | / | 22.00 |
|  |        | 25 | 13 | / | 20.64 | / | 22.00 |
|  |        | 25 | 25 | / | 20.64 | / | 22.00 |
|  |        | 50 | 0  | / | 20.62 | / | 22.00 |
|  |        | 1  | 0  | / | 18.68 | / | 20.00 |
|  | 256QAM | 1  | 25 | / | 18.69 | / | 20.00 |
|  |        | 1  | 49 | / | 18.66 | / | 20.00 |
|  |        | 25 | 0  | / | 18.66 | / | 20.00 |
|  |        | 25 | 13 | / | 18.67 | / | 20.00 |
|  |        | 25 | 25 | / | 18.69 | / | 20.00 |
|  |        | 50 | 0  | / | 18.66 | / | 20.00 |

| LTE Band 5 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 21.77                | 21.81   | 21.71   | 23.00   |
|                 |            | 1       | 2         | 21.62                | 21.54   | 21.57   | 23.00   |
|                 |            | 1       | 5         | 21.60                | 21.61   | 21.70   | 23.00   |
|                 |            | 3       | 0         | 21.66                | 21.60   | 21.57   | 23.00   |
|                 |            | 3       | 2         | 21.84                | 21.77   | 21.76   | 23.00   |
|                 |            | 3       | 3         | 21.65                | 21.68   | 21.63   | 23.00   |
|                 | 16QAM      | 6       | 0         | 21.70                | 21.64   | 21.58   | 23.00   |
|                 |            | 1       | 0         | 21.41                | 21.44   | 21.46   | 23.00   |
|                 |            | 1       | 2         | 21.79                | 21.75   | 21.73   | 23.00   |
|                 |            | 1       | 5         | 21.57                | 21.63   | 21.61   | 23.00   |
|                 |            | 3       | 0         | 21.43                | 21.50   | 21.53   | 23.00   |
|                 |            | 3       | 2         | 21.58                | 21.64   | 21.62   | 23.00   |
|                 | 64QAM      | 3       | 3         | 21.79                | 21.72   | 21.68   | 23.00   |
|                 |            | 6       | 0         | 21.76                | 21.76   | 21.70   | 23.00   |
|                 |            | 1       | 0         | 21.62                | 21.57   | 21.60   | 23.00   |
|                 |            | 1       | 2         | 21.59                | 21.62   | 21.70   | 23.00   |
|                 |            | 1       | 5         | 21.66                | 21.74   | 21.75   | 23.00   |
|                 |            | 3       | 0         | 21.81                | 21.76   | 21.75   | 23.00   |
|                 | 256QAM     | 3       | 2         | 21.66                | 21.73   | 21.66   | 23.00   |
|                 |            | 3       | 3         | 21.57                | 21.58   | 21.57   | 23.00   |
|                 |            | 6       | 0         | 20.65                | 20.72   | 20.82   | 22.00   |
|                 |            | 1       | 0         | 18.82                | 18.72   | 18.66   | 20.00   |
|                 |            | 1       | 2         | 18.79                | 18.79   | 18.72   | 20.00   |
|                 |            | 1       | 5         | 18.85                | 18.77   | 18.84   | 20.00   |
|                 |            | 3       | 0         | 18.57                | 18.65   | 18.64   | 20.00   |
|                 |            | 3       | 2         | 18.80                | 18.75   | 18.76   | 20.00   |
| 3MHz            | QPSK       | 3       | 3         | 18.71                | 18.64   | 18.73   | 20.00   |
|                 |            | 6       | 0         | 18.51                | 18.55   | 18.52   | 20.00   |
|                 |            | 1       | 0         | 21.76                | 21.74   | 21.71   | 23.00   |
|                 |            | 1       | 7         | 21.62                | 21.61   | 21.54   | 23.00   |
|                 |            | 1       | 14        | 21.44                | 21.53   | 21.48   | 23.00   |
|                 |            | 8       | 0         | 21.51                | 21.51   | 21.45   | 23.00   |
|                 |            | 8       | 4         | 21.60                | 21.69   | 21.62   | 23.00   |
|                 | 16QAM      | 8       | 7         | 21.70                | 21.61   | 21.67   | 23.00   |
|                 |            | 15      | 0         | 21.58                | 21.62   | 21.52   | 23.00   |
|                 |            | 1       | 0         | 21.52                | 21.53   | 21.49   | 23.00   |
|                 |            | 1       | 7         | 21.76                | 21.71   | 21.80   | 23.00   |
|                 |            | 1       | 14        | 21.51                | 21.54   | 21.64   | 23.00   |
|                 |            | 8       | 0         | 21.44                | 21.46   | 21.56   | 23.00   |
|                 |            | 8       | 4         | 21.76                | 21.73   | 21.65   | 23.00   |
|                 | 64QAM      | 8       | 7         | 21.58                | 21.64   | 21.56   | 23.00   |
|                 |            | 15      | 0         | 21.72                | 21.71   | 21.73   | 23.00   |
|                 |            | 1       | 0         | 21.64                | 21.63   | 21.65   | 23.00   |
|                 |            | 1       | 7         | 21.69                | 21.64   | 21.67   | 23.00   |
|                 |            | 1       | 14        | 21.70                | 21.66   | 21.76   | 23.00   |

|           | 256QAM     | 8       | 0         | 20.73   | 20.82   | 20.82   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 4         | 20.62   | 20.67   | 20.71   | 22.00   |
|           |            | 8       | 7         | 20.52   | 20.58   | 20.64   | 22.00   |
|           |            | 15      | 0         | 20.67   | 20.67   | 20.68   | 22.00   |
|           |            | 1       | 0         | 18.70   | 18.74   | 18.75   | 20.00   |
|           |            | 1       | 7         | 18.74   | 18.70   | 18.68   | 20.00   |
|           |            | 1       | 14        | 18.80   | 18.70   | 18.69   | 20.00   |
|           |            | 8       | 0         | 18.60   | 18.60   | 18.66   | 20.00   |
|           |            | 8       | 4         | 18.59   | 18.68   | 18.72   | 20.00   |
|           |            | 8       | 7         | 18.56   | 18.55   | 18.48   | 20.00   |
|           |            | 15      | 0         | 18.69   | 18.59   | 18.60   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20425   | 20525   | 20625   |         |
| 5MHz      | QPSK       | 1       | 0         | 21.67   | 21.67   | 21.63   | 23.00   |
|           |            | 1       | 13        | 21.51   | 21.59   | 21.57   | 23.00   |
|           |            | 1       | 24        | 21.58   | 21.61   | 21.67   | 23.00   |
|           |            | 12      | 0         | 21.59   | 21.53   | 21.46   | 23.00   |
|           |            | 12      | 6         | 21.70   | 21.71   | 21.62   | 23.00   |
|           |            | 12      | 13        | 21.54   | 21.57   | 21.57   | 23.00   |
|           |            | 25      | 0         | 21.61   | 21.64   | 21.57   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.47   | 21.54   | 21.47   | 23.00   |
|           |            | 1       | 13        | 21.71   | 21.67   | 21.71   | 23.00   |
|           |            | 1       | 24        | 21.66   | 21.64   | 21.63   | 23.00   |
|           |            | 12      | 0         | 21.47   | 21.48   | 21.44   | 23.00   |
|           |            | 12      | 6         | 21.67   | 21.68   | 21.71   | 23.00   |
|           |            | 12      | 13        | 21.54   | 21.55   | 21.65   | 23.00   |
|           |            | 25      | 0         | 21.65   | 21.63   | 21.73   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.59   | 21.55   | 21.46   | 23.00   |
|           |            | 1       | 13        | 21.62   | 21.71   | 21.73   | 23.00   |
|           |            | 1       | 24        | 21.63   | 21.67   | 21.61   | 23.00   |
|           |            | 12      | 0         | 20.64   | 20.72   | 20.68   | 22.00   |
|           |            | 12      | 6         | 20.72   | 20.68   | 20.69   | 22.00   |
|           |            | 12      | 13        | 20.50   | 20.56   | 20.46   | 22.00   |
|           |            | 25      | 0         | 20.51   | 20.61   | 20.57   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.64   | 18.67   | 18.64   | 20.00   |
|           |            | 1       | 13        | 18.78   | 18.79   | 18.75   | 20.00   |
|           |            | 1       | 24        | 18.56   | 18.60   | 18.57   | 20.00   |
|           |            | 12      | 0         | 18.58   | 18.68   | 18.71   | 20.00   |
|           |            | 12      | 6         | 18.73   | 18.75   | 18.73   | 20.00   |
|           |            | 12      | 13        | 18.58   | 18.62   | 18.67   | 20.00   |
|           |            | 25      | 0         | 18.76   | 18.68   | 18.59   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 20525   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 21.73   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.65   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.64   | /       | 23.00   |
|           |            | 25      | 0         | /       | 21.63   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.61   | /       | 23.00   |
|           |            | 25      | 25        | /       | 21.64   | /       | 23.00   |
|           | 16QAM      | 50      | 0         | /       | 21.60   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.63   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.65   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.63   | /       | 23.00   |
|           |            | 25      | 0         | /       | 21.58   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.58   | /       | 23.00   |
|           | 64QAM      | 25      | 25        | /       | 21.64   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.65   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.62   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.63   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.64   | /       | 23.00   |
|           |            | 25      | 0         | /       | 20.62   | /       | 22.00   |
|           | 256QAM     | 25      | 13        | /       | 20.62   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.62   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.64   | /       | 22.00   |
|           |            | 1       | 0         | /       | 18.67   | /       | 20.00   |
|           |            | 1       | 25        | /       | 18.69   | /       | 20.00   |
|           |            | 1       | 49        | /       | 18.66   | /       | 20.00   |
|           |            | 25      | 0         | /       | 18.66   | /       | 20.00   |
|           |            | 25      | 13        | /       | 18.68   | /       | 20.00   |
|           |            | 25      | 25        | /       | 18.66   | /       | 20.00   |

|  |  |    |   |   |       |   |       |
|--|--|----|---|---|-------|---|-------|
|  |  | 50 | 0 | / | 18.67 | / | 20.00 |
|--|--|----|---|---|-------|---|-------|

| LTE Band 5 Head For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                           | QPSK       | 1       | 0         | 18.78                | 18.70   | 18.61   | 20.00   |
|                                  |            | 1       | 2         | 18.59                | 18.61   | 18.54   | 20.00   |
|                                  |            | 1       | 5         | 18.53                | 18.57   | 18.61   | 20.00   |
|                                  |            | 3       | 0         | 18.56                | 18.50   | 18.40   | 20.00   |
|                                  |            | 3       | 2         | 18.61                | 18.62   | 18.61   | 20.00   |
|                                  |            | 3       | 3         | 18.62                | 18.58   | 18.56   | 20.00   |
|                                  |            | 6       | 0         | 18.75                | 18.65   | 18.57   | 20.00   |
|                                  | 16QAM      | 1       | 0         | 18.54                | 18.57   | 18.67   | 20.00   |
|                                  |            | 1       | 2         | 18.76                | 18.76   | 18.82   | 20.00   |
|                                  |            | 1       | 5         | 18.53                | 18.53   | 18.51   | 20.00   |
|                                  |            | 3       | 0         | 18.46                | 18.51   | 18.57   | 20.00   |
|                                  |            | 3       | 2         | 18.67                | 18.72   | 18.72   | 20.00   |
|                                  |            | 3       | 3         | 18.61                | 18.67   | 18.62   | 20.00   |
|                                  |            | 6       | 0         | 18.56                | 18.65   | 18.65   | 20.00   |
|                                  | 64QAM      | 1       | 0         | 18.50                | 18.54   | 18.49   | 20.00   |
|                                  |            | 1       | 2         | 18.66                | 18.70   | 18.67   | 20.00   |
|                                  |            | 1       | 5         | 18.76                | 18.71   | 18.77   | 20.00   |
|                                  |            | 3       | 0         | 18.81                | 18.74   | 18.80   | 20.00   |
|                                  |            | 3       | 2         | 18.62                | 18.63   | 18.59   | 20.00   |
|                                  |            | 3       | 3         | 18.46                | 18.51   | 18.49   | 20.00   |
|                                  |            | 6       | 0         | 18.78                | 18.68   | 18.63   | 20.00   |
|                                  | 256QAM     | 1       | 0         | 18.67                | 18.72   | 18.70   | 20.00   |
|                                  |            | 1       | 2         | 18.80                | 18.70   | 18.75   | 20.00   |
|                                  |            | 1       | 5         | 18.55                | 18.63   | 18.55   | 20.00   |
|                                  |            | 3       | 0         | 18.61                | 18.69   | 18.72   | 20.00   |
|                                  |            | 3       | 2         | 18.53                | 18.60   | 18.62   | 20.00   |
|                                  |            | 3       | 3         | 18.61                | 18.51   | 18.53   | 20.00   |
|                                  |            | 6       | 0         | 18.66                | 18.67   | 18.73   | 20.00   |
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |            |         |           | 20415                | 20525   | 20635   |         |
| 3MHz                             | QPSK       | 1       | 0         | 21.76                | 21.74   | 21.71   | 23.00   |
|                                  |            | 1       | 7         | 21.62                | 21.61   | 21.54   | 23.00   |
|                                  |            | 1       | 14        | 21.44                | 21.53   | 21.48   | 23.00   |
|                                  |            | 8       | 0         | 21.51                | 21.51   | 21.45   | 23.00   |
|                                  |            | 8       | 4         | 21.60                | 21.69   | 21.62   | 23.00   |
|                                  |            | 8       | 7         | 21.70                | 21.61   | 21.67   | 23.00   |
|                                  |            | 15      | 0         | 21.58                | 21.62   | 21.52   | 23.00   |
|                                  | 16QAM      | 1       | 0         | 21.52                | 21.53   | 21.49   | 23.00   |
|                                  |            | 1       | 7         | 21.76                | 21.71   | 21.80   | 23.00   |
|                                  |            | 1       | 14        | 21.51                | 21.54   | 21.64   | 23.00   |
|                                  |            | 8       | 0         | 21.44                | 21.46   | 21.56   | 23.00   |
|                                  |            | 8       | 4         | 21.76                | 21.73   | 21.65   | 23.00   |
|                                  |            | 8       | 7         | 21.58                | 21.64   | 21.56   | 23.00   |
|                                  | 64QAM      | 15      | 0         | 21.72                | 21.71   | 21.73   | 23.00   |
|                                  |            | 1       | 0         | 21.64                | 21.63   | 21.65   | 23.00   |
|                                  |            | 1       | 7         | 21.69                | 21.64   | 21.67   | 23.00   |
|                                  |            | 1       | 14        | 21.70                | 21.66   | 21.76   | 23.00   |
|                                  |            | 8       | 0         | 20.73                | 20.82   | 20.82   | 22.00   |
|                                  |            | 8       | 4         | 20.62                | 20.67   | 20.71   | 22.00   |
|                                  |            | 8       | 7         | 20.52                | 20.58   | 20.64   | 22.00   |
|                                  | 256QAM     | 15      | 0         | 20.67                | 20.67   | 20.68   | 22.00   |
|                                  |            | 1       | 0         | 18.70                | 18.74   | 18.75   | 20.00   |
|                                  |            | 1       | 7         | 18.74                | 18.70   | 18.68   | 20.00   |
|                                  |            | 1       | 14        | 18.80                | 18.70   | 18.69   | 20.00   |
|                                  |            | 8       | 0         | 18.60                | 18.60   | 18.66   | 20.00   |
|                                  |            | 8       | 4         | 18.59                | 18.68   | 18.72   | 20.00   |
|                                  |            | 8       | 7         | 18.56                | 18.55   | 18.48   | 20.00   |
|                                  |            | 15      | 0         | 18.69                | 18.59   | 18.60   | 20.00   |
| Bandwidth                        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |            |         |           | 20425                | 20525   | 20625   |         |
| 5MHz                             | QPSK       | 1       | 0         | 21.67                | 21.67   | 21.63   | 23.00   |
|                                  |            | 1       | 13        | 21.51                | 21.59   | 21.57   | 23.00   |
|                                  |            | 1       | 24        | 21.58                | 21.61   | 21.67   | 23.00   |

|           |            | 12      | 0         | 21.59   | 21.53   | 21.46   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 6         | 21.70   | 21.71   | 21.62   | 23.00   |
|           |            | 12      | 13        | 21.54   | 21.57   | 21.57   | 23.00   |
|           |            | 25      | 0         | 21.61   | 21.64   | 21.57   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.47   | 21.54   | 21.47   | 23.00   |
|           |            | 1       | 13        | 21.71   | 21.67   | 21.71   | 23.00   |
|           |            | 1       | 24        | 21.66   | 21.64   | 21.63   | 23.00   |
|           |            | 12      | 0         | 21.47   | 21.48   | 21.44   | 23.00   |
|           |            | 12      | 6         | 21.67   | 21.68   | 21.71   | 23.00   |
|           |            | 12      | 13        | 21.54   | 21.55   | 21.65   | 23.00   |
|           |            | 25      | 0         | 21.65   | 21.63   | 21.73   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.59   | 21.55   | 21.46   | 23.00   |
|           |            | 1       | 13        | 21.62   | 21.71   | 21.73   | 23.00   |
|           |            | 1       | 24        | 21.63   | 21.67   | 21.61   | 23.00   |
|           |            | 12      | 0         | 20.64   | 20.72   | 20.68   | 22.00   |
|           |            | 12      | 6         | 20.72   | 20.68   | 20.69   | 22.00   |
|           |            | 12      | 13        | 20.50   | 20.56   | 20.46   | 22.00   |
|           | 256QAM     | 25      | 0         | 20.51   | 20.61   | 20.57   | 22.00   |
|           |            | 1       | 0         | 18.64   | 18.67   | 18.64   | 20.00   |
|           |            | 1       | 13        | 18.78   | 18.79   | 18.75   | 20.00   |
|           |            | 1       | 24        | 18.56   | 18.60   | 18.57   | 20.00   |
|           |            | 12      | 0         | 18.58   | 18.68   | 18.71   | 20.00   |
|           |            | 12      | 6         | 18.73   | 18.75   | 18.73   | 20.00   |
|           |            | 12      | 13        | 18.58   | 18.62   | 18.67   | 20.00   |
|           |            | 25      | 0         | 18.76   | 18.68   | 18.59   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | /       | 20525   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.65   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.64   | /       | 23.00   |
|           |            | 25      | 0         | /       | 21.63   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.61   | /       | 23.00   |
|           |            | 25      | 25        | /       | 21.64   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.60   | /       | 23.00   |
|           | 16QAM      | 1       | 0         | /       | 21.63   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.65   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.63   | /       | 23.00   |
|           |            | 25      | 0         | /       | 21.58   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.58   | /       | 23.00   |
|           |            | 25      | 25        | /       | 21.64   | /       | 23.00   |
|           | 64QAM      | 50      | 0         | /       | 21.65   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.62   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.63   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.64   | /       | 23.00   |
|           |            | 25      | 0         | /       | 20.62   | /       | 22.00   |
|           |            | 25      | 13        | /       | 20.62   | /       | 22.00   |
|           | 256QAM     | 25      | 25        | /       | 20.62   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.64   | /       | 22.00   |
|           |            | 1       | 0         | /       | 18.67   | /       | 20.00   |
|           |            | 1       | 25        | /       | 18.69   | /       | 20.00   |
|           |            | 1       | 49        | /       | 18.66   | /       | 20.00   |
|           |            | 25      | 0         | /       | 18.66   | /       | 20.00   |
|           |            | 25      | 13        | /       | 18.68   | /       | 20.00   |
|           |            | 25      | 25        | /       | 18.66   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.67   | /       | 20.00   |

| LTE Band 5 Body worn For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 1.4MHz                                | QPSK       | 1       | 0         | 20407                | 20525   | 20643   | 23.50   |
|                                       |            | 1       | 2         | 22.16                | 22.24   | 22.32   | 23.50   |
|                                       |            | 1       | 5         | 22.25                | 22.24   | 22.16   | 23.50   |
|                                       |            | 3       | 0         | 22.12                | 22.16   | 22.09   | 23.50   |
|                                       |            | 3       | 2         | 22.23                | 22.15   | 22.18   | 23.50   |
|                                       |            | 3       | 3         | 22.02                | 22.05   | 22.00   | 23.50   |
|                                       |            | 6       | 0         | 22.29                | 22.26   | 22.19   | 23.50   |
|                                       | 16QAM      | 1       | 0         | 22.11                | 22.21   | 22.21   | 23.50   |
|                                       |            | 1       | 0         | 22.05                | 22.13   | 22.20   | 23.50   |
|                                       |            | 1       | 2         | 22.27                | 22.20   | 22.17   | 23.50   |
|                                       |            | 1       | 2         | 22.27                | 22.20   | 22.17   | 23.50   |
|                                       |            | 1       | 2         | 22.27                | 22.20   | 22.17   | 23.50   |

|           |            | 1       | 5         | 21.83   | 21.89   | 21.97   | 23.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 0         | 22.18   | 22.28   | 22.32   | 23.50   |
|           |            | 3       | 2         | 21.81   | 21.86   | 21.92   | 23.50   |
|           |            | 3       | 3         | 22.15   | 22.08   | 22.10   | 23.50   |
|           |            | 6       | 0         | 21.92   | 21.86   | 21.89   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.75   | 21.77   | 21.73   | 23.00   |
|           |            | 1       | 2         | 21.77   | 21.75   | 21.65   | 23.00   |
|           |            | 1       | 5         | 21.77   | 21.74   | 21.76   | 23.00   |
|           |            | 3       | 0         | 21.68   | 21.60   | 21.51   | 23.00   |
|           |            | 3       | 2         | 21.69   | 21.69   | 21.76   | 23.00   |
|           | 256QAM     | 3       | 3         | 21.60   | 21.62   | 21.62   | 23.00   |
|           |            | 6       | 0         | 20.65   | 20.75   | 20.67   | 22.00   |
|           |            | 1       | 0         | 18.74   | 18.71   | 18.69   | 20.00   |
|           |            | 1       | 2         | 19.02   | 18.93   | 19.01   | 20.00   |
|           |            | 1       | 5         | 18.86   | 18.93   | 18.92   | 20.00   |
|           |            | 3       | 0         | 18.61   | 18.59   | 18.57   | 20.00   |
|           |            | 3       | 2         | 18.82   | 18.74   | 18.65   | 20.00   |
|           |            | 3       | 3         | 18.70   | 18.72   | 18.77   | 20.00   |
|           |            | 6       | 0         | 18.75   | 18.81   | 18.72   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20415   | 20525   | 20635   |         |
| 3MHz      | QPSK       | 1       | 0         | 22.31   | 22.31   | 22.30   | 23.50   |
|           |            | 1       | 7         | 22.15   | 22.16   | 22.25   | 23.50   |
|           |            | 1       | 14        | 22.33   | 22.23   | 22.27   | 23.50   |
|           |            | 8       | 0         | 22.25   | 22.17   | 22.21   | 23.50   |
|           |            | 8       | 4         | 21.94   | 22.04   | 22.04   | 23.50   |
|           |            | 8       | 7         | 22.16   | 22.26   | 22.22   | 23.50   |
|           | 16QAM      | 15      | 0         | 22.17   | 22.19   | 22.09   | 23.50   |
|           |            | 1       | 0         | 22.16   | 22.18   | 22.28   | 23.50   |
|           |            | 1       | 7         | 22.15   | 22.12   | 22.11   | 23.50   |
|           |            | 1       | 14        | 21.99   | 21.97   | 22.03   | 23.50   |
|           |            | 8       | 0         | 21.64   | 21.70   | 21.61   | 23.00   |
|           |            | 8       | 4         | 21.51   | 21.44   | 21.47   | 23.00   |
|           | 64QAM      | 8       | 7         | 21.57   | 21.53   | 21.43   | 23.00   |
|           |            | 15      | 0         | 21.85   | 21.76   | 21.80   | 23.00   |
|           |            | 1       | 0         | 21.65   | 21.70   | 21.80   | 23.00   |
|           |            | 1       | 7         | 21.74   | 21.69   | 21.68   | 23.00   |
|           |            | 1       | 14        | 21.67   | 21.72   | 21.82   | 23.00   |
|           |            | 8       | 0         | 20.52   | 20.51   | 20.48   | 22.00   |
|           | 256QAM     | 8       | 4         | 20.72   | 20.65   | 20.74   | 22.00   |
|           |            | 8       | 7         | 20.74   | 20.72   | 20.76   | 22.00   |
|           |            | 15      | 0         | 20.86   | 20.79   | 20.74   | 22.00   |
|           |            | 1       | 0         | 18.67   | 18.64   | 18.59   | 20.00   |
|           |            | 1       | 7         | 18.87   | 18.83   | 18.79   | 20.00   |
|           |            | 1       | 14        | 18.73   | 18.83   | 18.87   | 20.00   |
| 5MHz      | QPSK       | 8       | 0         | 18.77   | 18.68   | 18.70   | 20.00   |
|           |            | 8       | 4         | 18.76   | 18.67   | 18.72   | 20.00   |
|           |            | 8       | 7         | 18.71   | 18.65   | 18.75   | 20.00   |
|           |            | 15      | 0         | 18.82   | 18.80   | 18.76   | 20.00   |
|           | 16QAM      | 1       | 0         | 22.22   | 22.32   | 22.31   | 23.50   |
|           |            | 1       | 13        | 22.29   | 22.26   | 22.36   | 23.50   |
|           |            | 1       | 24        | 22.19   | 22.27   | 22.31   | 23.50   |
|           |            | 12      | 0         | 22.30   | 22.23   | 22.14   | 23.50   |
|           |            | 12      | 6         | 22.16   | 22.13   | 22.19   | 23.50   |
|           |            | 12      | 13        | 22.20   | 22.23   | 22.28   | 23.50   |
|           | 64QAM      | 25      | 0         | 22.06   | 22.16   | 22.21   | 23.50   |
|           |            | 1       | 0         | 22.25   | 22.16   | 22.15   | 23.50   |
|           |            | 1       | 13        | 22.23   | 22.16   | 22.14   | 23.50   |
|           |            | 1       | 24        | 21.97   | 22.04   | 22.07   | 23.50   |
|           |            | 12      | 0         | 21.64   | 21.60   | 21.66   | 23.00   |
|           |            | 12      | 6         | 21.43   | 21.43   | 21.47   | 23.00   |
|           | 256QAM     | 12      | 13        | 21.62   | 21.63   | 21.72   | 23.00   |
|           |            | 25      | 0         | 21.74   | 21.73   | 21.78   | 23.00   |
|           |            | 1       | 0         | 21.63   | 21.69   | 21.75   | 23.00   |
|           |            | 1       | 13        | 21.81   | 21.76   | 21.82   | 23.00   |
|           |            | 1       | 24        | 21.57   | 21.64   | 21.69   | 23.00   |
|           |            | 12      | 0         | 20.44   | 20.49   | 20.39   | 22.00   |
|           |            | 12      | 6         | 20.61   | 20.64   | 20.74   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20425   | 20525   | 20625   |         |

|           |            | 12      | 13        | 20.70   | 20.73   | 20.82   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 20.72   | 20.70   | 20.76   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.58   | 18.57   | 18.48   | 20.00   |
|           |            | 1       | 13        | 18.79   | 18.77   | 18.76   | 20.00   |
|           |            | 1       | 24        | 18.79   | 18.74   | 18.80   | 20.00   |
|           |            | 12      | 0         | 18.66   | 18.64   | 18.72   | 20.00   |
|           |            | 12      | 6         | 18.54   | 18.59   | 18.49   | 20.00   |
|           |            | 12      | 13        | 18.60   | 18.69   | 18.64   | 20.00   |
|           |            | 25      | 0         | 18.67   | 18.70   | 18.66   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | /       | 20525   | /       |         |
|           |            | 1       | 25        | /       | 22.32   | /       | 23.50   |
|           |            | 1       | 49        | /       | 22.19   | /       | 23.50   |
|           |            | 25      | 0         | /       | 22.17   | /       | 23.50   |
|           |            | 25      | 13        | /       | 22.06   | /       | 23.50   |
|           |            | 25      | 25        | /       | 22.13   | /       | 23.50   |
|           | 16QAM      | 50      | 0         | /       | 22.12   | /       | 23.50   |
|           |            | 1       | 0         | /       | 22.13   | /       | 23.50   |
|           |            | 1       | 25        | /       | 22.19   | /       | 23.50   |
|           |            | 1       | 49        | /       | 22.12   | /       | 23.50   |
|           |            | 25      | 0         | /       | 21.55   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.53   | /       | 23.00   |
|           | 64QAM      | 25      | 25        | /       | 21.63   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.67   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.59   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.67   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.59   | /       | 23.00   |
|           |            | 25      | 0         | /       | 20.57   | /       | 22.00   |
|           | 256QAM     | 25      | 13        | /       | 20.64   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.70   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.70   | /       | 22.00   |
|           |            | 1       | 0         | /       | 18.66   | /       | 20.00   |
|           |            | 1       | 25        | /       | 18.75   | /       | 20.00   |
|           |            | 1       | 49        | /       | 18.69   | /       | 20.00   |
|           | 256QAM     | 25      | 0         | /       | 18.65   | /       | 20.00   |
|           |            | 25      | 13        | /       | 18.69   | /       | 20.00   |
|           |            | 25      | 25        | /       | 18.75   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.69   | /       | 20.00   |

| LTE Band 7 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                         | QPSK       | 1       | 0         | 20775                | 21100   | 21425   |         |
|                                              |            | 1       | 13        | 21.90                | 21.83   | 21.62   | 23.50   |
|                                              |            | 1       | 24        | 21.73                | 21.79   | 21.59   | 23.50   |
|                                              |            | 1       | 24        | 21.58                | 21.82   | 21.70   | 23.50   |
|                                              |            | 12      | 0         | 20.74                | 20.98   | 20.96   | 22.50   |
|                                              |            | 12      | 6         | 20.75                | 20.76   | 20.71   | 22.50   |
|                                              | 16QAM      | 12      | 13        | 20.75                | 20.99   | 20.64   | 22.50   |
|                                              |            | 25      | 0         | 21.02                | 20.80   | 20.67   | 22.50   |
|                                              |            | 1       | 0         | 20.79                | 20.67   | 20.64   | 22.50   |
|                                              |            | 1       | 13        | 20.73                | 20.65   | 20.80   | 22.50   |
|                                              |            | 1       | 24        | 20.78                | 20.58   | 20.53   | 22.50   |
|                                              |            | 12      | 0         | 19.80                | 19.96   | 19.71   | 21.50   |
|                                              | 64QAM      | 12      | 6         | 19.68                | 19.66   | 19.72   | 21.50   |
|                                              |            | 12      | 13        | 19.77                | 19.80   | 19.86   | 21.50   |
|                                              |            | 25      | 0         | 20.02                | 19.87   | 19.96   | 21.50   |
|                                              |            | 1       | 0         | 19.71                | 19.90   | 19.82   | 21.50   |
|                                              |            | 1       | 13        | 19.95                | 19.94   | 19.69   | 21.50   |
|                                              |            | 1       | 24        | 19.80                | 19.76   | 19.82   | 21.50   |
|                                              | 256QAM     | 12      | 0         | 18.78                | 19.00   | 18.70   | 20.50   |
|                                              |            | 12      | 6         | 18.82                | 18.84   | 18.88   | 20.50   |
|                                              |            | 12      | 13        | 18.73                | 18.89   | 18.66   | 20.50   |
|                                              |            | 25      | 0         | 18.55                | 18.79   | 18.67   | 20.50   |
|                                              |            | 1       | 0         | 16.79                | 16.98   | 16.68   | 18.50   |
|                                              |            | 1       | 13        | 16.73                | 16.59   | 16.62   | 18.50   |
|                                              | 256QAM     | 1       | 24        | 16.75                | 16.85   | 16.67   | 18.50   |
|                                              |            | 12      | 0         | 16.85                | 16.71   | 16.81   | 18.50   |

|           |            | 12      | 6         | 16.81   | 16.89   | 16.98   | 18.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 13        | 16.81   | 16.88   | 16.78   | 18.50   |
|           |            | 25      | 0         | 16.70   | 16.76   | 16.91   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20800   | 21100   | 21400   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.92   | 21.83   | 21.60   | 23.50   |
|           |            | 1       | 25        | 21.67   | 21.74   | 21.67   | 23.50   |
|           |            | 1       | 49        | 21.68   | 21.92   | 21.70   | 23.50   |
|           |            | 25      | 0         | 20.71   | 20.98   | 20.86   | 22.50   |
|           |            | 25      | 13        | 20.71   | 20.86   | 20.72   | 22.50   |
|           |            | 25      | 25        | 20.80   | 20.95   | 20.69   | 22.50   |
|           |            | 50      | 0         | 20.92   | 20.84   | 20.63   | 22.50   |
|           | 16QAM      | 1       | 0         | 20.89   | 20.66   | 20.68   | 22.50   |
|           |            | 1       | 25        | 20.80   | 20.75   | 20.79   | 22.50   |
|           |            | 1       | 49        | 20.77   | 20.67   | 20.63   | 22.50   |
|           |            | 25      | 0         | 19.80   | 19.87   | 19.68   | 21.50   |
|           |            | 25      | 13        | 19.71   | 19.71   | 19.70   | 21.50   |
|           |            | 25      | 25        | 19.71   | 19.88   | 19.85   | 21.50   |
|           |            | 50      | 0         | 19.97   | 19.80   | 19.89   | 21.50   |
|           | 64QAM      | 1       | 0         | 19.69   | 19.92   | 19.83   | 21.50   |
|           |            | 1       | 25        | 19.94   | 19.88   | 19.79   | 21.50   |
|           |            | 1       | 49        | 19.77   | 19.79   | 19.77   | 21.50   |
|           |            | 25      | 0         | 18.86   | 18.97   | 18.73   | 20.50   |
|           |            | 25      | 13        | 18.81   | 18.76   | 18.79   | 20.50   |
|           |            | 25      | 25        | 18.81   | 18.79   | 18.60   | 20.50   |
|           |            | 50      | 0         | 18.61   | 18.82   | 18.74   | 20.50   |
|           | 256QAM     | 1       | 0         | 16.71   | 16.93   | 16.70   | 18.50   |
|           |            | 1       | 25        | 16.81   | 16.69   | 16.72   | 18.50   |
|           |            | 1       | 49        | 16.68   | 16.93   | 16.59   | 18.50   |
|           |            | 25      | 0         | 16.75   | 16.63   | 16.77   | 18.50   |
|           |            | 25      | 13        | 16.72   | 16.80   | 16.95   | 18.50   |
|           |            | 25      | 25        | 16.73   | 16.78   | 16.87   | 18.50   |
|           |            | 50      | 0         | 16.79   | 16.80   | 16.84   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.82   | 21.90   | 21.67   | 23.50   |
|           |            | 1       | 38        | 21.70   | 21.81   | 21.74   | 23.50   |
|           |            | 1       | 74        | 21.76   | 21.82   | 21.68   | 23.50   |
|           |            | 36      | 0         | 20.65   | 20.90   | 20.87   | 22.50   |
|           |            | 36      | 18        | 20.77   | 20.83   | 20.75   | 22.50   |
|           |            | 36      | 39        | 20.71   | 20.90   | 20.70   | 22.50   |
|           |            | 75      | 0         | 20.92   | 20.79   | 20.73   | 22.50   |
|           | 16QAM      | 1       | 0         | 20.82   | 20.73   | 20.77   | 22.50   |
|           |            | 1       | 38        | 20.77   | 20.83   | 20.76   | 22.50   |
|           |            | 1       | 74        | 20.73   | 20.72   | 20.64   | 22.50   |
|           |            | 36      | 0         | 19.75   | 19.77   | 19.66   | 21.50   |
|           |            | 36      | 18        | 19.72   | 19.79   | 19.72   | 21.50   |
|           |            | 36      | 39        | 19.76   | 19.81   | 19.87   | 21.50   |
|           |            | 75      | 0         | 19.89   | 19.82   | 19.90   | 21.50   |
|           | 64QAM      | 1       | 0         | 19.72   | 19.88   | 19.75   | 21.50   |
|           |            | 1       | 38        | 19.89   | 19.79   | 19.72   | 21.50   |
|           |            | 1       | 74        | 19.77   | 19.88   | 19.84   | 21.50   |
|           |            | 36      | 0         | 18.85   | 18.91   | 18.79   | 20.50   |
|           |            | 36      | 18        | 18.75   | 18.75   | 18.75   | 20.50   |
|           |            | 36      | 39        | 18.78   | 18.84   | 18.67   | 20.50   |
|           |            | 75      | 0         | 18.64   | 18.77   | 18.81   | 20.50   |
|           | 256QAM     | 1       | 0         | 16.73   | 16.86   | 16.65   | 18.50   |
|           |            | 1       | 38        | 16.71   | 16.79   | 16.67   | 18.50   |
|           |            | 1       | 74        | 16.77   | 16.83   | 16.60   | 18.50   |
|           |            | 36      | 0         | 16.73   | 16.70   | 16.68   | 18.50   |
|           |            | 36      | 18        | 16.72   | 16.87   | 16.94   | 18.50   |
|           |            | 36      | 39        | 16.63   | 16.81   | 16.80   | 18.50   |
|           |            | 75      | 0         | 16.84   | 16.89   | 16.80   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 21.73   | 21.84   | 21.75   | 23.50   |
|           |            | 1       | 50        | 21.73   | 21.72   | 21.76   | 23.50   |
|           |            | 1       | 99        | 21.73   | 21.81   | 21.72   | 23.50   |
|           |            | 50      | 0         | 20.74   | 20.84   | 20.86   | 22.50   |
|           |            | 50      | 25        | 20.80   | 20.83   | 20.84   | 22.50   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 50  | 50 | 20.76 | 20.83 | 20.77 | 22.50 |
|  |        | 100 | 0  | 20.84 | 20.78 | 20.79 | 22.50 |
|  | 16QAM  | 1   | 0  | 20.74 | 20.77 | 20.75 | 22.50 |
|  |        | 1   | 50 | 20.82 | 20.88 | 20.79 | 22.50 |
|  |        | 1   | 99 | 20.72 | 20.78 | 20.67 | 22.50 |
|  |        | 50  | 0  | 19.73 | 19.78 | 19.76 | 21.50 |
|  |        | 50  | 25 | 19.76 | 19.77 | 19.74 | 21.50 |
|  |        | 50  | 50 | 19.80 | 19.76 | 19.84 | 21.50 |
|  |        | 100 | 0  | 19.80 | 19.82 | 19.83 | 21.50 |
|  |        | 1   | 0  | 19.73 | 19.80 | 19.79 | 21.50 |
|  | 64QAM  | 1   | 50 | 19.80 | 19.73 | 19.79 | 21.50 |
|  |        | 1   | 99 | 19.79 | 19.78 | 19.83 | 21.50 |
|  |        | 50  | 0  | 18.82 | 18.81 | 18.75 | 20.50 |
|  |        | 50  | 25 | 18.77 | 18.76 | 18.71 | 20.50 |
|  |        | 50  | 50 | 18.69 | 18.74 | 18.71 | 20.50 |
|  |        | 100 | 0  | 18.74 | 18.72 | 18.78 | 20.50 |
|  | 256QAM | 1   | 0  | 16.77 | 16.77 | 16.71 | 18.50 |
|  |        | 1   | 50 | 16.80 | 16.82 | 16.75 | 18.50 |
|  |        | 1   | 99 | 16.74 | 16.82 | 16.68 | 18.50 |
|  |        | 50  | 0  | 16.72 | 16.76 | 16.68 | 18.50 |
|  |        | 50  | 25 | 16.75 | 16.79 | 16.87 | 18.50 |
|  |        | 50  | 50 | 16.73 | 16.79 | 16.71 | 18.50 |
|  |        | 100 | 0  | 16.81 | 16.86 | 16.76 | 18.50 |

| LTE FDD Band 12 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                   |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz                                            | QPSK       | 1       | 0         | 23.37                | 23.47   | 23.47   | 25.00   |
|                                                   |            | 1       | 2         | 23.33                | 23.23   | 23.32   | 25.00   |
|                                                   |            | 1       | 5         | 23.12                | 23.20   | 23.12   | 25.00   |
|                                                   |            | 3       | 0         | 23.21                | 23.17   | 23.22   | 25.00   |
|                                                   |            | 3       | 2         | 23.36                | 23.29   | 23.39   | 25.00   |
|                                                   |            | 3       | 3         | 23.21                | 23.14   | 23.21   | 25.00   |
|                                                   | 16QAM      | 6       | 0         | 22.24                | 22.31   | 22.33   | 24.00   |
|                                                   |            | 1       | 0         | 22.24                | 22.20   | 22.22   | 24.00   |
|                                                   |            | 1       | 2         | 22.18                | 22.18   | 22.27   | 24.00   |
|                                                   |            | 1       | 5         | 22.32                | 22.24   | 22.25   | 24.00   |
|                                                   |            | 3       | 0         | 22.06                | 22.04   | 22.12   | 24.00   |
|                                                   |            | 3       | 2         | 22.40                | 22.33   | 22.35   | 24.00   |
|                                                   | 64QAM      | 3       | 3         | 22.22                | 22.27   | 22.30   | 24.00   |
|                                                   |            | 6       | 0         | 21.17                | 21.20   | 21.11   | 23.00   |
|                                                   |            | 1       | 0         | 21.02                | 21.07   | 21.12   | 23.00   |
|                                                   |            | 1       | 2         | 21.08                | 21.05   | 21.00   | 23.00   |
|                                                   |            | 1       | 5         | 21.37                | 21.39   | 21.47   | 23.00   |
|                                                   |            | 3       | 0         | 21.34                | 21.27   | 21.33   | 23.00   |
|                                                   | 256QAM     | 3       | 2         | 21.18                | 21.19   | 21.14   | 23.00   |
|                                                   |            | 3       | 3         | 21.34                | 21.30   | 21.25   | 23.00   |
|                                                   |            | 6       | 0         | 20.15                | 20.17   | 20.08   | 22.00   |
|                                                   |            | 1       | 0         | 18.42                | 18.42   | 18.35   | 20.00   |
|                                                   |            | 1       | 2         | 18.52                | 18.42   | 18.48   | 20.00   |
|                                                   |            | 1       | 5         | 18.15                | 18.11   | 18.02   | 20.00   |
|                                                   |            | 3       | 0         | 18.25                | 18.15   | 18.12   | 20.00   |
|                                                   |            | 3       | 2         | 18.25                | 18.25   | 18.26   | 20.00   |
| 3MHz                                              | QPSK       | 3       | 3         | 18.24                | 18.14   | 18.04   | 20.00   |
|                                                   |            | 6       | 0         | 18.44                | 18.40   | 18.38   | 20.00   |
|                                                   |            | 1       | 0         | 23.42                | 23.51   | 23.58   | 25.00   |
|                                                   |            | 1       | 7         | 23.12                | 23.21   | 23.14   | 25.00   |
|                                                   |            | 1       | 14        | 23.23                | 23.17   | 23.14   | 25.00   |
|                                                   |            | 8       | 0         | 22.04                | 22.12   | 22.02   | 24.00   |
|                                                   | 16QAM      | 8       | 4         | 22.41                | 22.38   | 22.41   | 24.00   |
|                                                   |            | 8       | 7         | 22.29                | 22.21   | 22.20   | 24.00   |
|                                                   |            | 15      | 0         | 22.20                | 22.21   | 22.16   | 24.00   |
|                                                   |            | 1       | 0         | 22.24                | 22.14   | 22.09   | 24.00   |
|                                                   |            | 1       | 7         | 22.20                | 22.19   | 22.14   | 24.00   |
|                                                   |            | 1       | 14        | 22.24                | 22.21   | 22.21   | 24.00   |
|                                                   |            | 8       | 0         | 21.21                | 21.11   | 21.16   | 23.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 4         | 21.18   | 21.24   | 21.16   | 23.00   |
|           |            | 8       | 7         | 21.19   | 21.20   | 21.24   | 23.00   |
|           |            | 15      | 0         | 21.24   | 21.24   | 21.18   | 23.00   |
|           |            | 1       | 0         | 21.05   | 21.14   | 21.05   | 23.00   |
|           |            | 1       | 7         | 21.16   | 21.15   | 21.22   | 23.00   |
|           | 64QAM      | 1       | 14        | 21.31   | 21.34   | 21.28   | 23.00   |
|           |            | 8       | 0         | 20.19   | 20.23   | 20.18   | 22.00   |
|           |            | 8       | 4         | 20.27   | 20.28   | 20.34   | 22.00   |
|           |            | 8       | 7         | 20.33   | 20.25   | 20.17   | 22.00   |
|           |            | 15      | 0         | 20.21   | 20.23   | 20.23   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.28   | 18.32   | 18.39   | 20.00   |
|           |            | 1       | 7         | 18.32   | 18.36   | 18.33   | 20.00   |
|           |            | 1       | 14        | 18.16   | 18.15   | 18.23   | 20.00   |
|           |            | 8       | 0         | 18.03   | 18.07   | 18.12   | 20.00   |
|           |            | 8       | 4         | 18.27   | 18.25   | 18.31   | 20.00   |
| Bandwidth | Modulation | 8       | 7         | 18.31   | 18.22   | 18.16   | 20.00   |
|           |            | 15      | 0         | 18.38   | 18.35   | 18.33   | 20.00   |
|           |            | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 23035   | 23095   | 23155   |         |
|           |            | 1       | 0         | 23.34   | 23.41   | 23.47   | 25.00   |
|           |            | 1       | 13        | 23.26   | 23.23   | 23.20   | 25.00   |
|           |            | 1       | 24        | 23.30   | 23.26   | 23.29   | 25.00   |
|           |            | 12      | 0         | 22.26   | 22.20   | 22.17   | 24.00   |
|           |            | 12      | 6         | 22.42   | 22.34   | 22.26   | 24.00   |
|           |            | 12      | 13        | 22.27   | 22.24   | 22.18   | 24.00   |
|           |            | 25      | 0         | 22.22   | 22.20   | 22.26   | 24.00   |
|           |            | 1       | 0         | 22.05   | 22.14   | 22.18   | 24.00   |
|           |            | 1       | 13        | 22.27   | 22.18   | 22.14   | 24.00   |
|           |            | 1       | 24        | 22.35   | 22.28   | 22.18   | 24.00   |
|           |            | 12      | 0         | 21.19   | 21.18   | 21.11   | 23.00   |
| 5MHz      | QPSK       | 12      | 6         | 21.04   | 21.14   | 21.20   | 23.00   |
|           |            | 12      | 13        | 21.21   | 21.13   | 21.15   | 23.00   |
|           |            | 25      | 0         | 21.31   | 21.25   | 21.30   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.16   | 21.17   | 21.26   | 23.00   |
|           |            | 1       | 13        | 21.31   | 21.23   | 21.15   | 23.00   |
|           |            | 1       | 24        | 21.43   | 21.37   | 21.27   | 23.00   |
|           |            | 12      | 0         | 20.25   | 20.15   | 20.17   | 22.00   |
|           |            | 12      | 6         | 20.26   | 20.36   | 20.32   | 22.00   |
|           |            | 12      | 13        | 20.32   | 20.35   | 20.42   | 22.00   |
|           |            | 25      | 0         | 20.27   | 20.22   | 20.25   | 22.00   |
|           | 64QAM      | 1       | 0         | 18.18   | 18.22   | 18.23   | 20.00   |
|           |            | 1       | 13        | 18.38   | 18.30   | 18.22   | 20.00   |
|           |            | 1       | 24        | 18.26   | 18.24   | 18.21   | 20.00   |
|           |            | 12      | 0         | 18.13   | 18.17   | 18.22   | 20.00   |
|           |            | 12      | 6         | 18.21   | 18.18   | 18.19   | 20.00   |
|           | 256QAM     | 12      | 13        | 18.21   | 18.24   | 18.18   | 20.00   |
|           |            | 25      | 0         | 18.34   | 18.26   | 18.34   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 23095   | /       |         |
|           |            | 1       | 0         | /       | 23.35   | /       | 25.00   |
|           |            | 1       | 25        | /       | 23.21   | /       | 25.00   |
|           |            | 1       | 49        | /       | 23.21   | /       | 25.00   |
|           |            | 25      | 0         | /       | 22.18   | /       | 24.00   |
|           |            | 25      | 13        | /       | 22.28   | /       | 24.00   |
|           |            | 25      | 25        | /       | 22.23   | /       | 24.00   |
|           |            | 50      | 0         | /       | 22.18   | /       | 24.00   |
|           |            | 1       | 0         | /       | 22.24   | /       | 24.00   |
|           |            | 1       | 25        | /       | 22.27   | /       | 24.00   |
|           |            | 1       | 49        | /       | 22.26   | /       | 24.00   |
|           |            | 25      | 0         | /       | 21.25   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.19   | /       | 23.00   |
|           |            | 25      | 25        | /       | 21.23   | /       | 23.00   |
| 10MHz     | QPSK       | 50      | 0         | /       | 21.20   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.24   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.20   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.28   | /       | 23.00   |
|           |            | 25      | 0         | /       | 20.24   | /       | 22.00   |
|           | 16QAM      | 25      | 13        | /       | 20.31   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.29   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.23   | /       | 22.00   |
|           | 64QAM      | 1       | 0         | /       | 20.23   | /       | 22.00   |
|           |            | 1       | 25        | /       | 20.23   | /       | 22.00   |
|           |            | 1       | 49        | /       | 20.23   | /       | 22.00   |
|           |            | 25      | 0         | /       | 20.23   | /       | 22.00   |
|           |            | 25      | 13        | /       | 20.23   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.23   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.23   | /       | 22.00   |

|  |        |    |    |   |       |   |       |
|--|--------|----|----|---|-------|---|-------|
|  | 256QAM | 1  | 0  | / | 18.29 | / | 20.00 |
|  |        | 1  | 25 | / | 18.27 | / | 20.00 |
|  |        | 1  | 49 | / | 18.22 | / | 20.00 |
|  |        | 25 | 0  | / | 18.19 | / | 20.00 |
|  |        | 25 | 13 | / | 18.25 | / | 20.00 |
|  |        | 25 | 25 | / | 18.25 | / | 20.00 |
|  |        | 50 | 0  | / | 18.23 | / | 20.00 |

| LTE FDD Band 14 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                              | QPSK       | 1       | 0         | /                    | 23.42   | /       | 25.00   |
|                                                   |            | 1       | 13        | /                    | 23.50   | /       | 25.00   |
|                                                   |            | 1       | 24        | /                    | 23.40   | /       | 25.00   |
|                                                   |            | 12      | 0         | /                    | 22.45   | /       | 24.00   |
|                                                   |            | 12      | 6         | /                    | 22.31   | /       | 24.00   |
|                                                   |            | 12      | 13        | /                    | 22.35   | /       | 24.00   |
|                                                   | 16QAM      | 25      | 0         | /                    | 22.32   | /       | 24.00   |
|                                                   |            | 1       | 0         | /                    | 22.42   | /       | 24.00   |
|                                                   |            | 1       | 13        | /                    | 22.34   | /       | 24.00   |
|                                                   |            | 1       | 24        | /                    | 22.36   | /       | 24.00   |
|                                                   |            | 12      | 0         | /                    | 21.45   | /       | 23.00   |
|                                                   |            | 12      | 6         | /                    | 21.51   | /       | 23.00   |
|                                                   | 64QAM      | 12      | 13        | /                    | 21.32   | /       | 23.00   |
|                                                   |            | 25      | 0         | /                    | 21.30   | /       | 23.00   |
|                                                   |            | 1       | 0         | /                    | 21.51   | /       | 23.00   |
|                                                   |            | 1       | 13        | /                    | 21.44   | /       | 23.00   |
|                                                   |            | 1       | 24        | /                    | 21.32   | /       | 23.00   |
|                                                   |            | 12      | 0         | /                    | 20.37   | /       | 22.00   |
|                                                   | 256QAM     | 12      | 6         | /                    | 20.36   | /       | 22.00   |
|                                                   |            | 12      | 13        | /                    | 20.43   | /       | 22.00   |
|                                                   |            | 25      | 0         | /                    | 20.30   | /       | 22.00   |
|                                                   |            | 1       | 0         | /                    | 18.31   | /       | 20.00   |
|                                                   |            | 1       | 13        | /                    | 18.47   | /       | 20.00   |
|                                                   |            | 1       | 24        | /                    | 18.31   | /       | 20.00   |
| 10MHz                                             | QPSK       | 12      | 0         | /                    | 18.52   | /       | 20.00   |
|                                                   |            | 12      | 6         | /                    | 18.41   | /       | 20.00   |
|                                                   |            | 12      | 13        | /                    | 18.32   | /       | 20.00   |
|                                                   |            | 25      | 0         | /                    | 18.34   | /       | 20.00   |
|                                                   | 16QAM      | 1       | 0         | /                    | 23.5    | /       | 25.00   |
|                                                   |            | 1       | 25        | /                    | 23.41   | /       | 25.00   |
|                                                   |            | 1       | 49        | /                    | 23.42   | /       | 25.00   |
|                                                   |            | 25      | 0         | /                    | 22.43   | /       | 24.00   |
|                                                   |            | 25      | 13        | /                    | 22.36   | /       | 24.00   |
|                                                   |            | 25      | 25        | /                    | 22.35   | /       | 24.00   |
|                                                   | 64QAM      | 50      | 0         | /                    | 22.39   | /       | 24.00   |
|                                                   |            | 1       | 0         | /                    | 22.36   | /       | 24.00   |
|                                                   |            | 1       | 25        | /                    | 22.41   | /       | 24.00   |
|                                                   |            | 1       | 49        | /                    | 22.42   | /       | 24.00   |
|                                                   |            | 25      | 0         | /                    | 21.4    | /       | 23.00   |
|                                                   |            | 25      | 13        | /                    | 21.41   | /       | 23.00   |
|                                                   | 256QAM     | 25      | 25        | /                    | 21.36   | /       | 23.00   |
|                                                   |            | 50      | 0         | /                    | 21.35   | /       | 23.00   |
|                                                   |            | 1       | 0         | /                    | 21.42   | /       | 23.00   |
|                                                   |            | 1       | 25        | /                    | 21.35   | /       | 23.00   |
|                                                   |            | 1       | 49        | /                    | 21.42   | /       | 23.00   |
|                                                   |            | 25      | 0         | /                    | 20.36   | /       | 22.00   |
|                                                   | 16QAM      | 25      | 13        | /                    | 20.40   | /       | 22.00   |
|                                                   |            | 25      | 25        | /                    | 20.42   | /       | 22.00   |
|                                                   |            | 50      | 0         | /                    | 20.40   | /       | 22.00   |
|                                                   | 256QAM     | 1       | 0         | /                    | 18.41   | /       | 20.00   |
|                                                   |            | 1       | 25        | /                    | 18.38   | /       | 20.00   |
|                                                   |            | 1       | 49        | /                    | 18.40   | /       | 20.00   |
|                                                   |            | 25      | 0         | /                    | 18.42   | /       | 20.00   |
|                                                   | 64QAM      | 25      | 13        | /                    | 18.41   | /       | 20.00   |
|                                                   |            | 25      | 25        | /                    | 18.41   | /       | 20.00   |

|  |  |    |   |   |       |   |       |
|--|--|----|---|---|-------|---|-------|
|  |  | 50 | 0 | / | 18.42 | / | 20.00 |
|--|--|----|---|---|-------|---|-------|

| LTE FDD Band 14 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz            | QPSK       | 1       | 0         | /                    | 23330   | /       |         |
|                 |            | 1       | 13        | /                    | 21.53   | /       | 23.00   |
|                 |            | 1       | 24        | /                    | 21.35   | /       | 23.00   |
|                 |            | 12      | 0         | /                    | 21.48   | /       | 23.00   |
|                 |            | 12      | 6         | /                    | 21.41   | /       | 23.00   |
|                 |            | 12      | 13        | /                    | 21.30   | /       | 23.00   |
|                 | 16QAM      | 25      | 0         | /                    | 21.25   | /       | 23.00   |
|                 |            | 1       | 0         | /                    | 21.37   | /       | 23.00   |
|                 |            | 1       | 13        | /                    | 21.48   | /       | 23.00   |
|                 |            | 1       | 24        | /                    | 21.45   | /       | 23.00   |
|                 |            | 12      | 0         | /                    | 21.36   | /       | 23.00   |
|                 |            | 12      | 6         | /                    | 21.35   | /       | 23.00   |
|                 | 64QAM      | 12      | 13        | /                    | 21.45   | /       | 23.00   |
|                 |            | 12      | 6         | /                    | 21.33   | /       | 23.00   |
|                 |            | 25      | 0         | /                    | 21.30   | /       | 23.00   |
|                 |            | 1       | 0         | /                    | 21.47   | /       | 23.00   |
|                 |            | 1       | 13        | /                    | 21.28   | /       | 23.00   |
|                 |            | 1       | 24        | /                    | 21.44   | /       | 23.00   |
|                 | 256QAM     | 12      | 0         | /                    | 20.26   | /       | 22.00   |
|                 |            | 12      | 6         | /                    | 20.41   | /       | 22.00   |
|                 |            | 12      | 13        | /                    | 20.50   | /       | 22.00   |
|                 |            | 25      | 0         | /                    | 20.55   | /       | 22.00   |
|                 |            | 1       | 0         | /                    | 18.44   | /       | 20.00   |
|                 |            | 1       | 13        | /                    | 18.53   | /       | 20.00   |
| 10MHz           | QPSK       | 1       | 24        | /                    | 18.41   | /       | 20.00   |
|                 |            | 12      | 0         | /                    | 18.54   | /       | 20.00   |
|                 |            | 12      | 6         | /                    | 18.42   | /       | 20.00   |
|                 |            | 12      | 13        | /                    | 18.47   | /       | 20.00   |
|                 |            | 25      | 0         | /                    | 18.51   | /       | 20.00   |
|                 |            | 1       | 0         | /                    | 21.56   | /       | 23.00   |
|                 | 16QAM      | 1       | 25        | /                    | 21.42   | /       | 23.00   |
|                 |            | 1       | 49        | /                    | 21.42   | /       | 23.00   |
|                 |            | 25      | 0         | /                    | 21.48   | /       | 23.00   |
|                 |            | 25      | 13        | /                    | 21.39   | /       | 23.00   |
|                 |            | 25      | 25        | /                    | 21.32   | /       | 23.00   |
|                 |            | 50      | 0         | /                    | 21.4    | /       | 23.00   |
|                 | 64QAM      | 1       | 0         | /                    | 21.43   | /       | 23.00   |
|                 |            | 1       | 25        | /                    | 21.37   | /       | 23.00   |
|                 |            | 1       | 49        | /                    | 21.37   | /       | 23.00   |
|                 |            | 25      | 0         | /                    | 21.41   | /       | 23.00   |
|                 |            | 25      | 13        | /                    | 21.36   | /       | 23.00   |
|                 |            | 25      | 25        | /                    | 21.39   | /       | 23.00   |
|                 | 256QAM     | 50      | 0         | /                    | 21.39   | /       | 23.00   |
|                 |            | 1       | 0         | /                    | 21.46   | /       | 23.00   |
|                 |            | 1       | 25        | /                    | 21.35   | /       | 23.00   |
|                 |            | 1       | 49        | /                    | 21.48   | /       | 23.00   |
|                 |            | 25      | 0         | /                    | 20.36   | /       | 22.00   |
|                 |            | 25      | 13        | /                    | 20.39   | /       | 22.00   |
|                 |            | 25      | 25        | /                    | 20.50   | /       | 22.00   |
|                 |            | 50      | 0         | /                    | 20.50   | /       | 22.00   |
|                 |            | 50      | 0         | /                    | 20.47   | /       | 22.00   |
|                 |            | 1       | 0         | /                    | 18.45   | /       | 20.00   |
|                 |            | 1       | 25        | /                    | 18.47   | /       | 20.00   |
|                 |            | 1       | 49        | /                    | 18.44   | /       | 20.00   |
|                 |            | 25      | 0         | /                    | 18.49   | /       | 20.00   |
|                 |            | 25      | 13        | /                    | 18.42   | /       | 20.00   |
|                 |            | 25      | 25        | /                    | 18.44   | /       | 20.00   |
|                 |            | 50      | 0         | /                    | 18.42   | /       | 20.00   |

| LTE FDD Band 17 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                   |            |         |           | /                    | 23790   | /       |         |

|       |        |    |    |   |       |   |       |
|-------|--------|----|----|---|-------|---|-------|
| 5MHz  | QPSK   | 1  | 0  | / | 24.27 | / | 26.00 |
|       |        | 1  | 13 | / | 24.12 | / | 26.00 |
|       |        | 1  | 24 | / | 24.09 | / | 26.00 |
|       |        | 12 | 0  | / | 23.18 | / | 25.00 |
|       |        | 12 | 6  | / | 23.17 | / | 25.00 |
|       |        | 12 | 13 | / | 23.22 | / | 25.00 |
|       | 16QAM  | 25 | 0  | / | 23.05 | / | 25.00 |
|       |        | 1  | 0  | / | 23.05 | / | 25.00 |
|       |        | 1  | 13 | / | 23.12 | / | 25.00 |
|       |        | 1  | 24 | / | 23.16 | / | 25.00 |
|       |        | 12 | 0  | / | 22.16 | / | 24.00 |
|       |        | 12 | 6  | / | 22.12 | / | 24.00 |
|       | 64QAM  | 12 | 13 | / | 22.18 | / | 24.00 |
|       |        | 25 | 0  | / | 22.16 | / | 24.00 |
|       |        | 1  | 0  | / | 22.23 | / | 24.00 |
|       |        | 1  | 13 | / | 22.16 | / | 24.00 |
|       |        | 1  | 24 | / | 22.03 | / | 24.00 |
|       |        | 12 | 0  | / | 21.06 | / | 23.00 |
| 10MHz | QPSK   | 12 | 6  | / | 21.13 | / | 23.00 |
|       |        | 12 | 13 | / | 21.00 | / | 23.00 |
|       |        | 25 | 0  | / | 21.21 | / | 23.00 |
|       | 16QAM  | 1  | 0  | / | 19.14 | / | 21.00 |
|       |        | 1  | 13 | / | 19.11 | / | 21.00 |
|       |        | 1  | 24 | / | 19.07 | / | 21.00 |
|       | 64QAM  | 12 | 0  | / | 19.22 | / | 21.00 |
|       |        | 12 | 6  | / | 19.11 | / | 21.00 |
|       |        | 12 | 13 | / | 19.16 | / | 21.00 |
|       | 256QAM | 25 | 0  | / | 19.16 | / | 21.00 |
|       |        | 1  | 0  | / | 24.28 | / | 26.00 |
|       |        | 1  | 25 | / | 24.15 | / | 26.00 |
|       |        | 1  | 49 | / | 24.15 | / | 26.00 |
|       |        | 25 | 0  | / | 23.17 | / | 25.00 |
|       |        | 25 | 13 | / | 23.15 | / | 25.00 |
|       | 16QAM  | 25 | 25 | / | 23.13 | / | 25.00 |
|       |        | 50 | 0  | / | 23.15 | / | 25.00 |
|       |        | 1  | 0  | / | 23.15 | / | 25.00 |
|       |        | 1  | 25 | / | 23.11 | / | 25.00 |
|       |        | 1  | 49 | / | 23.14 | / | 25.00 |
|       |        | 25 | 0  | / | 22.20 | / | 24.00 |
|       | 64QAM  | 25 | 13 | / | 22.08 | / | 24.00 |
|       |        | 25 | 25 | / | 22.23 | / | 24.00 |
|       |        | 50 | 0  | / | 22.13 | / | 24.00 |
|       | 256QAM | 1  | 0  | / | 22.14 | / | 24.00 |
|       |        | 1  | 25 | / | 22.19 | / | 24.00 |
|       |        | 1  | 49 | / | 22.09 | / | 24.00 |
|       |        | 25 | 0  | / | 21.15 | / | 23.00 |
|       |        | 25 | 13 | / | 21.18 | / | 23.00 |
|       |        | 25 | 25 | / | 21.10 | / | 23.00 |

| LTE FDD Band 30 full power/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                              |            |         |           | /                    | 27710   | /       |         |
| 5MHz                                         | QPSK       | 1       | 0         | /                    | 22.22   | /       | 24.00   |
|                                              |            | 1       | 13        | /                    | 22.07   | /       | 24.00   |
|                                              |            | 1       | 24        | /                    | 22.09   | /       | 24.00   |
|                                              |            | 12      | 0         | /                    | 21.08   | /       | 23.00   |
|                                              |            | 12      | 6         | /                    | 21.12   | /       | 23.00   |
|                                              |            | 12      | 13        | /                    | 21.14   | /       | 23.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 16QAM      | 25      | 0         | /       | 21.24   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.09   | /       | 23.00   |
|           |            | 1       | 13        | /       | 21.19   | /       | 23.00   |
|           |            | 1       | 24        | /       | 21.12   | /       | 23.00   |
|           |            | 12      | 0         | /       | 20.21   | /       | 22.00   |
|           |            | 12      | 6         | /       | 20.13   | /       | 22.00   |
|           |            | 12      | 13        | /       | 20.15   | /       | 22.00   |
|           | 64QAM      | 25      | 0         | /       | 20.10   | /       | 22.00   |
|           |            | 1       | 0         | /       | 20.28   | /       | 22.00   |
|           |            | 1       | 13        | /       | 20.12   | /       | 22.00   |
|           |            | 1       | 24        | /       | 20.14   | /       | 22.00   |
|           |            | 12      | 0         | /       | 19.03   | /       | 21.00   |
|           |            | 12      | 6         | /       | 19.10   | /       | 21.00   |
|           |            | 12      | 13        | /       | 19.12   | /       | 21.00   |
|           | 256QAM     | 25      | 0         | /       | 19.14   | /       | 21.00   |
|           |            | 1       | 0         | /       | 17.15   | /       | 19.00   |
|           |            | 1       | 13        | /       | 17.06   | /       | 19.00   |
|           |            | 1       | 24        | /       | 17.27   | /       | 19.00   |
|           |            | 12      | 0         | /       | 17.13   | /       | 19.00   |
|           |            | 12      | 6         | /       | 17.25   | /       | 19.00   |
|           |            | 12      | 13        | /       | 17.14   | /       | 19.00   |
|           |            | 25      | 0         | /       | 17.14   | /       | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 27710   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 22.29   | /       | 24.00   |
|           |            | 1       | 25        | /       | 22.17   | /       | 24.00   |
|           |            | 1       | 49        | /       | 22.14   | /       | 24.00   |
|           |            | 25      | 0         | /       | 21.12   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.12   | /       | 23.00   |
|           |            | 25      | 25        | /       | 21.18   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.14   | /       | 23.00   |
|           | 16QAM      | 1       | 0         | /       | 21.13   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.13   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.16   | /       | 23.00   |
|           |            | 25      | 0         | /       | 20.16   | /       | 22.00   |
|           |            | 25      | 13        | /       | 20.22   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.14   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.13   | /       | 22.00   |
|           | 64QAM      | 1       | 0         | /       | 20.19   | /       | 22.00   |
|           |            | 1       | 25        | /       | 20.11   | /       | 22.00   |
|           |            | 1       | 49        | /       | 20.15   | /       | 22.00   |
|           |            | 25      | 0         | /       | 19.13   | /       | 21.00   |
|           |            | 25      | 13        | /       | 19.18   | /       | 21.00   |
|           |            | 25      | 25        | /       | 19.21   | /       | 21.00   |
|           |            | 50      | 0         | /       | 19.16   | /       | 21.00   |
|           | 256QAM     | 1       | 0         | /       | 17.18   | /       | 19.00   |
|           |            | 1       | 25        | /       | 17.12   | /       | 19.00   |
|           |            | 1       | 49        | /       | 17.22   | /       | 19.00   |
|           |            | 25      | 0         | /       | 17.18   | /       | 19.00   |
|           |            | 25      | 13        | /       | 17.17   | /       | 19.00   |
|           |            | 25      | 25        | /       | 17.16   | /       | 19.00   |
|           |            | 50      | 0         | /       | 17.20   | /       | 19.00   |

| LTE FDD Band 30 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | /                    | 27710   | /       |         |
| 5MHz                 | QPSK       | 1       | 0         | /                    | 21.77   | /       | 22.00   |
|                      |            | 1       | 13        | /                    | 21.70   | /       | 22.00   |
|                      |            | 1       | 24        | /                    | 21.53   | /       | 22.00   |
|                      |            | 12      | 0         | /                    | 21.66   | /       | 22.00   |
|                      |            | 12      | 6         | /                    | 21.65   | /       | 22.00   |
|                      |            | 12      | 13        | /                    | 21.49   | /       | 22.00   |
|                      |            | 25      | 0         | /                    | 21.57   | /       | 22.00   |
|                      | 16QAM      | 1       | 0         | /                    | 21.73   | /       | 22.00   |
|                      |            | 1       | 13        | /                    | 21.69   | /       | 22.00   |
|                      |            | 1       | 24        | /                    | 21.53   | /       | 22.00   |
|                      |            | 12      | 0         | /                    | 21.56   | /       | 22.00   |
|                      |            | 12      | 6         | /                    | 21.64   | /       | 22.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 13        | /       | 21.56   | /       | 22.00   |
|           |            | 25      | 0         | /       | 21.75   | /       | 22.00   |
|           | 64QAM      | 1       | 0         | /       | 21.60   | /       | 22.00   |
|           |            | 1       | 13        | /       | 21.61   | /       | 22.00   |
|           |            | 1       | 24        | /       | 21.68   | /       | 22.00   |
|           |            | 12      | 0         | /       | 20.58   | /       | 21.00   |
|           |            | 12      | 6         | /       | 20.64   | /       | 21.00   |
|           |            | 12      | 13        | /       | 20.55   | /       | 21.00   |
|           |            | 25      | 0         | /       | 20.55   | /       | 21.00   |
|           | 256QAM     | 1       | 0         | /       | 18.67   | /       | 19.00   |
|           |            | 1       | 13        | /       | 18.69   | /       | 19.00   |
|           |            | 1       | 24        | /       | 18.68   | /       | 19.00   |
|           |            | 12      | 0         | /       | 18.54   | /       | 19.00   |
|           |            | 12      | 6         | /       | 18.76   | /       | 19.00   |
|           |            | 12      | 13        | /       | 18.65   | /       | 19.00   |
|           |            | 25      | 0         | /       | 18.53   | /       | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 27710   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 21.76   | /       | 22.00   |
|           |            | 1       | 25        | /       | 21.65   | /       | 22.00   |
|           |            | 1       | 49        | /       | 21.62   | /       | 22.00   |
|           |            | 25      | 0         | /       | 21.65   | /       | 22.00   |
|           |            | 25      | 13        | /       | 21.59   | /       | 22.00   |
|           |            | 25      | 25        | /       | 21.59   | /       | 22.00   |
|           |            | 50      | 0         | /       | 21.63   | /       | 22.00   |
|           | 16QAM      | 1       | 0         | /       | 21.63   | /       | 22.00   |
|           |            | 1       | 25        | /       | 21.71   | /       | 22.00   |
|           |            | 1       | 49        | /       | 21.62   | /       | 22.00   |
|           |            | 25      | 0         | /       | 21.63   | /       | 22.00   |
|           |            | 25      | 13        | /       | 21.57   | /       | 22.00   |
|           |            | 25      | 25        | /       | 21.59   | /       | 22.00   |
|           |            | 50      | 0         | /       | 21.66   | /       | 22.00   |
|           | 64QAM      | 1       | 0         | /       | 21.61   | /       | 22.00   |
|           |            | 1       | 25        | /       | 21.69   | /       | 22.00   |
|           |            | 1       | 49        | /       | 21.64   | /       | 22.00   |
|           |            | 25      | 0         | /       | 20.64   | /       | 21.00   |
|           |            | 25      | 13        | /       | 20.65   | /       | 21.00   |
|           |            | 25      | 25        | /       | 20.60   | /       | 21.00   |
|           |            | 50      | 0         | /       | 20.63   | /       | 21.00   |
|           | 256QAM     | 1       | 0         | /       | 18.66   | /       | 19.00   |
|           |            | 1       | 25        | /       | 18.71   | /       | 19.00   |
|           |            | 1       | 49        | /       | 18.67   | /       | 19.00   |
|           |            | 25      | 0         | /       | 18.63   | /       | 19.00   |
|           |            | 25      | 13        | /       | 18.66   | /       | 19.00   |
|           |            | 25      | 25        | /       | 18.64   | /       | 19.00   |
|           |            | 50      | 0         | /       | 18.63   | /       | 19.00   |

| LTE FDD Band 30 Head For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                       |            |         |           | /                    | 27710   | /       |         |
| 5MHz                                  | QPSK       | 1       | 0         | /                    | 19.40   | /       | 19.50   |
|                                       |            | 1       | 13        | /                    | 19.07   | /       | 19.50   |
|                                       |            | 1       | 24        | /                    | 19.13   | /       | 19.50   |
|                                       |            | 12      | 0         | /                    | 19.27   | /       | 19.50   |
|                                       |            | 12      | 6         | /                    | 19.23   | /       | 19.50   |
|                                       |            | 12      | 13        | /                    | 19.03   | /       | 19.50   |
|                                       |            | 25      | 0         | /                    | 19.16   | /       | 19.50   |
|                                       | 16QAM      | 1       | 0         | /                    | 19.24   | /       | 19.50   |
|                                       |            | 1       | 13        | /                    | 19.17   | /       | 19.50   |
|                                       |            | 1       | 24        | /                    | 19.14   | /       | 19.50   |
|                                       |            | 12      | 0         | /                    | 19.12   | /       | 19.50   |
|                                       |            | 12      | 6         | /                    | 19.19   | /       | 19.50   |
|                                       |            | 12      | 13        | /                    | 19.10   | /       | 19.50   |
|                                       |            | 25      | 0         | /                    | 19.26   | /       | 19.50   |
|                                       | 64QAM      | 1       | 0         | /                    | 19.14   | /       | 19.50   |
|                                       |            | 1       | 13        | /                    | 19.20   | /       | 19.50   |
|                                       |            | 1       | 24        | /                    | 19.10   | /       | 19.50   |
|                                       |            | 12      | 0         | /                    | 19.16   | /       | 19.50   |

|           | 256QAM     | 12      | 6         | /       | 19.23   | /       | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 13        | /       | 19.15   | /       | 19.50   |
|           |            | 25      | 0         | /       | 19.31   | /       | 19.50   |
|           |            | 1       | 0         | /       | 18.57   | /       | 19.00   |
|           |            | 1       | 13        | /       | 18.64   | /       | 19.00   |
|           |            | 1       | 24        | /       | 18.69   | /       | 19.00   |
|           |            | 12      | 0         | /       | 18.62   | /       | 19.00   |
|           |            | 12      | 6         | /       | 18.76   | /       | 19.00   |
|           |            | 12      | 13        | /       | 18.61   | /       | 19.00   |
|           |            | 25      | 0         | /       | 18.71   | /       | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 27710   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 19.30   | /       | 19.50   |
|           |            | 1       | 25        | /       | 19.17   | /       | 19.50   |
|           |            | 1       | 49        | /       | 19.15   | /       | 19.50   |
|           |            | 25      | 0         | /       | 19.21   | /       | 19.50   |
|           |            | 25      | 13        | /       | 19.16   | /       | 19.50   |
|           |            | 25      | 25        | /       | 19.09   | /       | 19.50   |
|           | 16QAM      | 50      | 0         | /       | 19.09   | /       | 19.50   |
|           |            | 1       | 0         | /       | 19.14   | /       | 19.50   |
|           |            | 1       | 25        | /       | 19.24   | /       | 19.50   |
|           |            | 1       | 49        | /       | 19.09   | /       | 19.50   |
|           |            | 25      | 0         | /       | 19.17   | /       | 19.50   |
|           |            | 25      | 13        | /       | 19.15   | /       | 19.50   |
|           | 64QAM      | 25      | 25        | /       | 19.05   | /       | 19.50   |
|           |            | 50      | 0         | /       | 19.16   | /       | 19.50   |
|           |            | 1       | 0         | /       | 19.19   | /       | 19.50   |
|           |            | 1       | 25        | /       | 19.27   | /       | 19.50   |
|           |            | 1       | 49        | /       | 19.15   | /       | 19.50   |
|           |            | 25      | 0         | /       | 19.22   | /       | 19.50   |
|           | 256QAM     | 25      | 13        | /       | 19.15   | /       | 19.50   |
|           |            | 25      | 25        | /       | 19.07   | /       | 19.50   |
|           |            | 50      | 0         | /       | 19.22   | /       | 19.50   |
|           |            | 1       | 0         | /       | 18.67   | /       | 19.00   |
|           |            | 1       | 25        | /       | 18.71   | /       | 19.00   |
|           |            | 1       | 49        | /       | 18.63   | /       | 19.00   |
|           | 256QAM     | 25      | 0         | /       | 18.60   | /       | 19.00   |
|           |            | 25      | 13        | /       | 18.71   | /       | 19.00   |
|           |            | 25      | 25        | /       | 18.62   | /       | 19.00   |
|           |            | 50      | 0         | /       | 18.61   | /       | 19.00   |

| LTE FDD Band 30 Body worn For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                       | QPSK       | 1       | 0         | /                    | 27710   | /       | 21.00   |
|                                            |            | 1       | 13        | /                    | 20.90   | /       | 21.00   |
|                                            |            | 1       | 24        | /                    | 20.77   | /       | 21.00   |
|                                            |            | 12      | 0         | /                    | 20.78   | /       | 21.00   |
|                                            |            | 12      | 6         | /                    | 20.77   | /       | 21.00   |
|                                            |            | 12      | 13        | /                    | 20.71   | /       | 21.00   |
|                                            | 16QAM      | 25      | 0         | /                    | 20.52   | /       | 21.00   |
|                                            |            | 1       | 0         | /                    | 20.65   | /       | 21.00   |
|                                            |            | 1       | 13        | /                    | 20.68   | /       | 21.00   |
|                                            |            | 1       | 24        | /                    | 20.84   | /       | 21.00   |
|                                            |            | 12      | 0         | /                    | 20.67   | /       | 21.00   |
|                                            |            | 12      | 6         | /                    | 20.56   | /       | 21.00   |
|                                            | 64QAM      | 12      | 13        | /                    | 20.79   | /       | 21.00   |
|                                            |            | 12      | 25        | /                    | 20.53   | /       | 21.00   |
|                                            |            | 25      | 0         | /                    | 20.73   | /       | 21.00   |
|                                            |            | 1       | 0         | /                    | 20.64   | /       | 21.00   |
|                                            |            | 1       | 13        | /                    | 20.69   | /       | 21.00   |
|                                            |            | 1       | 24        | /                    | 20.66   | /       | 21.00   |
|                                            | 256QAM     | 12      | 0         | /                    | 20.59   | /       | 21.00   |
|                                            |            | 12      | 6         | /                    | 20.69   | /       | 21.00   |
|                                            |            | 12      | 13        | /                    | 20.61   | /       | 21.00   |
|                                            |            | 25      | 0         | /                    | 20.77   | /       | 21.00   |
|                                            |            | 1       | 0         | /                    | 18.59   | /       | 19.00   |
|                                            |            | 1       | 13        | /                    | 18.63   | /       | 19.00   |
|                                            |            | 1       | 24        | /                    | 18.60   | /       | 19.00   |

|           |            | 12      | 0         | /       | 18.59   | /       | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 6         | /       | 18.68   | /       | 19.00   |
|           |            | 12      | 13        | /       | 18.58   | /       | 19.00   |
|           |            | 25      | 0         | /       | 18.64   | /       | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 27710   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 20.85   | /       | 21.00   |
|           |            | 1       | 25        | /       | 20.67   | /       | 21.00   |
|           |            | 1       | 49        | /       | 20.73   | /       | 21.00   |
|           |            | 25      | 0         | /       | 20.74   | /       | 21.00   |
|           |            | 25      | 13        | /       | 20.65   | /       | 21.00   |
|           |            | 25      | 25        | /       | 20.59   | /       | 21.00   |
|           |            | 50      | 0         | /       | 20.56   | /       | 21.00   |
|           | 16QAM      | 1       | 0         | /       | 20.68   | /       | 21.00   |
|           |            | 1       | 25        | /       | 20.83   | /       | 21.00   |
|           |            | 1       | 49        | /       | 20.57   | /       | 21.00   |
|           |            | 25      | 0         | /       | 20.62   | /       | 21.00   |
|           |            | 25      | 13        | /       | 20.71   | /       | 21.00   |
|           |            | 25      | 25        | /       | 20.59   | /       | 21.00   |
|           |            | 50      | 0         | /       | 20.71   | /       | 21.00   |
|           | 64QAM      | 1       | 0         | /       | 20.67   | /       | 21.00   |
|           |            | 1       | 25        | /       | 20.76   | /       | 21.00   |
|           |            | 1       | 49        | /       | 20.64   | /       | 21.00   |
|           |            | 25      | 0         | /       | 20.68   | /       | 21.00   |
|           |            | 25      | 13        | /       | 20.66   | /       | 21.00   |
|           |            | 25      | 25        | /       | 20.58   | /       | 21.00   |
|           |            | 50      | 0         | /       | 20.76   | /       | 21.00   |
|           | 256QAM     | 1       | 0         | /       | 18.69   | /       | 19.00   |
|           |            | 1       | 25        | /       | 18.71   | /       | 19.00   |
|           |            | 1       | 49        | /       | 18.66   | /       | 19.00   |
|           |            | 25      | 0         | /       | 18.65   | /       | 19.00   |
|           |            | 25      | 13        | /       | 18.70   | /       | 19.00   |
|           |            | 25      | 25        | /       | 18.67   | /       | 19.00   |
|           |            | 50      | 0         | /       | 18.57   | /       | 19.00   |

| LTE Band 66 full power/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                          |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                                   | QPSK       | 1       | 0         | 23.35                | 23.32   | 23.26   | 25.00   |
|                                          |            | 1       | 2         | 23.27                | 23.11   | 23.01   | 25.00   |
|                                          |            | 1       | 5         | 23.26                | 23.49   | 23.47   | 25.00   |
|                                          |            | 3       | 0         | 23.21                | 23.32   | 23.31   | 25.00   |
|                                          |            | 3       | 1         | 23.14                | 23.30   | 23.53   | 25.00   |
|                                          |            | 3       | 3         | 23.31                | 23.20   | 23.23   | 25.00   |
|                                          |            | 6       | 0         | 22.52                | 22.07   | 22.14   | 24.00   |
|                                          | 16QAM      | 1       | 0         | 22.12                | 22.40   | 22.32   | 24.00   |
|                                          |            | 1       | 2         | 22.34                | 22.17   | 22.07   | 24.00   |
|                                          |            | 1       | 5         | 22.46                | 22.40   | 22.36   | 24.00   |
|                                          |            | 3       | 0         | 22.21                | 22.42   | 22.22   | 24.00   |
|                                          |            | 3       | 1         | 22.34                | 22.44   | 22.32   | 24.00   |
|                                          |            | 3       | 3         | 22.12                | 22.05   | 22.31   | 24.00   |
|                                          |            | 6       | 0         | 21.31                | 21.26   | 21.38   | 23.00   |
|                                          | 64QAM      | 1       | 0         | 21.50                | 21.35   | 21.24   | 23.00   |
|                                          |            | 1       | 2         | 21.31                | 21.44   | 21.31   | 23.00   |
|                                          |            | 1       | 5         | 21.17                | 21.21   | 21.51   | 23.00   |
|                                          |            | 3       | 0         | 21.37                | 21.22   | 21.18   | 23.00   |
|                                          |            | 3       | 1         | 21.40                | 21.19   | 21.26   | 23.00   |
|                                          |            | 3       | 3         | 21.37                | 21.17   | 21.34   | 23.00   |
|                                          |            | 6       | 0         | 20.43                | 20.21   | 20.03   | 22.00   |
|                                          | 256QAM     | 1       | 0         | 18.32                | 18.38   | 18.46   | 20.00   |
|                                          |            | 1       | 2         | 18.47                | 18.06   | 18.14   | 20.00   |
|                                          |            | 1       | 5         | 18.20                | 18.09   | 18.28   | 20.00   |
|                                          |            | 3       | 0         | 18.13                | 18.50   | 18.13   | 20.00   |
|                                          |            | 3       | 1         | 18.27                | 18.24   | 18.24   | 20.00   |
|                                          |            | 3       | 3         | 18.28                | 18.13   | 18.41   | 20.00   |
|                                          |            | 6       | 0         | 18.28                | 18.18   | 18.23   | 20.00   |
| Bandwidth                                | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                          |            |         |           | 131987               | 132322  | 132657  |         |

|           |            |         |           |         |         |         |         |       |       |       |
|-----------|------------|---------|-----------|---------|---------|---------|---------|-------|-------|-------|
| 3MHz      | QPSK       | 1       | 0         | 23.41   | 23.34   | 23.34   | 25.00   |       |       |       |
|           |            | 1       | 7         | 23.17   | 23.04   | 23.06   | 25.00   |       |       |       |
|           |            | 1       | 14        | 23.22   | 23.41   | 23.44   | 25.00   |       |       |       |
|           |            | 8       | 0         | 22.23   | 22.38   | 22.28   | 24.00   |       |       |       |
|           |            | 8       | 4         | 22.22   | 22.26   | 22.52   | 24.00   |       |       |       |
|           |            | 8       | 7         | 22.31   | 22.20   | 22.33   | 24.00   |       |       |       |
|           | 16QAM      | 15      | 0         | 22.55   | 22.03   | 22.16   | 24.00   |       |       |       |
|           |            | 1       | 0         | 22.10   | 22.45   | 22.27   | 24.00   |       |       |       |
|           |            | 1       | 7         | 22.31   | 22.19   | 22.17   | 24.00   |       |       |       |
|           |            | 1       | 14        | 22.42   | 22.35   | 22.36   | 24.00   |       |       |       |
|           |            | 8       | 0         | 21.22   | 21.42   | 21.26   | 23.00   |       |       |       |
|           |            | 8       | 4         | 21.33   | 21.49   | 21.25   | 23.00   |       |       |       |
|           | 64QAM      | 8       | 7         | 21.11   | 21.09   | 21.23   | 23.00   |       |       |       |
|           |            | 15      | 0         | 21.26   | 21.31   | 21.40   | 23.00   |       |       |       |
|           |            | 1       | 0         | 21.40   | 21.33   | 21.26   | 23.00   |       |       |       |
|           |            | 1       | 7         | 21.39   | 21.43   | 21.33   | 23.00   |       |       |       |
|           |            | 1       | 14        | 21.19   | 21.20   | 21.44   | 23.00   |       |       |       |
|           |            | 8       | 0         | 20.44   | 20.22   | 20.23   | 22.00   |       |       |       |
|           | 256QAM     | 8       | 4         | 20.34   | 20.18   | 20.29   | 22.00   |       |       |       |
|           |            | 8       | 7         | 20.46   | 20.15   | 20.33   | 22.00   |       |       |       |
|           |            | 15      | 0         | 20.39   | 20.20   | 20.05   | 22.00   |       |       |       |
|           |            | 1       | 0         | 18.32   | 18.39   | 18.50   | 20.00   |       |       |       |
|           |            | 1       | 7         | 18.51   | 18.12   | 18.16   | 20.00   |       |       |       |
|           |            | 1       | 14        | 18.21   | 18.08   | 18.21   | 20.00   |       |       |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |       |       |
|           |            |         |           | 131997  | 132322  | 132647  |         |       |       |       |
|           |            |         |           | 1       | 0       | 23.33   |         | 23.27 | 23.31 | 25.00 |
|           |            |         |           | 1       | 13      | 23.26   |         | 23.11 | 23.12 | 25.00 |
|           |            |         |           | 1       | 24      | 23.25   |         | 23.31 | 23.39 | 25.00 |
|           |            |         |           | 12      | 0       | 22.29   |         | 22.48 | 22.31 | 24.00 |
| 5MHz      | QPSK       | 12      | 6         | 22.24   | 22.17   | 22.42   | 24.00   |       |       |       |
|           |            | 12      | 13        | 22.22   | 22.23   | 22.26   | 24.00   |       |       |       |
|           |            | 25      | 0         | 22.47   | 22.08   | 22.20   | 24.00   |       |       |       |
|           |            | 1       | 0         | 22.11   | 22.45   | 22.35   | 24.00   |       |       |       |
|           |            | 1       | 13        | 22.35   | 22.21   | 22.27   | 24.00   |       |       |       |
|           |            | 1       | 24        | 22.34   | 22.27   | 22.44   | 24.00   |       |       |       |
|           | 16QAM      | 12      | 0         | 21.23   | 21.42   | 21.32   | 23.00   |       |       |       |
|           |            | 12      | 6         | 21.26   | 21.41   | 21.35   | 23.00   |       |       |       |
|           |            | 12      | 13        | 21.16   | 21.03   | 21.27   | 23.00   |       |       |       |
|           |            | 25      | 0         | 21.34   | 21.25   | 21.31   | 23.00   |       |       |       |
|           |            | 1       | 0         | 21.30   | 21.31   | 21.28   | 23.00   |       |       |       |
|           |            | 1       | 13        | 21.31   | 21.37   | 21.29   | 23.00   |       |       |       |
|           | 64QAM      | 1       | 24        | 21.25   | 21.22   | 21.36   | 23.00   |       |       |       |
|           |            | 12      | 0         | 20.46   | 20.21   | 20.21   | 22.00   |       |       |       |
|           |            | 12      | 6         | 20.36   | 20.08   | 20.26   | 22.00   |       |       |       |
|           |            | 12      | 13        | 20.39   | 20.18   | 20.27   | 22.00   |       |       |       |
|           |            | 25      | 0         | 20.39   | 20.22   | 20.11   | 22.00   |       |       |       |
|           |            | 1       | 0         | 18.40   | 18.45   | 18.46   | 20.00   |       |       |       |
|           | 256QAM     | 1       | 13        | 18.49   | 18.13   | 18.11   | 20.00   |       |       |       |
|           |            | 1       | 24        | 18.23   | 18.17   | 18.18   | 20.00   |       |       |       |
|           |            | 12      | 0         | 18.14   | 18.43   | 18.11   | 20.00   |       |       |       |
|           |            | 12      | 6         | 18.22   | 18.25   | 18.35   | 20.00   |       |       |       |
|           |            | 12      | 13        | 18.20   | 18.26   | 18.33   | 20.00   |       |       |       |
|           |            | 25      | 0         | 18.30   | 18.29   | 18.25   | 20.00   |       |       |       |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |       |       |       |
|           |            |         |           | 132022  | 132322  | 132622  |         |       |       |       |
| 10MHz     | QPSK       | 1       | 0         | 23.24   | 23.33   | 23.31   | 25.00   |       |       |       |
|           |            | 1       | 25        | 23.17   | 23.08   | 23.21   | 25.00   |       |       |       |
|           |            | 1       | 49        | 23.35   | 23.29   | 23.31   | 25.00   |       |       |       |
|           |            | 25      | 0         | 22.35   | 22.43   | 22.31   | 24.00   |       |       |       |
|           |            | 25      | 13        | 22.31   | 22.25   | 22.39   | 24.00   |       |       |       |
|           |            | 25      | 25        | 22.25   | 22.25   | 22.20   | 24.00   |       |       |       |
|           | 16QAM      | 50      | 0         | 22.45   | 22.12   | 22.24   | 24.00   |       |       |       |
|           |            | 1       | 0         | 22.16   | 22.40   | 22.40   | 24.00   |       |       |       |
|           |            | 1       | 25        | 22.34   | 22.27   | 22.19   | 24.00   |       |       |       |
|           |            | 1       | 49        | 22.43   | 22.33   | 22.38   | 24.00   |       |       |       |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 21.25   | 21.36   | 21.36   | 23.00   |
|           |            | 25      | 13        | 21.27   | 21.49   | 21.38   | 23.00   |
|           |            | 25      | 25        | 21.12   | 21.13   | 21.32   | 23.00   |
|           |            | 50      | 0         | 21.30   | 21.27   | 21.36   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.20   | 21.26   | 21.34   | 23.00   |
|           |            | 1       | 25        | 21.35   | 21.28   | 21.30   | 23.00   |
|           |            | 1       | 49        | 21.33   | 21.22   | 21.39   | 23.00   |
|           |            | 25      | 0         | 20.52   | 20.24   | 20.31   | 22.00   |
|           |            | 25      | 13        | 20.26   | 20.14   | 20.19   | 22.00   |
|           |            | 25      | 25        | 20.34   | 20.25   | 20.25   | 22.00   |
|           |            | 50      | 0         | 20.32   | 20.26   | 20.18   | 22.00   |
|           |            | 1       | 0         | 18.31   | 18.44   | 18.42   | 20.00   |
|           | 256QAM     | 1       | 25        | 18.43   | 18.23   | 18.20   | 20.00   |
|           |            | 1       | 49        | 18.18   | 18.21   | 18.18   | 20.00   |
|           |            | 25      | 0         | 18.17   | 18.45   | 18.16   | 20.00   |
|           |            | 25      | 13        | 18.31   | 18.20   | 18.40   | 20.00   |
|           |            | 25      | 25        | 18.26   | 18.32   | 18.39   | 20.00   |
|           |            | 50      | 0         | 18.32   | 18.33   | 18.24   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 23.21   | 23.31   | 23.36   | 25.00   |
|           |            | 1       | 38        | 23.18   | 23.18   | 23.27   | 25.00   |
|           |            | 1       | 74        | 23.30   | 23.23   | 23.36   | 25.00   |
|           |            | 36      | 0         | 22.40   | 22.35   | 22.29   | 24.00   |
|           |            | 36      | 18        | 22.34   | 22.28   | 22.31   | 24.00   |
|           |            | 36      | 39        | 22.20   | 22.22   | 22.26   | 24.00   |
|           |            | 75      | 0         | 22.38   | 22.22   | 22.32   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.23   | 22.31   | 22.32   | 24.00   |
|           |            | 1       | 38        | 22.32   | 22.20   | 22.26   | 24.00   |
|           |            | 1       | 74        | 22.37   | 22.28   | 22.38   | 24.00   |
|           |            | 36      | 0         | 21.23   | 21.44   | 21.34   | 23.00   |
|           |            | 36      | 18        | 21.33   | 21.39   | 21.35   | 23.00   |
|           |            | 36      | 39        | 21.19   | 21.23   | 21.27   | 23.00   |
|           |            | 75      | 0         | 21.24   | 21.30   | 21.26   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.25   | 21.34   | 21.28   | 23.00   |
|           |            | 1       | 38        | 21.25   | 21.30   | 21.34   | 23.00   |
|           |            | 1       | 74        | 21.23   | 21.28   | 21.32   | 23.00   |
|           |            | 36      | 0         | 20.42   | 20.20   | 20.35   | 22.00   |
|           |            | 36      | 18        | 20.32   | 20.22   | 20.27   | 22.00   |
|           |            | 36      | 39        | 20.30   | 20.30   | 20.21   | 22.00   |
|           |            | 75      | 0         | 20.31   | 20.30   | 20.23   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.30   | 18.37   | 18.35   | 20.00   |
|           |            | 1       | 38        | 18.34   | 18.22   | 18.25   | 20.00   |
|           |            | 1       | 74        | 18.22   | 18.26   | 18.27   | 20.00   |
|           |            | 36      | 0         | 18.27   | 18.35   | 18.17   | 20.00   |
|           |            | 36      | 18        | 18.39   | 18.29   | 18.31   | 20.00   |
|           |            | 36      | 39        | 18.24   | 18.41   | 18.36   | 20.00   |
|           |            | 75      | 0         | 18.37   | 18.29   | 18.30   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 23.60   | 23.70   | 23.68   | 25.00   |
|           |            | 1       | 50        | 23.57   | 23.58   | 23.64   | 25.00   |
|           |            | 1       | 99        | 23.59   | 23.61   | 23.60   | 25.00   |
|           |            | 50      | 0         | 22.67   | 22.68   | 22.64   | 24.00   |
|           |            | 50      | 25        | 22.60   | 22.54   | 22.59   | 24.00   |
|           |            | 50      | 50        | 22.54   | 22.60   | 22.58   | 24.00   |
|           |            | 100     | 0         | 22.62   | 22.65   | 22.62   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.58   | 22.59   | 22.65   | 24.00   |
|           |            | 1       | 50        | 22.63   | 22.59   | 22.59   | 24.00   |
|           |            | 1       | 99        | 22.58   | 22.59   | 22.62   | 24.00   |
|           |            | 50      | 0         | 21.56   | 21.64   | 21.54   | 23.00   |
|           |            | 50      | 25        | 21.65   | 21.59   | 21.59   | 23.00   |
|           |            | 50      | 50        | 21.58   | 21.61   | 21.63   | 23.00   |
|           |            | 100     | 0         | 21.57   | 21.61   | 21.63   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.57   | 21.62   | 21.57   | 23.00   |
|           |            | 1       | 50        | 21.57   | 21.58   | 21.64   | 23.00   |
|           |            | 1       | 99        | 21.63   | 21.57   | 21.58   | 23.00   |
|           |            | 50      | 0         | 20.64   | 20.56   | 20.66   | 22.00   |
|           |            | 50      | 25        | 20.61   | 20.60   | 20.62   | 22.00   |
|           |            | 50      | 50        | 20.64   | 20.61   | 20.61   | 22.00   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  | 256QAM | 100 | 0  | 20.65 | 20.58 | 20.62 | 22.00 |
|  |        | 1   | 0  | 18.65 | 18.57 | 18.55 | 20.00 |
|  |        | 1   | 50 | 18.60 | 18.59 | 18.57 | 20.00 |
|  |        | 1   | 99 | 18.55 | 18.60 | 18.63 | 20.00 |
|  |        | 50  | 0  | 18.62 | 18.57 | 18.56 | 20.00 |
|  |        | 50  | 25 | 18.67 | 18.58 | 18.62 | 20.00 |
|  |        | 50  | 50 | 18.55 | 18.61 | 18.61 | 20.00 |
|  |        | 100 | 0  | 18.57 | 18.59 | 18.58 | 20.00 |

| LTE Band 66 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz           | QPSK       | 1       | 0         | 21.07                | 21.42   | 21.34   | 23.00   |
|                  |            | 1       | 2         | 21.28                | 21.45   | 21.26   | 23.00   |
|                  |            | 1       | 5         | 21.28                | 21.20   | 21.16   | 23.00   |
|                  |            | 3       | 0         | 21.33                | 21.45   | 21.26   | 23.00   |
|                  |            | 3       | 1         | 21.20                | 21.29   | 21.30   | 23.00   |
|                  |            | 3       | 3         | 21.33                | 21.46   | 21.31   | 23.00   |
|                  |            | 6       | 0         | 21.10                | 21.35   | 21.25   | 23.00   |
|                  | 16QAM      | 1       | 0         | 21.08                | 21.32   | 21.12   | 23.00   |
|                  |            | 1       | 2         | 21.09                | 21.22   | 21.46   | 23.00   |
|                  |            | 1       | 5         | 21.11                | 21.32   | 21.38   | 23.00   |
|                  |            | 3       | 0         | 21.42                | 21.42   | 21.36   | 23.00   |
|                  |            | 3       | 1         | 21.42                | 21.44   | 21.13   | 23.00   |
|                  |            | 3       | 3         | 21.03                | 21.48   | 21.14   | 23.00   |
|                  |            | 6       | 0         | 21.39                | 21.28   | 21.37   | 23.00   |
|                  | 64QAM      | 1       | 0         | 21.28                | 21.19   | 21.12   | 23.00   |
|                  |            | 1       | 2         | 21.03                | 21.25   | 21.10   | 23.00   |
|                  |            | 1       | 5         | 21.19                | 21.20   | 21.58   | 23.00   |
|                  |            | 3       | 0         | 21.24                | 21.21   | 21.49   | 23.00   |
|                  |            | 3       | 1         | 21.05                | 21.04   | 21.34   | 23.00   |
|                  |            | 3       | 3         | 21.48                | 21.43   | 21.01   | 23.00   |
|                  |            | 6       | 0         | 20.30                | 20.24   | 20.20   | 22.00   |
|                  | 256QAM     | 1       | 0         | 18.28                | 18.38   | 18.26   | 20.00   |
|                  |            | 1       | 2         | 18.22                | 18.44   | 18.41   | 20.00   |
|                  |            | 1       | 5         | 18.23                | 18.26   | 18.42   | 20.00   |
|                  |            | 3       | 0         | 18.01                | 18.32   | 18.22   | 20.00   |
|                  |            | 3       | 1         | 18.08                | 18.31   | 18.38   | 20.00   |
|                  |            | 3       | 3         | 18.33                | 18.29   | 18.48   | 20.00   |
|                  |            | 6       | 0         | 18.21                | 18.33   | 18.37   | 20.00   |
| 3MHz             | QPSK       | 1       | 0         | 21.08                | 21.34   | 21.35   | 23.00   |
|                  |            | 1       | 7         | 21.24                | 21.46   | 21.23   | 23.00   |
|                  |            | 1       | 14        | 21.33                | 21.17   | 21.15   | 23.00   |
|                  |            | 8       | 0         | 21.42                | 21.39   | 21.33   | 23.00   |
|                  |            | 8       | 4         | 21.24                | 21.28   | 21.24   | 23.00   |
|                  |            | 8       | 7         | 21.23                | 21.39   | 21.22   | 23.00   |
|                  |            | 15      | 0         | 21.13                | 21.41   | 21.23   | 23.00   |
|                  | 16QAM      | 1       | 0         | 21.04                | 21.23   | 21.19   | 23.00   |
|                  |            | 1       | 7         | 21.18                | 21.24   | 21.37   | 23.00   |
|                  |            | 1       | 14        | 21.15                | 21.27   | 21.39   | 23.00   |
|                  |            | 8       | 0         | 21.33                | 21.48   | 21.43   | 23.00   |
|                  |            | 8       | 4         | 21.45                | 21.39   | 21.15   | 23.00   |
|                  |            | 8       | 7         | 21.03                | 21.43   | 21.17   | 23.00   |
|                  |            | 15      | 0         | 21.37                | 21.34   | 21.44   | 23.00   |
|                  | 64QAM      | 1       | 0         | 21.25                | 21.16   | 21.16   | 23.00   |
|                  |            | 1       | 7         | 21.13                | 21.27   | 21.20   | 23.00   |
|                  |            | 1       | 14        | 21.16                | 21.18   | 21.49   | 23.00   |
|                  |            | 8       | 0         | 20.34                | 20.20   | 20.46   | 22.00   |
|                  |            | 8       | 4         | 20.04                | 20.09   | 20.28   | 22.00   |
|                  |            | 8       | 7         | 20.51                | 20.36   | 20.08   | 22.00   |
|                  |            | 15      | 0         | 20.40                | 20.29   | 20.29   | 22.00   |
|                  | 256QAM     | 1       | 0         | 18.35                | 18.43   | 18.18   | 20.00   |
|                  |            | 1       | 7         | 18.26                | 18.44   | 18.46   | 20.00   |
|                  |            | 1       | 14        | 18.13                | 18.33   | 18.34   | 20.00   |
|                  |            | 8       | 0         | 18.11                | 18.26   | 18.17   | 20.00   |
|                  |            | 8       | 4         | 18.14                | 18.32   | 18.28   | 20.00   |

|           |            | 8       | 7         | 18.26   | 18.22   | 18.43   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 15      | 0         | 18.21   | 18.24   | 18.27   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 21.16   | 21.38   | 21.26   | 23.00   |
|           |            | 1       | 13        | 21.19   | 21.39   | 21.27   | 23.00   |
|           |            | 1       | 24        | 21.29   | 21.19   | 21.25   | 23.00   |
|           |            | 12      | 0         | 21.36   | 21.41   | 21.37   | 23.00   |
|           |            | 12      | 6         | 21.25   | 21.32   | 21.28   | 23.00   |
|           |            | 12      | 13        | 21.28   | 21.42   | 21.28   | 23.00   |
|           |            | 25      | 0         | 21.18   | 21.37   | 21.27   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.14   | 21.26   | 21.14   | 23.00   |
|           |            | 1       | 13        | 21.27   | 21.15   | 21.38   | 23.00   |
|           |            | 1       | 24        | 21.24   | 21.33   | 21.34   | 23.00   |
|           |            | 12      | 0         | 21.29   | 21.43   | 21.41   | 23.00   |
|           |            | 12      | 6         | 21.41   | 21.39   | 21.19   | 23.00   |
|           |            | 12      | 13        | 21.10   | 21.39   | 21.21   | 23.00   |
|           |            | 25      | 0         | 21.27   | 21.36   | 21.35   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.19   | 21.18   | 21.10   | 23.00   |
|           |            | 1       | 13        | 21.21   | 21.34   | 21.30   | 23.00   |
|           |            | 1       | 24        | 21.24   | 21.13   | 21.43   | 23.00   |
|           |            | 12      | 0         | 20.40   | 20.28   | 20.40   | 22.00   |
|           |            | 12      | 6         | 20.06   | 20.15   | 20.27   | 22.00   |
|           |            | 12      | 13        | 20.56   | 20.46   | 20.17   | 22.00   |
|           |            | 25      | 0         | 20.45   | 20.26   | 20.23   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.27   | 18.42   | 18.14   | 20.00   |
|           |            | 1       | 13        | 18.20   | 18.45   | 18.42   | 20.00   |
|           |            | 1       | 24        | 18.17   | 18.38   | 18.28   | 20.00   |
|           |            | 12      | 0         | 18.10   | 18.30   | 18.23   | 20.00   |
|           |            | 12      | 6         | 18.24   | 18.24   | 18.29   | 20.00   |
|           |            | 12      | 13        | 18.19   | 18.12   | 18.40   | 20.00   |
|           |            | 25      | 0         | 18.18   | 18.31   | 18.17   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 21.26   | 21.40   | 21.30   | 23.00   |
|           |            | 1       | 25        | 21.23   | 21.34   | 21.28   | 23.00   |
|           |            | 1       | 49        | 21.30   | 21.29   | 21.35   | 23.00   |
|           |            | 25      | 0         | 21.28   | 21.51   | 21.28   | 23.00   |
|           |            | 25      | 13        | 21.30   | 21.38   | 21.34   | 23.00   |
|           |            | 25      | 25        | 21.38   | 21.37   | 21.30   | 23.00   |
|           |            | 50      | 0         | 21.24   | 21.37   | 21.35   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.07   | 21.24   | 21.15   | 23.00   |
|           |            | 1       | 25        | 21.33   | 21.23   | 21.28   | 23.00   |
|           |            | 1       | 49        | 21.16   | 21.26   | 21.27   | 23.00   |
|           |            | 25      | 0         | 21.24   | 21.43   | 21.41   | 23.00   |
|           |            | 25      | 13        | 21.46   | 21.31   | 21.26   | 23.00   |
|           |            | 25      | 25        | 21.19   | 21.44   | 21.31   | 23.00   |
|           |            | 50      | 0         | 21.18   | 21.31   | 21.28   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.27   | 21.18   | 21.05   | 23.00   |
|           |            | 1       | 25        | 21.21   | 21.30   | 21.34   | 23.00   |
|           |            | 1       | 49        | 21.28   | 21.18   | 21.39   | 23.00   |
|           |            | 25      | 0         | 20.37   | 20.24   | 20.37   | 22.00   |
|           |            | 25      | 13        | 20.11   | 20.19   | 20.34   | 22.00   |
|           |            | 25      | 25        | 20.47   | 20.39   | 20.23   | 22.00   |
|           |            | 50      | 0         | 20.36   | 20.25   | 20.21   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.28   | 18.47   | 18.24   | 20.00   |
|           |            | 1       | 25        | 18.25   | 18.38   | 18.34   | 20.00   |
|           |            | 1       | 49        | 18.19   | 18.28   | 18.34   | 20.00   |
|           |            | 25      | 0         | 18.12   | 18.28   | 18.18   | 20.00   |
|           |            | 25      | 13        | 18.21   | 18.33   | 18.34   | 20.00   |
|           |            | 25      | 25        | 18.22   | 18.19   | 18.34   | 20.00   |
|           |            | 50      | 0         | 18.25   | 18.26   | 18.18   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 21.35   | 21.47   | 21.29   | 23.00   |
|           |            | 1       | 38        | 21.14   | 21.32   | 21.29   | 23.00   |
|           |            | 1       | 74        | 21.27   | 21.22   | 21.28   | 23.00   |
|           |            | 36      | 0         | 21.28   | 21.43   | 21.25   | 23.00   |
|           |            | 36      | 18        | 21.30   | 21.34   | 21.41   | 23.00   |
|           |            | 36      | 39        | 21.28   | 21.28   | 21.32   | 23.00   |

|           | 16QAM      | 75      | 0         | 21.27   | 21.31   | 21.36   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 21.15   | 21.31   | 21.25   | 23.00   |
|           |            | 1       | 38        | 21.37   | 21.20   | 21.28   | 23.00   |
|           |            | 1       | 74        | 21.24   | 21.36   | 21.21   | 23.00   |
|           |            | 36      | 0         | 21.22   | 21.47   | 21.32   | 23.00   |
|           |            | 36      | 18        | 21.39   | 21.29   | 21.23   | 23.00   |
|           |            | 36      | 39        | 21.23   | 21.39   | 21.40   | 23.00   |
|           | 64QAM      | 75      | 0         | 21.20   | 21.23   | 21.21   | 23.00   |
|           |            | 1       | 0         | 21.31   | 21.22   | 21.13   | 23.00   |
|           |            | 1       | 38        | 21.17   | 21.22   | 21.32   | 23.00   |
|           |            | 1       | 74        | 21.38   | 21.16   | 21.30   | 23.00   |
|           |            | 36      | 0         | 20.33   | 20.14   | 20.28   | 22.00   |
|           |            | 36      | 18        | 20.16   | 20.19   | 20.28   | 22.00   |
|           |            | 36      | 39        | 20.39   | 20.33   | 20.31   | 22.00   |
|           | 256QAM     | 75      | 0         | 20.37   | 20.34   | 20.20   | 22.00   |
|           |            | 1       | 0         | 18.34   | 18.38   | 18.19   | 20.00   |
|           |            | 1       | 38        | 18.25   | 18.36   | 18.28   | 20.00   |
|           |            | 1       | 74        | 18.29   | 18.22   | 18.24   | 20.00   |
|           |            | 36      | 0         | 18.22   | 18.37   | 18.13   | 20.00   |
|           |            | 36      | 18        | 18.27   | 18.25   | 18.24   | 20.00   |
|           |            | 36      | 39        | 18.28   | 18.19   | 18.37   | 20.00   |
|           |            | 75      | 0         | 18.34   | 18.21   | 18.26   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 21.53   | 21.74   | 21.60   | 23.00   |
|           |            | 1       | 50        | 21.51   | 21.56   | 21.55   | 23.00   |
|           |            | 1       | 99        | 21.55   | 21.54   | 21.60   | 23.00   |
|           |            | 50      | 0         | 21.55   | 21.66   | 21.62   | 23.00   |
|           |            | 50      | 25        | 21.51   | 21.53   | 21.63   | 23.00   |
|           |            | 50      | 50        | 21.57   | 21.58   | 21.56   | 23.00   |
|           |            | 100     | 0         | 21.52   | 21.65   | 21.63   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.51   | 21.59   | 21.59   | 23.00   |
|           |            | 1       | 50        | 21.58   | 21.55   | 21.59   | 23.00   |
|           |            | 1       | 99        | 21.55   | 21.53   | 21.58   | 23.00   |
|           |            | 50      | 0         | 21.50   | 21.64   | 21.52   | 23.00   |
|           |            | 50      | 25        | 21.63   | 21.56   | 21.52   | 23.00   |
|           |            | 50      | 50        | 21.52   | 21.60   | 21.60   | 23.00   |
|           |            | 100     | 0         | 21.55   | 21.56   | 21.56   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.25   | 21.30   | 21.23   | 23.00   |
|           |            | 1       | 50        | 21.26   | 21.25   | 21.35   | 23.00   |
|           |            | 1       | 99        | 21.35   | 21.26   | 21.27   | 23.00   |
|           |            | 50      | 0         | 20.33   | 20.24   | 20.36   | 22.00   |
|           |            | 50      | 25        | 20.26   | 20.27   | 20.34   | 22.00   |
|           |            | 50      | 50        | 20.32   | 20.33   | 20.34   | 22.00   |
|           |            | 100     | 0         | 20.36   | 20.30   | 20.28   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.35   | 18.28   | 18.20   | 20.00   |
|           |            | 1       | 50        | 18.32   | 18.30   | 18.22   | 20.00   |
|           |            | 1       | 99        | 18.27   | 18.25   | 18.34   | 20.00   |
|           |            | 50      | 0         | 18.31   | 18.30   | 18.22   | 20.00   |
|           |            | 50      | 25        | 18.37   | 18.28   | 18.28   | 20.00   |
|           |            | 50      | 50        | 18.20   | 18.29   | 18.27   | 20.00   |
|           |            | 100     | 0         | 18.29   | 18.25   | 18.27   | 20.00   |

| LTE Band 66 Head For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                            | QPSK       | 1       | 0         | 18.58                | 18.63   | 18.53   | 20.00   |
|                                   |            | 1       | 2         | 18.50                | 18.37   | 18.60   | 20.00   |
|                                   |            | 1       | 5         | 18.54                | 18.39   | 18.59   | 20.00   |
|                                   |            | 3       | 0         | 18.52                | 18.69   | 18.59   | 20.00   |
|                                   |            | 3       | 1         | 18.51                | 18.42   | 18.69   | 20.00   |
|                                   |            | 3       | 3         | 18.47                | 18.52   | 18.59   | 20.00   |
|                                   |            | 6       | 0         | 18.41                | 18.53   | 18.49   | 20.00   |
|                                   | 16QAM      | 1       | 0         | 18.58                | 18.51   | 18.54   | 20.00   |
|                                   |            | 1       | 2         | 18.65                | 18.50   | 18.49   | 20.00   |
|                                   |            | 1       | 5         | 18.54                | 18.52   | 18.53   | 20.00   |
|                                   |            | 3       | 0         | 18.47                | 18.59   | 18.41   | 20.00   |
|                                   |            | 3       | 1         | 18.55                | 18.61   | 18.46   | 20.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 3         | 18.44   | 18.54   | 18.57   | 20.00   |
|           |            | 6       | 0         | 18.45   | 18.47   | 18.56   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.28   | 18.30   | 18.15   | 20.00   |
|           |            | 1       | 2         | 18.23   | 18.17   | 18.36   | 20.00   |
|           |            | 1       | 5         | 18.29   | 18.08   | 18.25   | 20.00   |
|           |            | 3       | 0         | 18.34   | 18.22   | 18.36   | 20.00   |
|           |            | 3       | 1         | 18.26   | 18.34   | 18.31   | 20.00   |
|           |            | 3       | 3         | 18.29   | 18.33   | 18.36   | 20.00   |
|           |            | 6       | 0         | 18.31   | 18.17   | 18.24   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.28   | 18.38   | 18.26   | 20.00   |
|           |            | 1       | 2         | 18.22   | 18.44   | 18.41   | 20.00   |
|           |            | 1       | 5         | 18.23   | 18.26   | 18.42   | 20.00   |
|           |            | 3       | 0         | 18.01   | 18.32   | 18.22   | 20.00   |
|           |            | 3       | 1         | 18.08   | 18.31   | 18.38   | 20.00   |
|           |            | 3       | 3         | 18.33   | 18.29   | 18.48   | 20.00   |
|           |            | 6       | 0         | 18.21   | 18.33   | 18.37   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131987  | 132322  | 132657  |         |
| 3MHz      | QPSK       | 1       | 0         | 18.57   | 18.69   | 18.48   | 20.00   |
|           |            | 1       | 7         | 18.60   | 18.46   | 18.59   | 20.00   |
|           |            | 1       | 14        | 18.59   | 18.46   | 18.52   | 20.00   |
|           |            | 8       | 0         | 18.54   | 18.67   | 18.52   | 20.00   |
|           |            | 8       | 4         | 18.38   | 18.56   | 18.67   | 20.00   |
|           |            | 8       | 7         | 18.48   | 18.53   | 18.56   | 20.00   |
|           |            | 15      | 0         | 18.39   | 18.59   | 18.61   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.48   | 18.59   | 18.52   | 20.00   |
|           |            | 1       | 7         | 18.59   | 18.39   | 18.52   | 20.00   |
|           |            | 1       | 14        | 18.62   | 18.56   | 18.64   | 20.00   |
|           |            | 8       | 0         | 18.46   | 18.55   | 18.45   | 20.00   |
|           |            | 8       | 4         | 18.54   | 18.58   | 18.45   | 20.00   |
|           |            | 8       | 7         | 18.49   | 18.59   | 18.63   | 20.00   |
|           |            | 15      | 0         | 18.59   | 18.44   | 18.46   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.19   | 18.28   | 18.23   | 20.00   |
|           |            | 1       | 7         | 18.33   | 18.28   | 18.29   | 20.00   |
|           |            | 1       | 14        | 18.30   | 18.18   | 18.22   | 20.00   |
|           |            | 8       | 0         | 18.33   | 18.19   | 18.39   | 20.00   |
|           |            | 8       | 4         | 18.21   | 18.20   | 18.28   | 20.00   |
|           |            | 8       | 7         | 18.30   | 18.31   | 18.34   | 20.00   |
|           |            | 15      | 0         | 18.27   | 18.31   | 18.19   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.35   | 18.43   | 18.18   | 20.00   |
|           |            | 1       | 7         | 18.26   | 18.44   | 18.46   | 20.00   |
|           |            | 1       | 14        | 18.13   | 18.33   | 18.34   | 20.00   |
|           |            | 8       | 0         | 18.11   | 18.26   | 18.17   | 20.00   |
|           |            | 8       | 4         | 18.14   | 18.32   | 18.28   | 20.00   |
|           |            | 8       | 7         | 18.26   | 18.22   | 18.43   | 20.00   |
|           |            | 15      | 0         | 18.21   | 18.24   | 18.27   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 18.57   | 18.69   | 18.59   | 20.00   |
|           |            | 1       | 13        | 18.51   | 18.50   | 18.59   | 20.00   |
|           |            | 1       | 24        | 18.61   | 18.46   | 18.65   | 20.00   |
|           |            | 12      | 0         | 18.50   | 18.68   | 18.52   | 20.00   |
|           |            | 12      | 6         | 18.50   | 18.52   | 18.55   | 20.00   |
|           |            | 12      | 13        | 18.50   | 18.58   | 18.55   | 20.00   |
|           |            | 25      | 0         | 18.47   | 18.58   | 18.53   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.49   | 18.51   | 18.58   | 20.00   |
|           |            | 1       | 13        | 18.56   | 18.41   | 18.57   | 20.00   |
|           |            | 1       | 24        | 18.53   | 18.55   | 18.56   | 20.00   |
|           |            | 12      | 0         | 18.57   | 18.56   | 18.41   | 20.00   |
|           |            | 12      | 6         | 18.49   | 18.50   | 18.51   | 20.00   |
|           |            | 12      | 13        | 18.44   | 18.56   | 18.67   | 20.00   |
|           |            | 25      | 0         | 18.59   | 18.51   | 18.47   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.20   | 18.27   | 18.13   | 20.00   |
|           |            | 1       | 13        | 18.30   | 18.30   | 18.26   | 20.00   |
|           |            | 1       | 24        | 18.33   | 18.20   | 18.32   | 20.00   |
|           |            | 12      | 0         | 18.36   | 18.15   | 18.36   | 20.00   |
|           |            | 12      | 6         | 18.29   | 18.20   | 18.31   | 20.00   |
|           |            | 12      | 13        | 18.19   | 18.30   | 18.37   | 20.00   |
|           |            | 25      | 0         | 18.24   | 18.28   | 18.21   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.27   | 18.42   | 18.14   | 20.00   |

|           |            | 1       | 13        | 18.20   | 18.45   | 18.42   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 24        | 18.17   | 18.38   | 18.28   | 20.00   |
|           |            | 12      | 0         | 18.10   | 18.30   | 18.23   | 20.00   |
|           |            | 12      | 6         | 18.24   | 18.24   | 18.29   | 20.00   |
|           |            | 12      | 13        | 18.19   | 18.12   | 18.40   | 20.00   |
|           |            | 25      | 0         | 18.18   | 18.31   | 18.17   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 18.48   | 18.72   | 18.62   | 20.00   |
|           |            | 1       | 25        | 18.47   | 18.39   | 18.63   | 20.00   |
|           |            | 1       | 49        | 18.49   | 18.51   | 18.61   | 20.00   |
|           |            | 25      | 0         | 18.51   | 18.66   | 18.51   | 20.00   |
|           |            | 25      | 13        | 18.50   | 18.52   | 18.67   | 20.00   |
|           |            | 25      | 25        | 18.54   | 18.58   | 18.52   | 20.00   |
|           | 16QAM      | 50      | 0         | 18.42   | 18.60   | 18.54   | 20.00   |
|           |            | 1       | 0         | 18.48   | 18.60   | 18.54   | 20.00   |
|           |            | 1       | 25        | 18.57   | 18.37   | 18.55   | 20.00   |
|           |            | 1       | 49        | 18.59   | 18.52   | 18.56   | 20.00   |
|           |            | 25      | 0         | 18.56   | 18.50   | 18.41   | 20.00   |
|           |            | 25      | 13        | 18.52   | 18.62   | 18.45   | 20.00   |
|           | 64QAM      | 25      | 25        | 18.55   | 18.48   | 18.58   | 20.00   |
|           |            | 50      | 0         | 18.55   | 18.49   | 18.57   | 20.00   |
|           |            | 1       | 0         | 18.18   | 18.22   | 18.25   | 20.00   |
|           |            | 1       | 25        | 18.27   | 18.28   | 18.38   | 20.00   |
|           |            | 1       | 49        | 18.38   | 18.21   | 18.28   | 20.00   |
|           |            | 25      | 0         | 18.40   | 18.19   | 18.35   | 20.00   |
|           | 256QAM     | 25      | 13        | 18.22   | 18.30   | 18.24   | 20.00   |
|           |            | 25      | 25        | 18.29   | 18.28   | 18.35   | 20.00   |
|           |            | 50      | 0         | 18.23   | 18.22   | 18.14   | 20.00   |
|           |            | 1       | 0         | 18.28   | 18.47   | 18.24   | 20.00   |
|           |            | 1       | 25        | 18.25   | 18.38   | 18.34   | 20.00   |
|           |            | 1       | 49        | 18.19   | 18.28   | 18.34   | 20.00   |
| 15MHz     | QPSK       | 25      | 0         | 18.12   | 18.28   | 18.18   | 20.00   |
|           |            | 25      | 13        | 18.21   | 18.33   | 18.34   | 20.00   |
|           |            | 25      | 25        | 18.22   | 18.19   | 18.34   | 20.00   |
|           |            | 50      | 0         | 18.25   | 18.26   | 18.18   | 20.00   |
|           |            | 1       | 0         | 18.56   | 18.72   | 18.56   | 20.00   |
|           |            | 1       | 38        | 18.55   | 18.52   | 18.59   | 20.00   |
|           | 16QAM      | 1       | 74        | 18.49   | 18.45   | 18.65   | 20.00   |
|           |            | 36      | 0         | 18.44   | 18.62   | 18.59   | 20.00   |
|           |            | 36      | 18        | 18.39   | 18.54   | 18.65   | 20.00   |
|           |            | 36      | 39        | 18.51   | 18.53   | 18.62   | 20.00   |
|           |            | 75      | 0         | 18.54   | 18.66   | 18.47   | 20.00   |
|           |            | 1       | 0         | 18.56   | 18.56   | 18.53   | 20.00   |
|           | 64QAM      | 1       | 38        | 18.63   | 18.50   | 18.47   | 20.00   |
|           |            | 1       | 74        | 18.54   | 18.56   | 18.56   | 20.00   |
|           |            | 36      | 0         | 18.51   | 18.49   | 18.50   | 20.00   |
|           |            | 36      | 18        | 18.51   | 18.61   | 18.43   | 20.00   |
|           |            | 36      | 39        | 18.45   | 18.57   | 18.58   | 20.00   |
|           |            | 75      | 0         | 18.48   | 18.50   | 18.58   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.27   | 18.21   | 18.24   | 20.00   |
|           |            | 1       | 38        | 18.28   | 18.19   | 18.36   | 20.00   |
|           |            | 1       | 74        | 18.35   | 18.20   | 18.19   | 20.00   |
|           |            | 36      | 0         | 18.38   | 18.12   | 18.37   | 20.00   |
|           |            | 36      | 18        | 18.25   | 18.32   | 18.31   | 20.00   |
|           |            | 36      | 39        | 18.29   | 18.22   | 18.30   | 20.00   |
| 20MHz     | QPSK       | 75      | 0         | 18.21   | 18.26   | 18.18   | 20.00   |
|           |            | 1       | 0         | 18.34   | 18.38   | 18.19   | 20.00   |
|           |            | 1       | 38        | 18.25   | 18.36   | 18.28   | 20.00   |
|           |            | 1       | 74        | 18.29   | 18.22   | 18.24   | 20.00   |
|           |            | 36      | 0         | 18.22   | 18.37   | 18.13   | 20.00   |
|           |            | 36      | 18        | 18.27   | 18.25   | 18.24   | 20.00   |
|           | 16QAM      | 36      | 39        | 18.28   | 18.19   | 18.37   | 20.00   |
|           |            | 75      | 0         | 18.34   | 18.21   | 18.26   | 20.00   |
|           |            | 1       | 0         | 18.60   | 18.76   | 18.62   | 20.00   |
|           |            | 1       | 50        | 18.60   | 18.52   | 18.65   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 99 | 18.61 | 18.54 | 18.67 | 20.00 |
|  |        | 50  | 0  | 18.58 | 18.71 | 18.61 | 20.00 |
|  |        | 50  | 25 | 18.52 | 18.57 | 18.70 | 20.00 |
|  |        | 50  | 50 | 18.59 | 18.64 | 18.64 | 20.00 |
|  |        | 100 | 0  | 18.54 | 18.66 | 18.62 | 20.00 |
|  | 16QAM  | 1   | 0  | 18.59 | 18.62 | 18.67 | 20.00 |
|  |        | 1   | 50 | 18.65 | 18.51 | 18.60 | 20.00 |
|  |        | 1   | 99 | 18.64 | 18.59 | 18.65 | 20.00 |
|  |        | 50  | 0  | 18.58 | 18.63 | 18.51 | 20.00 |
|  |        | 50  | 25 | 18.62 | 18.63 | 18.57 | 20.00 |
|  | 64QAM  | 50  | 50 | 18.56 | 18.60 | 18.68 | 20.00 |
|  |        | 100 | 0  | 18.59 | 18.56 | 18.60 | 20.00 |
|  |        | 1   | 0  | 18.30 | 18.30 | 18.27 | 20.00 |
|  |        | 1   | 50 | 18.33 | 18.32 | 18.39 | 20.00 |
|  |        | 1   | 99 | 18.39 | 18.21 | 18.34 | 20.00 |
|  | 256QAM | 50  | 0  | 18.43 | 18.22 | 18.41 | 20.00 |
|  |        | 50  | 25 | 18.35 | 18.34 | 18.37 | 20.00 |
|  |        | 50  | 50 | 18.33 | 18.33 | 18.37 | 20.00 |
|  |        | 100 | 0  | 18.33 | 18.31 | 18.28 | 20.00 |
|  |        | 1   | 0  | 18.35 | 18.28 | 18.20 | 20.00 |
|  |        | 1   | 50 | 18.32 | 18.30 | 18.22 | 20.00 |
|  |        | 1   | 99 | 18.27 | 18.25 | 18.34 | 20.00 |
|  |        | 50  | 0  | 18.31 | 18.30 | 18.22 | 20.00 |
|  |        | 50  | 25 | 18.37 | 18.28 | 18.28 | 20.00 |
|  |        | 50  | 50 | 18.20 | 18.29 | 18.27 | 20.00 |
|  |        | 100 | 0  | 18.29 | 18.25 | 18.27 | 20.00 |

| LTE Band 66 Body worn For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                        |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                                 | QPSK       | 1       | 0         | 21.23                | 21.15   | 21.29   | 22.50   |
|                                        |            | 1       | 2         | 20.90                | 21.03   | 21.31   | 22.50   |
|                                        |            | 1       | 5         | 20.91                | 20.95   | 21.19   | 22.50   |
|                                        |            | 3       | 0         | 21.23                | 21.11   | 21.12   | 22.50   |
|                                        |            | 3       | 1         | 21.08                | 21.02   | 20.96   | 22.50   |
|                                        |            | 3       | 3         | 21.14                | 21.25   | 21.39   | 22.50   |
|                                        | 16QAM      | 6       | 0         | 21.24                | 21.27   | 21.38   | 22.50   |
|                                        |            | 1       | 0         | 21.22                | 21.14   | 21.08   | 22.50   |
|                                        |            | 1       | 2         | 20.74                | 20.76   | 21.17   | 22.50   |
|                                        |            | 1       | 5         | 21.19                | 20.93   | 21.23   | 22.50   |
|                                        |            | 3       | 0         | 21.41                | 21.36   | 21.15   | 22.50   |
|                                        |            | 3       | 1         | 21.31                | 21.33   | 20.99   | 22.50   |
|                                        | 64QAM      | 3       | 3         | 21.33                | 20.86   | 21.27   | 22.50   |
|                                        |            | 6       | 0         | 21.07                | 21.02   | 21.10   | 22.50   |
|                                        |            | 1       | 0         | 21.16                | 20.75   | 20.98   | 22.50   |
|                                        |            | 1       | 2         | 20.79                | 20.88   | 21.00   | 22.50   |
|                                        |            | 1       | 5         | 20.74                | 20.70   | 20.69   | 22.50   |
|                                        |            | 3       | 0         | 20.76                | 20.56   | 20.73   | 22.50   |
|                                        | 256QAM     | 3       | 1         | 20.84                | 21.13   | 20.74   | 22.50   |
|                                        |            | 3       | 3         | 20.69                | 21.05   | 20.92   | 22.50   |
|                                        |            | 6       | 0         | 20.37                | 20.12   | 20.31   | 22.00   |
|                                        |            | 1       | 0         | 18.38                | 18.14   | 18.04   | 20.00   |
|                                        |            | 1       | 2         | 18.30                | 18.56   | 18.27   | 20.00   |
|                                        |            | 1       | 5         | 18.40                | 18.49   | 18.16   | 20.00   |
| 3MHz                                   | QPSK       | 3       | 0         | 18.14                | 18.48   | 18.34   | 20.00   |
|                                        |            | 3       | 1         | 18.37                | 18.27   | 18.36   | 20.00   |
|                                        |            | 3       | 3         | 18.21                | 18.26   | 18.27   | 20.00   |
|                                        |            | 6       | 0         | 18.07                | 18.33   | 18.08   | 20.00   |
|                                        | 16QAM      | 1       | 0         | 21.13                | 21.17   | 21.35   | 22.50   |
|                                        |            | 1       | 7         | 20.98                | 21.09   | 21.21   | 22.50   |
|                                        |            | 1       | 14        | 20.94                | 21.03   | 21.19   | 22.50   |
|                                        |            | 8       | 0         | 21.17                | 21.11   | 21.15   | 22.50   |
|                                        |            | 8       | 4         | 21.11                | 20.98   | 21.03   | 22.50   |
|                                        |            | 8       | 7         | 21.11                | 21.19   | 21.34   | 22.50   |
|                                        |            | 15      | 0         | 21.31                | 21.31   | 21.35   | 22.50   |
|                                        |            | 1       | 0         | 21.17                | 21.17   | 21.08   | 22.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 7         | 20.79   | 20.78   | 21.14   | 22.50   |
|           |            | 1       | 14        | 21.15   | 20.90   | 21.15   | 22.50   |
|           |            | 8       | 0         | 21.31   | 21.39   | 21.19   | 22.50   |
|           |            | 8       | 4         | 21.22   | 21.27   | 21.05   | 22.50   |
|           |            | 8       | 7         | 21.28   | 20.84   | 21.31   | 22.50   |
|           |            | 15      | 0         | 21.02   | 21.12   | 21.03   | 22.50   |
|           | 64QAM      | 1       | 0         | 21.10   | 20.74   | 20.98   | 22.50   |
|           |            | 1       | 7         | 20.79   | 20.89   | 20.97   | 22.50   |
|           |            | 1       | 14        | 20.82   | 20.72   | 20.65   | 22.50   |
|           |            | 8       | 0         | 20.17   | 20.04   | 20.18   | 22.00   |
|           |            | 8       | 4         | 20.38   | 20.59   | 20.32   | 22.00   |
|           |            | 8       | 7         | 20.25   | 20.57   | 20.35   | 22.00   |
|           | 256QAM     | 15      | 0         | 20.33   | 20.20   | 20.33   | 22.00   |
|           |            | 1       | 0         | 18.40   | 18.23   | 18.01   | 20.00   |
|           |            | 1       | 7         | 18.28   | 18.52   | 18.25   | 20.00   |
|           |            | 1       | 14        | 18.30   | 18.43   | 18.16   | 20.00   |
|           |            | 8       | 0         | 18.17   | 18.38   | 18.30   | 20.00   |
|           |            | 8       | 4         | 18.47   | 18.37   | 18.34   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 21.12   | 21.25   | 21.33   | 22.50   |
|           |            | 1       | 13        | 20.91   | 21.06   | 21.13   | 22.50   |
|           |            | 1       | 24        | 20.85   | 21.02   | 21.16   | 22.50   |
|           |            | 12      | 0         | 21.13   | 21.19   | 21.23   | 22.50   |
|           |            | 12      | 6         | 21.07   | 20.90   | 20.99   | 22.50   |
|           |            | 12      | 13        | 21.15   | 21.21   | 21.38   | 22.50   |
|           | 16QAM      | 25      | 0         | 21.30   | 21.26   | 21.27   | 22.50   |
|           |            | 1       | 0         | 21.13   | 21.15   | 21.16   | 22.50   |
|           |            | 1       | 13        | 20.86   | 20.83   | 21.24   | 22.50   |
|           |            | 1       | 24        | 21.20   | 21.00   | 21.19   | 22.50   |
|           |            | 12      | 0         | 21.24   | 21.29   | 21.21   | 22.50   |
|           |            | 12      | 6         | 21.21   | 21.17   | 21.09   | 22.50   |
|           | 64QAM      | 12      | 13        | 21.21   | 20.93   | 21.22   | 22.50   |
|           |            | 25      | 0         | 21.09   | 21.19   | 21.01   | 22.50   |
|           |            | 1       | 0         | 21.01   | 20.83   | 20.93   | 22.50   |
|           |            | 1       | 13        | 20.82   | 20.92   | 20.94   | 22.50   |
|           |            | 1       | 24        | 20.79   | 20.79   | 20.62   | 22.50   |
|           |            | 12      | 0         | 20.12   | 20.05   | 20.20   | 22.00   |
| 10MHz     | QPSK       | 12      | 6         | 20.32   | 20.56   | 20.27   | 22.00   |
|           |            | 12      | 13        | 20.30   | 20.47   | 20.37   | 22.00   |
|           |            | 25      | 0         | 20.26   | 20.14   | 20.34   | 22.00   |
|           | 16QAM      | 1       | 0         | 18.42   | 18.29   | 18.10   | 20.00   |
|           |            | 1       | 13        | 18.35   | 18.59   | 18.27   | 20.00   |
|           |            | 1       | 24        | 18.27   | 18.38   | 18.14   | 20.00   |
|           | 256QAM     | 12      | 0         | 18.27   | 18.28   | 18.30   | 20.00   |
|           |            | 12      | 6         | 18.37   | 18.29   | 18.39   | 20.00   |
|           |            | 12      | 13        | 18.26   | 18.27   | 18.24   | 20.00   |
|           |            | 25      | 0         | 18.16   | 18.41   | 18.22   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 21.10   | 21.31   | 21.38   | 22.50   |
|           |            | 1       | 25        | 20.89   | 21.06   | 21.15   | 22.50   |
|           |            | 1       | 49        | 20.90   | 21.10   | 21.08   | 22.50   |
|           |            | 25      | 0         | 21.14   | 21.27   | 21.17   | 22.50   |
|           |            | 25      | 13        | 21.03   | 20.97   | 21.01   | 22.50   |
|           |            | 25      | 25        | 21.12   | 21.17   | 21.28   | 22.50   |
|           | 16QAM      | 50      | 0         | 21.25   | 21.23   | 21.28   | 22.50   |
|           |            | 1       | 0         | 21.17   | 21.19   | 21.13   | 22.50   |
|           |            | 1       | 25        | 20.91   | 20.93   | 21.21   | 22.50   |
|           |            | 1       | 49        | 21.11   | 21.04   | 21.17   | 22.50   |
|           |            | 25      | 0         | 21.22   | 21.21   | 21.26   | 22.50   |
|           |            | 25      | 13        | 21.29   | 21.22   | 21.10   | 22.50   |
| 10MHz     | 64QAM      | 25      | 25        | 21.20   | 21.03   | 21.28   | 22.50   |
|           |            | 50      | 0         | 21.07   | 21.25   | 20.99   | 22.50   |
|           |            | 1       | 0         | 20.93   | 20.86   | 20.85   | 22.50   |
|           |            | 1       | 25        | 20.92   | 20.85   | 20.94   | 22.50   |
|           |            | 1       | 49        | 20.83   | 20.86   | 20.69   | 22.50   |
|           |            | 25      | 0         | 20.17   | 20.11   | 20.26   | 22.00   |

|           | 256QAM     | 25      | 13        | 20.35   | 20.55   | 20.22   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 20.37   | 20.38   | 20.40   | 22.00   |
|           |            | 50      | 0         | 20.26   | 20.20   | 20.26   | 22.00   |
|           |            | 1       | 0         | 18.44   | 18.24   | 18.17   | 20.00   |
|           |            | 1       | 25        | 18.33   | 18.51   | 18.30   | 20.00   |
|           |            | 1       | 49        | 18.31   | 18.32   | 18.20   | 20.00   |
|           |            | 25      | 0         | 18.29   | 18.28   | 18.21   | 20.00   |
|           |            | 25      | 13        | 18.40   | 18.26   | 18.41   | 20.00   |
|           |            | 25      | 25        | 18.25   | 18.32   | 18.16   | 20.00   |
|           |            | 50      | 0         | 18.15   | 18.41   | 18.24   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 21.17   | 21.39   | 21.31   | 22.50   |
|           |            | 1       | 38        | 20.93   | 21.00   | 21.07   | 22.50   |
|           |            | 1       | 74        | 20.93   | 21.17   | 21.11   | 22.50   |
|           |            | 36      | 0         | 21.24   | 21.19   | 21.09   | 22.50   |
|           |            | 36      | 18        | 21.12   | 20.96   | 20.95   | 22.50   |
|           |            | 36      | 39        | 21.12   | 21.09   | 21.31   | 22.50   |
|           | 16QAM      | 75      | 0         | 21.30   | 21.26   | 21.26   | 22.50   |
|           |            | 1       | 0         | 21.22   | 21.20   | 21.05   | 22.50   |
|           |            | 1       | 38        | 20.98   | 21.01   | 21.15   | 22.50   |
|           |            | 1       | 74        | 21.08   | 21.09   | 21.10   | 22.50   |
|           |            | 36      | 0         | 21.25   | 21.31   | 21.20   | 22.50   |
|           |            | 36      | 18        | 21.31   | 21.32   | 21.13   | 22.50   |
|           | 64QAM      | 36      | 39        | 21.26   | 21.00   | 21.23   | 22.50   |
|           |            | 75      | 0         | 21.04   | 21.22   | 20.97   | 22.50   |
|           |            | 1       | 0         | 20.90   | 20.86   | 20.78   | 22.50   |
|           |            | 1       | 38        | 20.96   | 20.78   | 20.87   | 22.50   |
|           |            | 1       | 74        | 20.76   | 20.82   | 20.68   | 22.50   |
|           |            | 36      | 0         | 20.13   | 20.21   | 20.27   | 22.00   |
|           | 256QAM     | 36      | 18        | 20.41   | 20.45   | 20.23   | 22.00   |
|           |            | 36      | 39        | 20.31   | 20.28   | 20.39   | 22.00   |
|           |            | 75      | 0         | 20.29   | 20.21   | 20.25   | 22.00   |
|           |            | 1       | 0         | 18.36   | 18.33   | 18.20   | 20.00   |
|           |            | 1       | 38        | 18.26   | 18.45   | 18.22   | 20.00   |
|           |            | 1       | 74        | 18.36   | 18.26   | 18.27   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 21.22   | 21.35   | 21.23   | 22.50   |
|           |            | 1       | 50        | 21.01   | 21.10   | 21.07   | 22.50   |
|           |            | 1       | 99        | 21.02   | 21.12   | 21.11   | 22.50   |
|           |            | 50      | 0         | 21.17   | 21.29   | 21.16   | 22.50   |
|           |            | 50      | 25        | 21.15   | 21.05   | 21.04   | 22.50   |
|           |            | 50      | 50        | 21.17   | 21.10   | 21.21   | 22.50   |
|           | 16QAM      | 100     | 0         | 21.25   | 21.24   | 21.17   | 22.50   |
|           |            | 1       | 0         | 21.13   | 21.19   | 21.10   | 22.50   |
|           |            | 1       | 50        | 21.04   | 21.06   | 21.10   | 22.50   |
|           |            | 1       | 99        | 21.11   | 21.10   | 21.13   | 22.50   |
|           |            | 50      | 0         | 21.19   | 21.22   | 21.14   | 22.50   |
|           |            | 50      | 25        | 21.21   | 21.23   | 21.21   | 22.50   |
|           | 64QAM      | 50      | 50        | 21.18   | 21.06   | 21.18   | 22.50   |
|           |            | 100     | 0         | 21.11   | 21.12   | 21.05   | 22.50   |
|           |            | 1       | 0         | 20.81   | 20.88   | 20.86   | 22.50   |
|           |            | 1       | 50        | 20.90   | 20.88   | 20.85   | 22.50   |
|           |            | 1       | 99        | 20.75   | 20.77   | 20.78   | 22.50   |
|           |            | 50      | 0         | 20.20   | 20.19   | 20.21   | 22.00   |
|           | 256QAM     | 50      | 25        | 20.41   | 20.38   | 20.32   | 22.00   |
|           |            | 50      | 50        | 20.37   | 20.28   | 20.34   | 22.00   |
|           |            | 100     | 0         | 20.39   | 20.30   | 20.35   | 22.00   |
|           |            | 1       | 0         | 18.36   | 18.32   | 18.28   | 20.00   |
|           |            | 1       | 50        | 18.26   | 18.40   | 18.30   | 20.00   |
|           |            | 1       | 99        | 18.29   | 18.25   | 18.21   | 20.00   |
|           | 256QAM     | 50      | 0         | 18.40   | 18.29   | 18.27   | 20.00   |
|           |            | 50      | 25        | 18.37   | 18.24   | 18.26   | 20.00   |
|           |            | 50      | 50        | 18.38   | 18.25   | 18.27   | 20.00   |
|           |            | 100     | 0         | 18.26   | 18.29   | 18.32   | 20.00   |

| LTE Band 38 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                               |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                                          | QPSK       | 1       | 0         | 22.51                | 22.54   | 22.45   | 24.00   |
|                                               |            | 1       | 13        | 22.54                | 22.55   | 22.59   | 24.00   |
|                                               |            | 1       | 24        | 22.51                | 22.44   | 22.37   | 24.00   |
|                                               |            | 12      | 0         | 21.42                | 21.52   | 21.61   | 23.00   |
|                                               |            | 12      | 6         | 21.59                | 21.54   | 21.49   | 23.00   |
|                                               |            | 12      | 13        | 21.61                | 21.69   | 21.62   | 23.00   |
|                                               | 16QAM      | 25      | 0         | 21.36                | 21.39   | 21.39   | 23.00   |
|                                               |            | 1       | 0         | 21.44                | 21.47   | 21.45   | 23.00   |
|                                               |            | 1       | 13        | 21.43                | 21.49   | 21.45   | 23.00   |
|                                               |            | 1       | 24        | 21.34                | 21.33   | 21.43   | 23.00   |
|                                               |            | 12      | 0         | 20.46                | 20.48   | 20.50   | 22.00   |
|                                               |            | 12      | 6         | 20.72                | 20.63   | 20.63   | 22.00   |
|                                               | 64QAM      | 12      | 13        | 20.61                | 20.54   | 20.56   | 22.00   |
|                                               |            | 25      | 0         | 20.40                | 20.45   | 20.38   | 22.00   |
|                                               |            | 1       | 0         | 20.75                | 20.69   | 20.62   | 22.00   |
|                                               |            | 1       | 13        | 20.36                | 20.43   | 20.44   | 22.00   |
|                                               |            | 1       | 24        | 20.78                | 20.77   | 20.72   | 22.00   |
|                                               |            | 12      | 0         | 19.49                | 19.58   | 19.61   | 21.00   |
| 10MHz                                         | QPSK       | 12      | 6         | 19.55                | 19.64   | 19.59   | 21.00   |
|                                               |            | 12      | 13        | 19.49                | 19.39   | 19.45   | 21.00   |
|                                               |            | 25      | 0         | 19.57                | 19.50   | 19.59   | 21.00   |
|                                               | 16QAM      | 1       | 0         | 17.71                | 17.70   | 17.70   | 19.00   |
|                                               |            | 1       | 13        | 17.49                | 17.56   | 17.60   | 19.00   |
|                                               |            | 1       | 24        | 17.60                | 17.67   | 17.61   | 19.00   |
|                                               | 256QAM     | 12      | 0         | 17.55                | 17.59   | 17.56   | 19.00   |
|                                               |            | 12      | 6         | 17.46                | 17.49   | 17.47   | 19.00   |
|                                               |            | 12      | 13        | 17.54                | 17.58   | 17.68   | 19.00   |
|                                               |            | 25      | 0         | 17.69                | 17.64   | 17.55   | 19.00   |
|                                               | QPSK       | 1       | 0         | 22.63                | 22.64   | 22.58   | 24.00   |
|                                               |            | 1       | 25        | 22.71                | 22.61   | 22.53   | 24.00   |
|                                               |            | 1       | 49        | 22.48                | 22.50   | 22.54   | 24.00   |
|                                               |            | 25      | 0         | 21.39                | 21.48   | 21.48   | 23.00   |
|                                               |            | 25      | 13        | 21.63                | 21.53   | 21.55   | 23.00   |
|                                               |            | 25      | 25        | 21.54                | 21.61   | 21.59   | 23.00   |
|                                               | 16QAM      | 50      | 0         | 21.50                | 21.41   | 21.40   | 23.00   |
|                                               |            | 1       | 0         | 21.42                | 21.49   | 21.52   | 23.00   |
|                                               |            | 1       | 25        | 21.41                | 21.51   | 21.59   | 23.00   |
|                                               |            | 1       | 49        | 21.33                | 21.36   | 21.33   | 23.00   |
|                                               |            | 25      | 0         | 20.60                | 20.56   | 20.46   | 22.00   |
|                                               |            | 25      | 13        | 20.66                | 20.67   | 20.75   | 22.00   |
|                                               | 64QAM      | 25      | 25        | 20.58                | 20.62   | 20.69   | 22.00   |
|                                               |            | 50      | 0         | 20.44                | 20.45   | 20.35   | 22.00   |
|                                               |            | 1       | 0         | 20.73                | 20.64   | 20.60   | 22.00   |
|                                               |            | 1       | 25        | 20.54                | 20.50   | 20.45   | 22.00   |
|                                               |            | 1       | 49        | 20.68                | 20.70   | 20.71   | 22.00   |
|                                               |            | 25      | 0         | 19.62                | 19.53   | 19.52   | 21.00   |
| 15MHz                                         | QPSK       | 25      | 13        | 19.56                | 19.58   | 19.55   | 21.00   |
|                                               |            | 25      | 25        | 19.47                | 19.46   | 19.51   | 21.00   |
|                                               |            | 50      | 0         | 19.47                | 19.52   | 19.53   | 21.00   |
|                                               | 16QAM      | 1       | 0         | 17.69                | 17.66   | 17.57   | 19.00   |
|                                               |            | 1       | 25        | 17.55                | 17.57   | 17.54   | 19.00   |
|                                               |            | 1       | 49        | 17.57                | 17.60   | 17.53   | 19.00   |
|                                               | 256QAM     | 25      | 0         | 17.55                | 17.49   | 17.43   | 19.00   |
|                                               |            | 25      | 13        | 17.62                | 17.53   | 17.61   | 19.00   |
|                                               |            | 25      | 25        | 17.56                | 17.57   | 17.58   | 19.00   |
|                                               |            | 50      | 0         | 17.73                | 17.63   | 17.60   | 19.00   |
|                                               | QPSK       | 1       | 0         | 22.67                | 22.60   | 22.65   | 24.00   |
|                                               |            | 1       | 38        | 22.59                | 22.64   | 22.61   | 24.00   |
|                                               |            | 1       | 74        | 22.54                | 22.53   | 22.52   | 24.00   |
|                                               |            | 36      | 0         | 21.40                | 21.45   | 21.49   | 23.00   |
|                                               |            | 36      | 18        | 21.52                | 21.55   | 21.50   | 23.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 39        | 21.69   | 21.60   | 21.57   | 23.00   |
|           |            | 75      | 0         | 21.39   | 21.49   | 21.41   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.43   | 21.47   | 21.55   | 23.00   |
|           |            | 1       | 38        | 21.48   | 21.50   | 21.54   | 23.00   |
|           |            | 1       | 74        | 21.42   | 21.45   | 21.46   | 23.00   |
|           |            | 36      | 0         | 20.71   | 20.66   | 20.76   | 22.00   |
|           |            | 36      | 18        | 20.60   | 20.64   | 20.64   | 22.00   |
|           |            | 36      | 39        | 20.70   | 20.67   | 20.71   | 22.00   |
|           |            | 75      | 0         | 20.48   | 20.55   | 20.48   | 22.00   |
|           |            | 1       | 0         | 20.53   | 20.62   | 20.59   | 22.00   |
|           | 64QAM      | 1       | 38        | 20.57   | 20.52   | 20.43   | 22.00   |
|           |            | 1       | 74        | 20.70   | 20.62   | 20.66   | 22.00   |
|           |            | 36      | 0         | 19.52   | 19.50   | 19.57   | 21.00   |
|           |            | 36      | 18        | 19.43   | 19.52   | 19.54   | 21.00   |
|           |            | 36      | 39        | 19.48   | 19.54   | 19.60   | 21.00   |
|           |            | 75      | 0         | 19.56   | 19.46   | 19.51   | 21.00   |
|           |            | 1       | 0         | 17.46   | 17.56   | 17.55   | 19.00   |
|           |            | 1       | 38        | 17.71   | 17.67   | 17.58   | 19.00   |
|           | 256QAM     | 1       | 74        | 17.66   | 17.56   | 17.50   | 19.00   |
|           |            | 36      | 0         | 17.46   | 17.52   | 17.57   | 19.00   |
|           |            | 36      | 18        | 17.63   | 17.61   | 17.63   | 19.00   |
|           |            | 36      | 39        | 17.60   | 17.64   | 17.61   | 19.00   |
|           |            | 75      | 0         | 17.46   | 17.56   | 17.46   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 38000   | /       |         |
| 20MHz     | QPSK       | 1       | 0         | /       | 22.66   | /       | 24.00   |
|           |            | 1       | 50        | /       | 22.57   | /       | 24.00   |
|           |            | 1       | 99        | /       | 22.54   | /       | 24.00   |
|           |            | 50      | 0         | /       | 21.51   | /       | 23.00   |
|           |            | 50      | 25        | /       | 21.58   | /       | 23.00   |
|           |            | 50      | 50        | /       | 21.58   | /       | 23.00   |
|           |            | 100     | 0         | /       | 21.54   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.56   | /       | 23.00   |
|           | 16QAM      | 1       | 50        | /       | 21.59   | /       | 23.00   |
|           |            | 1       | 99        | /       | 21.54   | /       | 23.00   |
|           |            | 50      | 0         | /       | 20.58   | /       | 22.00   |
|           |            | 50      | 25        | /       | 20.56   | /       | 22.00   |
|           |            | 50      | 50        | /       | 20.59   | /       | 22.00   |
|           |            | 100     | 0         | /       | 20.54   | /       | 22.00   |
|           | 64QAM      | 1       | 0         | /       | 20.54   | /       | 22.00   |
|           |            | 1       | 50        | /       | 20.58   | /       | 22.00   |
|           |            | 1       | 99        | /       | 20.56   | /       | 22.00   |
|           |            | 50      | 0         | /       | 19.54   | /       | 21.00   |
|           |            | 50      | 25        | /       | 19.55   | /       | 21.00   |
|           |            | 50      | 50        | /       | 19.53   | /       | 21.00   |
|           |            | 100     | 0         | /       | 19.54   | /       | 21.00   |
|           | 256QAM     | 1       | 0         | /       | 17.55   | /       | 19.00   |
|           |            | 1       | 50        | /       | 17.59   | /       | 19.00   |
|           |            | 1       | 99        | /       | 17.56   | /       | 19.00   |
|           |            | 50      | 0         | /       | 17.58   | /       | 19.00   |
|           |            | 50      | 25        | /       | 17.57   | /       | 19.00   |
|           |            | 50      | 50        | /       | 17.57   | /       | 19.00   |
|           |            | 100     | 0         | /       | 17.51   | /       | 19.00   |

| LTE Band 41 PC3&PC2 Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |         |         |
|--------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|---------|
| Bandwidth                                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                                            |            |         |           | 39675                | 40148   | 40620   | 41093   | 41565   |         |
| 5MHz                                       | QPSK       | 1       | 0         | 22.64                | 22.64   | 22.84   | 22.59   | 22.71   | 24.00   |
|                                            |            | 1       | 13        | 22.47                | 22.59   | 22.69   | 22.75   | 22.49   | 24.00   |
|                                            |            | 1       | 24        | 22.45                | 22.43   | 22.82   | 22.43   | 22.87   | 24.00   |
|                                            |            | 12      | 0         | 21.5                 | 21.54   | 21.67   | 21.75   | 21.74   | 23.00   |
|                                            |            | 12      | 6         | 21.33                | 21.4    | 21.63   | 21.56   | 21.77   | 23.00   |
|                                            |            | 12      | 13        | 21.59                | 21.65   | 21.77   | 21.47   | 21.73   | 23.00   |
|                                            |            | 25      | 0         | 21.51                | 21.57   | 21.67   | 21.57   | 21.66   | 23.00   |
|                                            |            | 1       | 0         | 21.65                | 21.63   | 21.62   | 21.73   | 21.78   | 23.00   |
|                                            | 16QAM      | 1       | 13        | 21.43                | 21.44   | 21.64   | 21.58   | 21.62   | 23.00   |
|                                            |            | 1       | 24        | 21.56                | 21.47   | 21.59   | 21.59   | 21.7    | 23.00   |
|                                            |            | 12      | 0         | 20.58                | 20.33   | 20.51   | 20.65   | 20.62   | 22.00   |

|           | 64QAM      | 12      | 6         | 20.63   | 20.41   | 20.74   | 20.67   | 20.65   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 12      | 13        | 20.4    | 20.46   | 20.69   | 20.61   | 20.7    | 22.00   |
|           |            | 25      | 0         | 20.47   | 20.6    | 20.59   | 20.77   | 20.55   | 22.00   |
|           |            | 1       | 0         | 20.63   | 20.75   | 20.72   | 20.81   | 20.65   | 22.00   |
|           |            | 1       | 13        | 20.42   | 20.73   | 20.49   | 20.43   | 20.63   | 22.00   |
|           |            | 1       | 24        | 20.64   | 20.55   | 20.69   | 20.48   | 20.73   | 22.00   |
|           |            | 12      | 0         | 19.54   | 19.49   | 19.79   | 19.49   | 19.87   | 21.00   |
|           |            | 12      | 6         | 19.48   | 19.40   | 19.65   | 19.58   | 19.48   | 21.00   |
|           | 256QAM     | 12      | 13        | 19.55   | 19.49   | 19.77   | 19.50   | 19.74   | 21.00   |
|           |            | 25      | 0         | 19.41   | 19.45   | 19.74   | 19.58   | 19.68   | 21.00   |
|           |            | 1       | 0         | 17.62   | 17.42   | 17.64   | 17.61   | 17.60   | 19.00   |
|           |            | 1       | 13        | 17.56   | 17.60   | 17.65   | 17.68   | 17.58   | 19.00   |
|           |            | 1       | 24        | 17.72   | 17.68   | 17.59   | 17.61   | 17.62   | 19.00   |
|           |            | 12      | 0         | 17.69   | 17.48   | 17.61   | 17.54   | 17.54   | 19.00   |
|           |            | 12      | 6         | 17.68   | 17.49   | 17.73   | 17.72   | 17.76   | 19.00   |
|           |            | 12      | 13        | 17.48   | 17.35   | 17.75   | 17.75   | 17.82   | 19.00   |
|           |            | 25      | 0         | 17.34   | 17.53   | 17.72   | 17.58   | 17.69   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39700   | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.72   | 22.55   | 22.77   | 22.69   | 22.74   | 24.00   |
|           |            | 1       | 25        | 22.48   | 22.58   | 22.65   | 22.69   | 22.48   | 24.00   |
|           |            | 1       | 49        | 22.54   | 22.46   | 22.76   | 22.53   | 22.77   | 24.00   |
|           |            | 25      | 0         | 21.6    | 21.49   | 21.64   | 21.68   | 21.67   | 23.00   |
|           |            | 25      | 13        | 21.4    | 21.47   | 21.61   | 21.47   | 21.76   | 23.00   |
|           |            | 25      | 25        | 21.5    | 21.58   | 21.74   | 21.56   | 21.65   | 23.00   |
|           |            | 50      | 0         | 21.53   | 21.51   | 21.67   | 21.58   | 21.69   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.59   | 21.57   | 21.59   | 21.78   | 21.71   | 23.00   |
|           |            | 1       | 25        | 21.53   | 21.51   | 21.71   | 21.53   | 21.62   | 23.00   |
|           |            | 1       | 49        | 21.63   | 21.46   | 21.69   | 21.56   | 21.63   | 23.00   |
|           |            | 25      | 0         | 20.61   | 20.41   | 20.53   | 20.6    | 20.56   | 22.00   |
|           |            | 25      | 13        | 20.63   | 20.43   | 20.64   | 20.6    | 20.63   | 22.00   |
|           |            | 25      | 25        | 20.48   | 20.46   | 20.62   | 20.62   | 20.74   | 22.00   |
|           |            | 50      | 0         | 20.5    | 20.66   | 20.61   | 20.78   | 20.54   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.59   | 20.65   | 20.70   | 20.73   | 20.60   | 22.00   |
|           |            | 1       | 25        | 20.48   | 20.71   | 20.56   | 20.52   | 20.63   | 22.00   |
|           |            | 1       | 49        | 20.58   | 20.60   | 20.63   | 20.51   | 20.69   | 22.00   |
|           |            | 25      | 0         | 19.52   | 19.53   | 19.73   | 19.56   | 19.79   | 21.00   |
|           |            | 25      | 13        | 19.55   | 19.46   | 19.72   | 19.67   | 19.45   | 21.00   |
|           |            | 25      | 25        | 19.45   | 19.48   | 19.67   | 19.58   | 19.72   | 21.00   |
|           |            | 50      | 0         | 19.47   | 19.48   | 19.73   | 19.51   | 19.66   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.53   | 17.51   | 17.65   | 17.56   | 17.51   | 19.00   |
|           |            | 1       | 25        | 17.52   | 17.52   | 17.60   | 17.68   | 17.60   | 19.00   |
|           |            | 1       | 49        | 17.66   | 17.64   | 17.56   | 17.53   | 17.68   | 19.00   |
|           |            | 25      | 0         | 17.71   | 17.58   | 17.60   | 17.62   | 17.64   | 19.00   |
|           |            | 25      | 13        | 17.58   | 17.49   | 17.78   | 17.70   | 17.73   | 19.00   |
|           |            | 25      | 25        | 17.42   | 17.42   | 17.76   | 17.77   | 17.77   | 19.00   |
|           |            | 50      | 0         | 17.44   | 17.61   | 17.76   | 17.64   | 17.68   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.62   | 22.53   | 22.76   | 22.73   | 22.74   | 24.00   |
|           |            | 1       | 38        | 22.51   | 22.58   | 22.69   | 22.6    | 22.55   | 24.00   |
|           |            | 1       | 74        | 22.45   | 22.48   | 22.7    | 22.56   | 22.69   | 24.00   |
|           |            | 36      | 0         | 21.53   | 21.46   | 21.65   | 21.78   | 21.68   | 23.00   |
|           |            | 36      | 18        | 21.49   | 21.53   | 21.68   | 21.54   | 21.75   | 23.00   |
|           |            | 36      | 39        | 21.5    | 21.63   | 21.73   | 21.64   | 21.72   | 23.00   |
|           |            | 75      | 0         | 21.55   | 21.55   | 21.6    | 21.56   | 21.74   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.63   | 21.54   | 21.68   | 21.69   | 21.63   | 23.00   |
|           |            | 1       | 38        | 21.51   | 21.52   | 21.61   | 21.52   | 21.7    | 23.00   |
|           |            | 1       | 74        | 21.56   | 21.48   | 21.78   | 21.66   | 21.62   | 23.00   |
|           |            | 36      | 0         | 20.53   | 20.46   | 20.58   | 20.65   | 20.59   | 22.00   |
|           |            | 36      | 18        | 20.53   | 20.45   | 20.57   | 20.64   | 20.63   | 22.00   |
|           |            | 36      | 39        | 20.57   | 20.54   | 20.53   | 20.55   | 20.77   | 22.00   |
|           |            | 75      | 0         | 20.49   | 20.63   | 20.55   | 20.74   | 20.63   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.63   | 20.57   | 20.76   | 20.69   | 20.54   | 22.00   |
|           |            | 1       | 38        | 20.39   | 20.68   | 20.56   | 20.56   | 20.55   | 22.00   |
|           |            | 1       | 74        | 20.54   | 20.53   | 20.64   | 20.52   | 20.63   | 22.00   |
|           |            | 36      | 0         | 19.50   | 19.52   | 19.70   | 19.64   | 19.73   | 21.00   |
|           |            | 36      | 18        | 19.59   | 19.49   | 19.70   | 19.76   | 19.54   | 21.00   |
|           |            | 36      | 39        | 19.46   | 19.51   | 19.63   | 19.61   | 19.68   | 21.00   |
|           |            | 75      | 0         | 19.56   | 19.57   | 19.70   | 19.58   | 19.69   | 21.00   |

|           |            | 1       | 0         | 17.53            | 17.44            | 17.70            | 17.58            | 17.59            | 19.00   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|------------------|------------------|---------|
|           |            | 1       | 38        | 17.58            | 17.48            | 17.60            | 17.77            | 17.58            | 19.00   |
|           |            | 1       | 74        | 17.61            | 17.61            | 17.64            | 17.63            | 17.59            | 19.00   |
|           | 256QAM     | 36      | 0         | 17.70            | 17.55            | 17.65            | 17.63            | 17.54            | 19.00   |
|           |            | 36      | 18        | 17.65            | 17.57            | 17.72            | 17.65            | 17.66            | 19.00   |
|           |            | 36      | 39        | 17.50            | 17.45            | 17.67            | 17.72            | 17.73            | 19.00   |
|           |            | 75      | 0         | 17.48            | 17.61            | 17.71            | 17.57            | 17.60            | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>39750 | Channel<br>40185 | Channel<br>40620 | Channel<br>41055 | Channel<br>41490 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 22.6             | 22.54            | 22.76            | 22.68            | 22.67            | 24.00   |
|           |            | 1       | 50        | 22.5             | 22.53            | 22.61            | 22.62            | 22.64            | 24.00   |
|           |            | 1       | 99        | 22.51            | 22.58            | 22.68            | 22.65            | 22.67            | 24.00   |
|           |            | 50      | 0         | 21.55            | 21.54            | 21.65            | 21.68            | 21.67            | 23.00   |
|           |            | 50      | 25        | 21.53            | 21.54            | 21.63            | 21.61            | 21.69            | 23.00   |
|           |            | 50      | 50        | 21.55            | 21.56            | 21.63            | 21.68            | 21.64            | 23.00   |
|           | 16QAM      | 100     | 0         | 21.54            | 21.56            | 21.66            | 21.62            | 21.67            | 23.00   |
|           |            | 1       | 0         | 21.55            | 21.55            | 21.69            | 21.66            | 21.68            | 23.00   |
|           |            | 1       | 50        | 21.48            | 21.58            | 21.63            | 21.61            | 21.65            | 23.00   |
|           |            | 1       | 99        | 21.57            | 21.51            | 21.68            | 21.67            | 21.62            | 23.00   |
|           |            | 50      | 0         | 20.5             | 20.51            | 20.63            | 20.61            | 20.65            | 22.00   |
|           |            | 50      | 25        | 20.53            | 20.54            | 20.64            | 20.66            | 20.68            | 22.00   |
|           | 64QAM      | 50      | 50        | 20.51            | 20.55            | 20.62            | 20.62            | 20.68            | 22.00   |
|           |            | 100     | 0         | 20.54            | 20.55            | 20.63            | 20.66            | 20.64            | 22.00   |
|           |            | 1       | 0         | 20.54            | 20.52            | 20.67            | 20.67            | 20.64            | 22.00   |
|           |            | 1       | 50        | 20.48            | 20.58            | 20.66            | 20.62            | 20.65            | 22.00   |
|           |            | 1       | 99        | 20.54            | 20.60            | 20.63            | 20.62            | 20.68            | 22.00   |
|           |            | 50      | 0         | 19.57            | 19.52            | 19.66            | 19.66            | 19.65            | 21.00   |
|           | 256QAM     | 50      | 25        | 19.60            | 19.52            | 19.64            | 19.69            | 19.63            | 21.00   |
|           |            | 50      | 50        | 19.53            | 19.54            | 19.67            | 19.62            | 19.62            | 21.00   |
|           |            | 100     | 0         | 19.49            | 19.54            | 19.65            | 19.62            | 19.68            | 21.00   |
|           |            | 1       | 0         | 17.51            | 17.52            | 17.65            | 17.66            | 17.66            | 19.00   |
|           |            | 1       | 50        | 17.56            | 17.54            | 17.64            | 17.67            | 17.61            | 19.00   |
|           |            | 1       | 99        | 17.57            | 17.54            | 17.61            | 17.65            | 17.68            | 19.00   |
|           |            | 50      | 0         | 17.60            | 17.55            | 17.64            | 17.68            | 17.62            | 19.00   |
|           |            | 50      | 25        | 17.59            | 17.58            | 17.63            | 17.69            | 17.67            | 19.00   |
|           |            | 50      | 50        | 17.53            | 17.54            | 17.61            | 17.65            | 17.63            | 19.00   |
|           |            | 100     | 0         | 17.50            | 17.57            | 17.65            | 17.63            | 17.65            | 19.00   |

| LTE Band 41 PC2 Full Power |            |         |           | Conducted Power(dBm) |                  |                  |                  |                  |         |
|----------------------------|------------|---------|-----------|----------------------|------------------|------------------|------------------|------------------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel<br>39675     | Channel<br>40148 | Channel<br>40620 | Channel<br>41093 | Channel<br>41565 | Tune up |
| 5MHz                       | QPSK       | 1       | 0         | 25.65                | 25.67            | 25.82            | 25.55            | 25.71            | 27.00   |
|                            |            | 1       | 13        | 25.49                | 25.62            | 25.67            | 25.73            | 25.46            | 27.00   |
|                            |            | 1       | 24        | 25.43                | 25.45            | 25.82            | 25.43            | 25.86            | 27.00   |
|                            |            | 12      | 0         | 24.51                | 24.58            | 24.68            | 24.74            | 24.72            | 26.00   |
|                            |            | 12      | 6         | 24.33                | 24.37            | 24.62            | 24.56            | 24.74            | 26.00   |
|                            |            | 12      | 13        | 24.6                 | 24.65            | 24.73            | 24.46            | 24.75            | 26.00   |
|                            | 16QAM      | 25      | 0         | 24.54                | 24.6             | 24.69            | 24.56            | 24.69            | 26.00   |
|                            |            | 1       | 0         | 24.65                | 24.66            | 24.6             | 24.71            | 24.77            | 26.00   |
|                            |            | 1       | 13        | 24.39                | 24.42            | 24.6             | 24.56            | 24.57            | 26.00   |
|                            |            | 1       | 24        | 24.54                | 24.51            | 24.56            | 24.62            | 24.73            | 26.00   |
|                            |            | 12      | 0         | 23.6                 | 23.32            | 23.48            | 23.66            | 23.65            | 25.00   |
|                            |            | 12      | 6         | 23.6                 | 23.41            | 23.77            | 23.65            | 23.67            | 25.00   |
|                            | 64QAM      | 12      | 13        | 23.39                | 23.41            | 23.67            | 23.58            | 23.68            | 25.00   |
|                            |            | 25      | 0         | 23.42                | 23.62            | 23.55            | 23.78            | 23.51            | 25.00   |
|                            |            | 1       | 0         | 23.58                | 23.71            | 23.71            | 23.78            | 23.61            | 25.00   |
|                            |            | 1       | 13        | 23.44                | 23.76            | 23.51            | 23.46            | 23.62            | 25.00   |
|                            |            | 1       | 24        | 23.66                | 23.53            | 23.71            | 23.43            | 23.72            | 25.00   |
|                            |            | 12      | 0         | 22.55                | 22.50            | 22.79            | 22.48            | 22.90            | 24.00   |
|                            | 256QAM     | 12      | 6         | 22.48                | 22.43            | 22.63            | 22.60            | 22.44            | 24.00   |
|                            |            | 12      | 13        | 22.58                | 22.50            | 22.76            | 22.50            | 22.72            | 24.00   |
|                            |            | 25      | 0         | 22.43                | 22.41            | 22.71            | 22.55            | 22.65            | 24.00   |
|                            |            | 1       | 0         | 20.63                | 20.43            | 20.64            | 20.60            | 20.60            | 22.00   |
|                            |            | 1       | 13        | 20.55                | 20.58            | 20.66            | 20.69            | 20.56            | 22.00   |

|           |            | 1       | 24        | 20.74   | 20.69   | 20.62   | 20.61   | 20.65   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 12      | 0         | 20.72   | 20.49   | 20.62   | 20.54   | 20.49   | 22.00   |
|           |            | 12      | 6         | 20.66   | 20.49   | 20.74   | 20.70   | 20.75   | 22.00   |
|           |            | 12      | 13        | 20.44   | 20.31   | 20.78   | 20.76   | 20.78   | 22.00   |
|           |            | 25      | 0         | 20.37   | 20.52   | 20.72   | 20.60   | 20.68   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39700   | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz     | QPSK       | 1       | 0         | 25.66   | 25.61   | 25.87   | 25.57   | 25.71   | 27.00   |
|           |            | 1       | 25        | 25.44   | 25.6    | 25.72   | 25.72   | 25.46   | 27.00   |
|           |            | 1       | 49        | 25.48   | 25.43   | 25.84   | 25.4    | 25.85   | 27.00   |
|           |            | 25      | 0         | 24.5    | 24.5    | 24.68   | 24.76   | 24.77   | 26.00   |
|           |            | 25      | 13        | 24.37   | 24.41   | 24.59   | 24.56   | 24.73   | 26.00   |
|           |            | 25      | 25        | 24.57   | 24.64   | 24.76   | 24.46   | 24.76   | 26.00   |
|           | 16QAM      | 50      | 0         | 24.53   | 24.53   | 24.67   | 24.57   | 24.61   | 26.00   |
|           |            | 1       | 0         | 24.65   | 24.59   | 24.61   | 24.7    | 24.76   | 26.00   |
|           |            | 1       | 25        | 24.41   | 24.4    | 24.64   | 24.62   | 24.64   | 26.00   |
|           |            | 1       | 49        | 24.53   | 24.47   | 24.55   | 24.62   | 24.67   | 26.00   |
|           |            | 25      | 0         | 23.55   | 23.35   | 23.48   | 23.65   | 23.61   | 25.00   |
|           |            | 25      | 13        | 23.61   | 23.4    | 23.74   | 23.62   | 23.68   | 25.00   |
|           | 64QAM      | 25      | 25        | 23.43   | 23.49   | 23.71   | 23.57   | 23.7    | 25.00   |
|           |            | 50      | 0         | 23.43   | 23.63   | 23.62   | 23.75   | 23.53   | 25.00   |
|           |            | 1       | 0         | 23.66   | 23.75   | 23.69   | 23.80   | 23.62   | 25.00   |
|           |            | 1       | 25        | 23.40   | 23.71   | 23.48   | 23.39   | 23.65   | 25.00   |
|           |            | 1       | 49        | 23.61   | 23.51   | 23.65   | 23.46   | 23.75   | 25.00   |
|           |            | 25      | 0         | 22.53   | 22.47   | 22.83   | 22.49   | 22.84   | 24.00   |
|           | 256QAM     | 25      | 13        | 22.44   | 22.42   | 22.61   | 22.58   | 22.47   | 24.00   |
|           |            | 25      | 25        | 22.58   | 22.48   | 22.81   | 22.52   | 22.70   | 24.00   |
|           |            | 50      | 0         | 22.42   | 22.41   | 22.78   | 22.62   | 22.67   | 24.00   |
|           |            | 1       | 0         | 20.65   | 20.45   | 20.62   | 20.60   | 20.56   | 22.00   |
|           |            | 1       | 25        | 20.53   | 20.60   | 20.61   | 20.70   | 20.53   | 22.00   |
|           |            | 1       | 49        | 20.75   | 20.66   | 20.60   | 20.64   | 20.66   | 22.00   |
| 15MHz     | QPSK       | 25      | 0         | 20.64   | 20.44   | 20.61   | 20.56   | 20.52   | 22.00   |
|           |            | 25      | 13        | 20.65   | 20.49   | 20.68   | 20.71   | 20.74   | 22.00   |
|           |            | 25      | 25        | 20.51   | 20.31   | 20.75   | 20.75   | 20.81   | 22.00   |
|           |            | 50      | 0         | 20.36   | 20.50   | 20.69   | 20.58   | 20.70   | 22.00   |
|           | 16QAM      | 1       | 0         | 25.59   | 25.67   | 25.84   | 25.59   | 25.7    | 27.00   |
|           |            | 1       | 38        | 25.49   | 25.58   | 25.67   | 25.7    | 25.45   | 27.00   |
|           |            | 1       | 74        | 25.48   | 25.39   | 25.81   | 25.43   | 25.82   | 27.00   |
|           |            | 36      | 0         | 24.53   | 24.55   | 24.65   | 24.71   | 24.77   | 26.00   |
|           |            | 36      | 18        | 24.34   | 24.36   | 24.64   | 24.53   | 24.78   | 26.00   |
|           |            | 36      | 39        | 24.62   | 24.64   | 24.75   | 24.43   | 24.75   | 26.00   |
|           | 64QAM      | 75      | 0         | 24.52   | 24.6    | 24.65   | 24.54   | 24.7    | 26.00   |
|           |            | 1       | 0         | 24.68   | 24.58   | 24.6    | 24.71   | 24.77   | 26.00   |
|           |            | 1       | 38        | 24.45   | 24.42   | 24.66   | 24.61   | 24.64   | 26.00   |
|           |            | 1       | 74        | 24.59   | 24.47   | 24.61   | 24.55   | 24.72   | 26.00   |
|           |            | 36      | 0         | 23.61   | 23.34   | 23.52   | 23.67   | 23.58   | 25.00   |
|           |            | 36      | 18        | 23.65   | 23.4    | 23.75   | 23.64   | 23.64   | 25.00   |
|           | 256QAM     | 36      | 39        | 23.37   | 23.44   | 23.72   | 23.58   | 23.65   | 25.00   |
|           |            | 75      | 0         | 23.46   | 23.57   | 23.56   | 23.73   | 23.54   | 25.00   |
|           |            | 1       | 0         | 23.63   | 23.73   | 23.74   | 23.83   | 23.66   | 25.00   |
|           |            | 1       | 38        | 23.45   | 23.74   | 23.48   | 23.39   | 23.63   | 25.00   |
|           |            | 1       | 74        | 23.62   | 23.55   | 23.64   | 23.49   | 23.77   | 25.00   |
|           |            | 36      | 0         | 22.53   | 22.52   | 22.79   | 22.48   | 22.88   | 24.00   |
|           | 16QAM      | 36      | 18        | 22.49   | 22.35   | 22.65   | 22.57   | 22.51   | 24.00   |
|           |            | 36      | 39        | 22.57   | 22.50   | 22.72   | 22.48   | 22.76   | 24.00   |
|           |            | 75      | 0         | 22.43   | 22.46   | 22.76   | 22.54   | 22.70   | 24.00   |
|           | 256QAM     | 1       | 0         | 20.64   | 20.44   | 20.64   | 20.63   | 20.63   | 22.00   |
|           |            | 1       | 38        | 20.54   | 20.60   | 20.64   | 20.67   | 20.60   | 22.00   |
|           |            | 1       | 74        | 20.70   | 20.71   | 20.54   | 20.61   | 20.65   | 22.00   |
|           |            | 36      | 0         | 20.70   | 20.50   | 20.62   | 20.54   | 20.54   | 22.00   |
|           | 64QAM      | 36      | 18        | 20.69   | 20.45   | 20.71   | 20.74   | 20.74   | 22.00   |

|           |            | 36      | 39        | 20.44   | 20.35   | 20.71   | 20.78   | 20.84   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 75      | 0         | 20.31   | 20.49   | 20.76   | 20.57   | 20.68   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| 20MHz     | QPSK       | 1       | 0         | 25.64   | 25.64   | 26.02   | 25.58   | 25.71   | 27.00   |
|           |            | 1       | 50        | 25.47   | 25.55   | 25.68   | 25.71   | 25.45   | 27.00   |
|           |            | 1       | 99        | 25.4    | 25.43   | 25.86   | 25.41   | 25.88   | 27.00   |
|           |            | 50      | 0         | 24.5    | 24.5    | 25.11   | 24.72   | 24.77   | 26.00   |
|           |            | 50      | 25        | 24.29   | 24.37   | 24.59   | 24.56   | 24.8    | 26.00   |
|           |            | 50      | 50        | 24.61   | 24.63   | 24.79   | 24.44   | 24.68   | 26.00   |
|           |            | 100     | 0         | 24.52   | 24.59   | 24.64   | 24.59   | 24.65   | 26.00   |
|           | 16QAM      | 1       | 0         | 24.66   | 24.66   | 24.62   | 24.7    | 24.81   | 26.00   |
|           |            | 1       | 50        | 24.4    | 24.42   | 24.62   | 24.61   | 24.63   | 26.00   |
|           |            | 1       | 99        | 24.53   | 24.47   | 24.58   | 24.55   | 24.67   | 26.00   |
|           |            | 50      | 0         | 23.61   | 23.37   | 23.54   | 23.66   | 23.62   | 25.00   |
|           |            | 50      | 25        | 23.64   | 23.45   | 23.71   | 23.67   | 23.68   | 25.00   |
|           |            | 50      | 50        | 23.39   | 23.43   | 23.73   | 23.63   | 23.67   | 25.00   |
|           |            | 100     | 0         | 23.51   | 23.56   | 23.58   | 23.78   | 23.56   | 25.00   |
|           | 64QAM      | 1       | 0         | 23.62   | 23.77   | 23.74   | 23.79   | 23.67   | 25.00   |
|           |            | 1       | 50        | 23.42   | 23.70   | 23.53   | 23.41   | 23.59   | 25.00   |
|           |            | 1       | 99        | 23.61   | 23.58   | 23.65   | 23.51   | 23.71   | 25.00   |
|           |            | 50      | 0         | 22.51   | 22.47   | 22.77   | 22.53   | 22.84   | 24.00   |
|           |            | 50      | 25        | 22.51   | 22.41   | 22.66   | 22.56   | 22.43   | 24.00   |
|           |            | 50      | 50        | 22.53   | 22.51   | 22.75   | 22.52   | 22.74   | 24.00   |
|           |            | 100     | 0         | 22.44   | 22.44   | 22.78   | 22.59   | 22.64   | 24.00   |
|           | 256QAM     | 1       | 0         | 20.64   | 20.45   | 20.62   | 20.59   | 20.63   | 22.00   |
|           |            | 1       | 50        | 20.55   | 20.57   | 20.62   | 20.71   | 20.59   | 22.00   |
|           |            | 1       | 99        | 20.68   | 20.68   | 20.62   | 20.59   | 20.58   | 22.00   |
|           |            | 50      | 0         | 20.65   | 20.44   | 20.63   | 20.52   | 20.55   | 22.00   |
|           |            | 50      | 25        | 20.65   | 20.52   | 20.73   | 20.70   | 20.72   | 22.00   |
|           |            | 50      | 50        | 20.44   | 20.31   | 20.76   | 20.75   | 20.86   | 22.00   |
|           |            | 100     | 0         | 20.31   | 20.49   | 20.71   | 20.60   | 20.65   | 22.00   |

## 1.2 Conducted Power of Legacy (Ant1)

| WCDMA Band II Body worn/Hotspot |              |       |       |       |         |
|---------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)    |              |       |       |       |         |
| Channel                         |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                           | 12.2kbps RMC | 22.17 | 22.34 | 22.21 | 24.00   |
|                                 | 12.2kbps AMR | 22.2  | 22.33 | 22.11 | 24.00   |
| HSDPA                           | Subtest 1    | 22.07 | 22.19 | 22.16 | 24.00   |
|                                 | Subtest 2    | 22.09 | 22.19 | 22.20 | 24.00   |
|                                 | Subtest 3    | 21.71 | 21.73 | 21.73 | 23.50   |
|                                 | Subtest 4    | 21.68 | 21.74 | 21.74 | 23.50   |
| HSUPA                           | Subtest 1    | 22.10 | 22.16 | 22.17 | 24.00   |
|                                 | Subtest 2    | 22.05 | 22.11 | 22.20 | 24.00   |
|                                 | Subtest 3    | 21.71 | 21.75 | 21.70 | 23.50   |
|                                 | Subtest 4    | 21.64 | 21.85 | 21.75 | 23.50   |
|                                 | Subtest 5    | 22.19 | 22.16 | 22.13 | 24.00   |
| HSPA+                           | 16QAM        | 19.68 | 19.74 | 19.70 | 21.50   |

| WCDMA Band IV full power/Head |              |       |       |       |         |
|-------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)  |              |       |       |       |         |
| Channel                       |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                         | 12.2kbps RMC | 24.06 | 24.18 | 24.12 | 25.00   |
|                               | 12.2kbps AMR | 24.08 | 24.14 | 24.09 | 25.00   |
| HSDPA                         | Subtest 1    | 24.11 | 24.12 | 24.09 | 25.00   |
|                               | Subtest 2    | 24.10 | 24.15 | 24.13 | 25.00   |
|                               | Subtest 3    | 23.76 | 23.75 | 23.72 | 24.50   |
|                               | Subtest 4    | 23.66 | 23.74 | 23.68 | 24.50   |
| HSUPA                         | Subtest 1    | 23.33 | 23.31 | 23.36 | 25.00   |
|                               | Subtest 2    | 23.29 | 23.27 | 23.25 | 25.00   |
|                               | Subtest 3    | 22.86 | 22.92 | 22.93 | 24.50   |
|                               | Subtest 4    | 22.89 | 22.89 | 22.92 | 24.50   |
|                               | Subtest 5    | 23.30 | 23.32 | 23.33 | 25.00   |
| HSPA+                         | 16QAM        | 20.96 | 20.89 | 20.88 | 22.50   |

| WCDMA Band IV Body worn/Hotspot |              |       |       |       |         |
|---------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)    |              |       |       |       |         |
| Channel                         |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                           | 12.2kbps RMC | 23.54 | 23.67 | 23.61 | 24.50   |
|                                 | 12.2kbps AMR | 23.53 | 23.6  | 23.58 | 24.50   |
| HSDPA                           | Subtest 1    | 23.62 | 23.62 | 23.57 | 24.50   |
|                                 | Subtest 2    | 23.60 | 23.63 | 23.65 | 24.50   |
|                                 | Subtest 3    | 23.22 | 23.22 | 23.21 | 24.00   |
|                                 | Subtest 4    | 23.14 | 23.21 | 23.17 | 24.00   |
| HSUPA                           | Subtest 1    | 22.84 | 22.82 | 22.87 | 24.50   |
|                                 | Subtest 2    | 22.76 | 22.78 | 22.77 | 24.50   |
|                                 | Subtest 3    | 22.32 | 22.45 | 22.45 | 24.00   |
|                                 | Subtest 4    | 22.42 | 22.40 | 22.42 | 24.00   |
|                                 | Subtest 5    | 22.77 | 22.83 | 22.82 | 24.50   |
| HSPA+                           | 16QAM        | 20.44 | 20.39 | 20.33 | 22.00   |

| WCDMA Band V full power/Head/Body worn/Hotspot |              |       |       |       |         |
|------------------------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm)                   |              |       |       |       |         |
| Channel                                        |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                                          | 12.2kbps RMC | 23.43 | 23.53 | 23.45 | 25.00   |
|                                                | 12.2kbps AMR | 23.36 | 23.50 | 23.43 | 25.00   |
| HSDPA                                          | Subtest 1    | 23.31 | 23.44 | 23.34 | 25.00   |
|                                                | Subtest 2    | 23.40 | 23.45 | 23.39 | 25.00   |
|                                                | Subtest 3    | 22.94 | 23.09 | 23.02 | 24.50   |
|                                                | Subtest 4    | 23.06 | 23.01 | 23.10 | 24.50   |
| HSUPA                                          | Subtest 1    | 23.40 | 23.51 | 23.36 | 25.00   |
|                                                | Subtest 2    | 23.48 | 23.44 | 23.45 | 25.00   |
|                                                | Subtest 3    | 22.98 | 23.08 | 22.90 | 24.50   |
|                                                | Subtest 4    | 23.12 | 23.08 | 23.04 | 24.50   |
|                                                | Subtest 5    | 23.33 | 23.43 | 23.41 | 25.00   |
| HSPA+                                          | 16QAM        | 20.95 | 21.04 | 20.99 | 22.50   |



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| LTE Band 2 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                              |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz                                       | QPSK       | 1       | 0         | 22.33                | 22.35   | 22.42   | 24.00   |
|                                              |            | 1       | 2         | 22.15                | 22.55   | 22.32   | 24.00   |
|                                              |            | 1       | 5         | 22.35                | 22.43   | 22.42   | 24.00   |
|                                              |            | 3       | 0         | 22.46                | 22.40   | 22.35   | 24.00   |
|                                              |            | 3       | 2         | 22.17                | 22.73   | 22.33   | 24.00   |
|                                              |            | 3       | 3         | 22.24                | 22.71   | 22.24   | 24.00   |
|                                              | 16QAM      | 6       | 0         | 21.17                | 21.61   | 21.24   | 23.00   |
|                                              |            | 1       | 0         | 21.40                | 21.57   | 21.57   | 23.00   |
|                                              |            | 1       | 2         | 21.35                | 21.60   | 21.31   | 23.00   |
|                                              |            | 1       | 5         | 21.58                | 21.52   | 21.25   | 23.00   |
|                                              |            | 3       | 0         | 21.42                | 21.53   | 21.50   | 23.00   |
|                                              |            | 3       | 2         | 21.35                | 21.57   | 21.52   | 23.00   |
|                                              | 64QAM      | 3       | 3         | 21.46                | 21.44   | 21.55   | 23.00   |
|                                              |            | 6       | 0         | 20.39                | 20.31   | 20.26   | 22.00   |
|                                              |            | 1       | 0         | 20.53                | 20.66   | 20.61   | 22.00   |
|                                              |            | 1       | 2         | 20.46                | 20.54   | 20.45   | 22.00   |
|                                              |            | 1       | 5         | 20.41                | 20.23   | 20.13   | 22.00   |
|                                              |            | 3       | 0         | 20.45                | 20.53   | 20.21   | 22.00   |
|                                              | 256QAM     | 3       | 2         | 20.49                | 20.47   | 20.28   | 22.00   |
|                                              |            | 3       | 3         | 20.28                | 20.51   | 20.08   | 22.00   |
|                                              |            | 6       | 0         | 19.28                | 19.44   | 19.28   | 21.00   |
|                                              |            | 1       | 0         | 17.57                | 17.52   | 17.57   | 19.00   |
|                                              |            | 1       | 2         | 17.09                | 17.39   | 17.41   | 19.00   |
|                                              |            | 1       | 5         | 17.36                | 17.55   | 17.58   | 19.00   |
| 3MHz                                         | QPSK       | 3       | 0         | 17.52                | 17.27   | 17.26   | 19.00   |
|                                              |            | 3       | 2         | 17.45                | 17.53   | 17.29   | 19.00   |
|                                              |            | 3       | 3         | 17.53                | 17.54   | 17.31   | 19.00   |
|                                              |            | 6       | 0         | 17.39                | 17.27   | 17.25   | 19.00   |
|                                              | 16QAM      | 1       | 0         | 22.36                | 22.40   | 22.34   | 24.00   |
|                                              |            | 1       | 7         | 22.23                | 22.56   | 22.31   | 24.00   |
|                                              |            | 1       | 14        | 22.42                | 22.43   | 22.38   | 24.00   |
|                                              |            | 8       | 0         | 21.47                | 21.41   | 21.45   | 23.00   |
|                                              |            | 8       | 4         | 21.26                | 21.74   | 21.28   | 23.00   |
|                                              |            | 8       | 7         | 21.22                | 21.61   | 21.22   | 23.00   |
|                                              | 64QAM      | 15      | 0         | 21.19                | 21.63   | 21.33   | 23.00   |
|                                              |            | 1       | 0         | 21.30                | 21.54   | 21.51   | 23.00   |
|                                              |            | 1       | 7         | 21.35                | 21.55   | 21.30   | 23.00   |
|                                              |            | 1       | 14        | 21.64                | 21.47   | 21.19   | 23.00   |
|                                              |            | 8       | 0         | 20.38                | 20.60   | 20.41   | 22.00   |
|                                              |            | 8       | 4         | 20.41                | 20.49   | 20.51   | 22.00   |
|                                              | 256QAM     | 8       | 7         | 20.49                | 20.37   | 20.54   | 22.00   |
|                                              |            | 15      | 0         | 20.39                | 20.41   | 20.25   | 22.00   |
|                                              |            | 1       | 0         | 20.53                | 20.70   | 20.54   | 22.00   |
|                                              |            | 1       | 7         | 20.39                | 20.60   | 20.51   | 22.00   |
|                                              |            | 1       | 14        | 20.41                | 20.33   | 20.17   | 22.00   |
|                                              |            | 8       | 0         | 19.38                | 19.43   | 19.13   | 21.00   |
| 5MHz                                         | QPSK       | 8       | 4         | 19.49                | 19.49   | 19.33   | 21.00   |
|                                              |            | 8       | 7         | 19.26                | 19.47   | 19.14   | 21.00   |
|                                              |            | 15      | 0         | 19.18                | 19.40   | 19.28   | 21.00   |
|                                              |            | 1       | 0         | 17.53                | 17.43   | 17.49   | 19.00   |
|                                              |            | 1       | 7         | 17.19                | 17.45   | 17.33   | 19.00   |
|                                              |            | 1       | 14        | 17.37                | 17.47   | 17.55   | 19.00   |
|                                              | 16QAM      | 8       | 0         | 17.62                | 17.31   | 17.29   | 19.00   |
|                                              |            | 8       | 4         | 17.37                | 17.48   | 17.35   | 19.00   |
|                                              |            | 8       | 7         | 17.48                | 17.64   | 17.27   | 19.00   |
|                                              |            | 15      | 0         | 17.49                | 17.35   | 17.15   | 19.00   |
|                                              | 64QAM      | 1       | 0         | 22.41                | 22.49   | 22.44   | 24.00   |
|                                              |            | 1       | 13        | 22.20                | 22.49   | 22.30   | 24.00   |
|                                              |            | 1       | 24        | 22.33                | 22.35   | 22.31   | 24.00   |
|                                              |            | 12      | 0         | 21.49                | 21.36   | 21.47   | 23.00   |
|                                              |            | 12      | 6         | 21.34                | 21.70   | 21.38   | 23.00   |
|                                              |            | 12      | 13        | 21.14                | 21.63   | 21.25   | 23.00   |

|           | 16QAM      | 25      | 0         | 21.25   | 21.54   | 21.32   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 21.32   | 21.52   | 21.42   | 23.00   |
|           |            | 1       | 13        | 21.32   | 21.52   | 21.35   | 23.00   |
|           |            | 1       | 24        | 21.56   | 21.54   | 21.26   | 23.00   |
|           |            | 12      | 0         | 20.42   | 20.69   | 20.45   | 22.00   |
|           |            | 12      | 6         | 20.42   | 20.57   | 20.60   | 22.00   |
|           |            | 12      | 13        | 20.55   | 20.47   | 20.47   | 22.00   |
|           | 64QAM      | 25      | 0         | 20.40   | 20.33   | 20.35   | 22.00   |
|           |            | 1       | 0         | 20.47   | 20.65   | 20.51   | 22.00   |
|           |            | 1       | 13        | 20.46   | 20.59   | 20.49   | 22.00   |
|           |            | 1       | 24        | 20.40   | 20.33   | 20.22   | 22.00   |
|           |            | 12      | 0         | 19.35   | 19.40   | 19.18   | 21.00   |
|           |            | 12      | 6         | 19.55   | 19.50   | 19.32   | 21.00   |
|           |            | 12      | 13        | 19.25   | 19.45   | 19.24   | 21.00   |
|           | 256QAM     | 25      | 0         | 19.22   | 19.35   | 19.30   | 21.00   |
|           |            | 1       | 0         | 17.48   | 17.40   | 17.51   | 19.00   |
|           |            | 1       | 13        | 17.26   | 17.40   | 17.41   | 19.00   |
|           |            | 1       | 24        | 17.37   | 17.47   | 17.53   | 19.00   |
|           |            | 12      | 0         | 17.52   | 17.32   | 17.25   | 19.00   |
|           |            | 12      | 6         | 17.27   | 17.46   | 17.41   | 19.00   |
|           |            | 12      | 13        | 17.43   | 17.65   | 17.34   | 19.00   |
|           |            | 25      | 0         | 17.40   | 17.33   | 17.24   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.42   | 22.43   | 22.35   | 24.00   |
|           |            | 1       | 25        | 22.19   | 22.44   | 22.27   | 24.00   |
|           |            | 1       | 49        | 22.37   | 22.39   | 22.25   | 24.00   |
|           |            | 25      | 0         | 21.43   | 21.39   | 21.40   | 23.00   |
|           |            | 25      | 13        | 21.40   | 21.64   | 21.35   | 23.00   |
|           |            | 25      | 25        | 21.20   | 21.61   | 21.17   | 23.00   |
|           |            | 50      | 0         | 21.24   | 21.59   | 21.40   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.36   | 21.51   | 21.33   | 23.00   |
|           |            | 1       | 25        | 21.39   | 21.44   | 21.38   | 23.00   |
|           |            | 1       | 49        | 21.47   | 21.61   | 21.21   | 23.00   |
|           |            | 25      | 0         | 20.49   | 20.59   | 20.37   | 22.00   |
|           |            | 25      | 13        | 20.39   | 20.65   | 20.57   | 22.00   |
|           |            | 25      | 25        | 20.45   | 20.41   | 20.42   | 22.00   |
|           |            | 50      | 0         | 20.34   | 20.42   | 20.37   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.42   | 20.57   | 20.41   | 22.00   |
|           |            | 1       | 25        | 20.37   | 20.53   | 20.41   | 22.00   |
|           |            | 1       | 49        | 20.30   | 20.39   | 20.31   | 22.00   |
|           |            | 25      | 0         | 19.37   | 19.41   | 19.24   | 21.00   |
|           |            | 25      | 13        | 19.53   | 19.42   | 19.22   | 21.00   |
|           |            | 25      | 25        | 19.25   | 19.47   | 19.32   | 21.00   |
|           |            | 50      | 0         | 19.26   | 19.35   | 19.40   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.51   | 17.44   | 17.47   | 19.00   |
|           |            | 1       | 25        | 17.32   | 17.45   | 17.32   | 19.00   |
|           |            | 1       | 49        | 17.42   | 17.55   | 17.50   | 19.00   |
|           |            | 25      | 0         | 17.47   | 17.38   | 17.34   | 19.00   |
|           |            | 25      | 13        | 17.33   | 17.48   | 17.31   | 19.00   |
|           |            | 25      | 25        | 17.46   | 17.61   | 17.30   | 19.00   |
|           |            | 50      | 0         | 17.34   | 17.36   | 17.22   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.33   | 22.51   | 22.39   | 24.00   |
|           |            | 1       | 38        | 22.29   | 22.47   | 22.25   | 24.00   |
|           |            | 1       | 74        | 22.44   | 22.47   | 22.35   | 24.00   |
|           |            | 36      | 0         | 21.40   | 21.47   | 21.39   | 23.00   |
|           |            | 36      | 18        | 21.40   | 21.59   | 21.42   | 23.00   |
|           |            | 36      | 39        | 21.27   | 21.54   | 21.26   | 23.00   |
|           |            | 75      | 0         | 21.34   | 21.51   | 21.33   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.33   | 21.49   | 21.36   | 23.00   |
|           |            | 1       | 38        | 21.42   | 21.43   | 21.35   | 23.00   |
|           |            | 1       | 74        | 21.41   | 21.51   | 21.19   | 23.00   |
|           |            | 36      | 0         | 20.40   | 20.55   | 20.28   | 22.00   |
|           |            | 36      | 18        | 20.43   | 20.60   | 20.47   | 22.00   |
|           |            | 36      | 39        | 20.46   | 20.48   | 20.40   | 22.00   |
|           |            | 75      | 0         | 20.44   | 20.39   | 20.38   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.47   | 20.47   | 20.44   | 22.00   |
|           |            | 1       | 38        | 20.46   | 20.43   | 20.42   | 22.00   |

|           |            |         |           |                  |                  |                  |         |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 1       | 74        | 20.40            | 20.47            | 20.32            | 22.00   |
|           |            | 36      | 0         | 19.30            | 19.50            | 19.31            | 21.00   |
|           |            | 36      | 18        | 19.44            | 19.36            | 19.26            | 21.00   |
|           |            | 36      | 39        | 19.30            | 19.49            | 19.38            | 21.00   |
|           |            | 75      | 0         | 19.26            | 19.38            | 19.42            | 21.00   |
|           | 256QAM     | 1       | 0         | 17.41            | 17.54            | 17.40            | 19.00   |
|           |            | 1       | 38        | 17.33            | 17.46            | 17.31            | 19.00   |
|           |            | 1       | 74        | 17.47            | 17.57            | 17.50            | 19.00   |
|           |            | 36      | 0         | 17.39            | 17.42            | 17.30            | 19.00   |
|           |            | 36      | 18        | 17.34            | 17.51            | 17.21            | 19.00   |
|           |            | 36      | 39        | 17.37            | 17.53            | 17.35            | 19.00   |
|           |            | 75      | 0         | 17.42            | 17.36            | 17.26            | 19.00   |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>18700 | Channel<br>18900 | Channel<br>19100 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 22.35            | 22.49            | 22.39            | 24.00   |
|           |            | 1       | 50        | 22.37            | 22.45            | 22.31            | 24.00   |
|           |            | 1       | 99        | 22.36            | 22.45            | 22.37            | 24.00   |
|           |            | 50      | 0         | 21.37            | 21.49            | 21.39            | 23.00   |
|           |            | 50      | 25        | 21.36            | 21.49            | 21.36            | 23.00   |
|           |            | 50      | 50        | 21.35            | 21.44            | 21.36            | 23.00   |
|           | 16QAM      | 100     | 0         | 21.38            | 21.50            | 21.40            | 23.00   |
|           |            | 1       | 0         | 21.33            | 21.48            | 21.40            | 23.00   |
|           |            | 1       | 50        | 21.38            | 21.49            | 21.40            | 23.00   |
|           |            | 1       | 99        | 21.31            | 21.42            | 21.28            | 23.00   |
|           |            | 50      | 0         | 20.32            | 20.46            | 20.32            | 22.00   |
|           |            | 50      | 25        | 20.37            | 20.50            | 20.38            | 22.00   |
|           | 64QAM      | 50      | 50        | 20.37            | 20.47            | 20.39            | 22.00   |
|           |            | 100     | 0         | 20.37            | 20.48            | 20.38            | 22.00   |
|           |            | 1       | 0         | 20.41            | 20.49            | 20.35            | 22.00   |
|           |            | 1       | 50        | 20.36            | 20.49            | 20.38            | 22.00   |
|           |            | 1       | 99        | 20.38            | 20.50            | 20.39            | 22.00   |
|           |            | 50      | 0         | 19.34            | 19.43            | 19.31            | 21.00   |
|           | 256QAM     | 50      | 25        | 19.34            | 19.44            | 19.35            | 21.00   |
|           |            | 50      | 50        | 19.34            | 19.46            | 19.36            | 21.00   |
|           |            | 100     | 0         | 19.35            | 19.47            | 19.36            | 21.00   |
|           |            | 1       | 0         | 17.34            | 17.47            | 17.37            | 19.00   |
|           |            | 1       | 50        | 17.29            | 17.44            | 17.34            | 19.00   |
|           |            | 1       | 99        | 17.38            | 17.49            | 17.42            | 19.00   |
|           |            | 50      | 0         | 17.38            | 17.46            | 17.36            | 19.00   |
|           |            | 50      | 25        | 17.29            | 17.44            | 17.31            | 19.00   |
|           |            | 50      | 50        | 17.34            | 17.48            | 17.34            | 19.00   |
|           |            | 100     | 0         | 17.36            | 17.44            | 17.32            | 19.00   |
|           |            |         |           |                  |                  |                  |         |
|           |            |         |           |                  |                  |                  |         |

| LTE Band 2 Body worn For Simultaneous |            |         |           | Conducted Power(dBm) |                  |                  |         |
|---------------------------------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth                             | Modulation | RB size | RB offset | Channel<br>18607     | Channel<br>18900 | Channel<br>19193 | Tune up |
| 1.4MHz                                | QPSK       | 1       | 0         | 19.82                | 20.02            | 20.06            | 21.50   |
|                                       |            | 1       | 2         | 20.08                | 20.01            | 20.16            | 21.50   |
|                                       |            | 1       | 5         | 20.05                | 19.93            | 20.04            | 21.50   |
|                                       |            | 3       | 0         | 20.15                | 20.13            | 20.02            | 21.50   |
|                                       |            | 3       | 2         | 20.13                | 19.96            | 19.86            | 21.50   |
|                                       |            | 3       | 3         | 20.05                | 20.02            | 20.18            | 21.50   |
|                                       | 16QAM      | 6       | 0         | 20.25                | 19.91            | 19.96            | 21.50   |
|                                       |            | 1       | 0         | 19.94                | 19.99            | 20.01            | 21.50   |
|                                       |            | 1       | 2         | 19.85                | 19.79            | 20.34            | 21.50   |
|                                       |            | 1       | 5         | 19.96                | 20.01            | 20.14            | 21.50   |
|                                       |            | 3       | 0         | 20.01                | 19.64            | 19.98            | 21.50   |
|                                       |            | 3       | 2         | 20.02                | 20.14            | 20.00            | 21.50   |
|                                       | 64QAM      | 3       | 3         | 20.03                | 20.08            | 20.09            | 21.50   |
|                                       |            | 6       | 0         | 20.09                | 19.87            | 19.67            | 21.50   |
|                                       |            | 1       | 0         | 20.36                | 20.18            | 20.13            | 21.50   |
|                                       |            | 1       | 2         | 19.74                | 19.82            | 19.99            | 21.50   |
|                                       |            | 1       | 5         | 20.02                | 20.13            | 20.12            | 21.50   |
|                                       |            | 3       | 0         | 19.88                | 19.85            | 20.05            | 21.50   |
|                                       | 256QAM     | 3       | 2         | 19.85                | 19.91            | 20.20            | 21.50   |
|                                       |            | 3       | 3         | 19.92                | 20.08            | 20.10            | 21.50   |
|                                       |            | 6       | 0         | 19.33                | 19.40            | 19.43            | 21.00   |
|                                       |            | 1       | 0         | 17.44                | 17.56            | 17.28            | 19.00   |
|                                       |            |         |           |                      |                  |                  |         |
|                                       |            |         |           |                      |                  |                  |         |

|           |            | 1       | 2         | 17.47   | 17.30   | 17.42   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 5         | 17.67   | 17.41   | 17.80   | 19.00   |
|           |            | 3       | 0         | 17.51   | 17.36   | 17.36   | 19.00   |
|           |            | 3       | 2         | 17.43   | 17.34   | 17.26   | 19.00   |
|           |            | 3       | 3         | 17.44   | 17.55   | 17.65   | 19.00   |
|           |            | 6       | 0         | 17.39   | 17.42   | 17.64   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18615   | 18900   | 19185   |         |
| 3MHz      | QPSK       | 1       | 0         | 19.83   | 20.11   | 20.10   | 21.50   |
|           |            | 1       | 7         | 20.04   | 20.08   | 20.19   | 21.50   |
|           |            | 1       | 14        | 20.01   | 19.97   | 20.11   | 21.50   |
|           |            | 8       | 0         | 20.20   | 20.03   | 20.02   | 21.50   |
|           |            | 8       | 4         | 20.11   | 19.95   | 19.96   | 21.50   |
|           |            | 8       | 7         | 20.11   | 19.99   | 20.08   | 21.50   |
|           | 16QAM      | 15      | 0         | 20.20   | 19.92   | 19.89   | 21.50   |
|           |            | 1       | 0         | 20.02   | 20.09   | 19.91   | 21.50   |
|           |            | 1       | 7         | 19.81   | 19.82   | 20.25   | 21.50   |
|           |            | 1       | 14        | 19.91   | 19.98   | 20.15   | 21.50   |
|           |            | 8       | 0         | 20.06   | 19.73   | 19.91   | 21.50   |
|           |            | 8       | 4         | 20.07   | 20.04   | 19.99   | 21.50   |
|           | 64QAM      | 8       | 7         | 20.03   | 20.02   | 20.14   | 21.50   |
|           |            | 15      | 0         | 20.00   | 19.96   | 19.72   | 21.50   |
|           |            | 1       | 0         | 20.28   | 20.11   | 20.06   | 21.50   |
|           |            | 1       | 7         | 19.64   | 19.90   | 19.98   | 21.50   |
|           |            | 1       | 14        | 20.00   | 20.12   | 20.06   | 21.50   |
|           |            | 8       | 0         | 19.35   | 19.45   | 19.59   | 21.00   |
|           | 256QAM     | 8       | 4         | 19.25   | 19.51   | 19.64   | 21.00   |
|           |            | 8       | 7         | 19.46   | 19.51   | 19.51   | 21.00   |
|           |            | 15      | 0         | 19.27   | 19.42   | 19.47   | 21.00   |
|           |            | 1       | 0         | 17.41   | 17.48   | 17.33   | 19.00   |
|           |            | 1       | 7         | 17.37   | 17.34   | 17.49   | 19.00   |
|           |            | 1       | 14        | 17.73   | 17.44   | 17.71   | 19.00   |
| 5MHz      | QPSK       | 8       | 0         | 17.41   | 17.41   | 17.33   | 19.00   |
|           |            | 8       | 4         | 17.49   | 17.35   | 17.26   | 19.00   |
|           |            | 8       | 7         | 17.41   | 17.47   | 17.69   | 19.00   |
|           |            | 15      | 0         | 17.40   | 17.52   | 17.54   | 19.00   |
|           | 16QAM      | 1       | 0         | 19.83   | 20.14   | 20.07   | 21.50   |
|           |            | 1       | 13        | 19.97   | 20.05   | 20.13   | 21.50   |
|           |            | 1       | 24        | 19.91   | 19.87   | 20.06   | 21.50   |
|           |            | 12      | 0         | 20.10   | 20.07   | 20.02   | 21.50   |
|           |            | 12      | 6         | 20.04   | 20.04   | 19.99   | 21.50   |
|           |            | 12      | 13        | 20.11   | 20.00   | 20.08   | 21.50   |
|           | 64QAM      | 25      | 0         | 20.20   | 19.89   | 19.98   | 21.50   |
|           |            | 1       | 0         | 19.94   | 20.03   | 19.85   | 21.50   |
|           |            | 1       | 13        | 19.81   | 19.81   | 20.20   | 21.50   |
|           |            | 1       | 24        | 19.92   | 19.88   | 20.19   | 21.50   |
|           |            | 12      | 0         | 20.06   | 19.76   | 19.96   | 21.50   |
|           |            | 12      | 6         | 20.05   | 20.09   | 20.02   | 21.50   |
|           | 256QAM     | 12      | 13        | 20.06   | 20.02   | 20.06   | 21.50   |
|           |            | 25      | 0         | 20.05   | 20.02   | 19.79   | 21.50   |
|           |            | 1       | 0         | 20.35   | 20.09   | 19.96   | 21.50   |
|           |            | 1       | 13        | 19.74   | 19.96   | 20.05   | 21.50   |
|           |            | 1       | 24        | 19.94   | 20.12   | 19.99   | 21.50   |
|           |            | 12      | 0         | 19.37   | 19.40   | 19.54   | 21.00   |
| 10MHz     | QPSK       | 12      | 6         | 19.34   | 19.45   | 19.55   | 21.00   |
|           |            | 12      | 13        | 19.49   | 19.43   | 19.49   | 21.00   |
|           |            | 25      | 0         | 19.26   | 19.49   | 19.43   | 21.00   |
|           |            | 1       | 0         | 17.42   | 17.50   | 17.24   | 19.00   |
|           |            | 1       | 13        | 17.31   | 17.37   | 17.51   | 19.00   |
|           |            | 1       | 24        | 17.63   | 17.38   | 17.66   | 19.00   |
|           | 16QAM      | 12      | 0         | 17.37   | 17.33   | 17.42   | 19.00   |
|           |            | 12      | 6         | 17.39   | 17.45   | 17.36   | 19.00   |
|           |            | 12      | 13        | 17.44   | 17.53   | 17.66   | 19.00   |
|           |            | 25      | 0         | 17.44   | 17.55   | 17.53   | 19.00   |
|           | 64QAM      | 1       | 0         | 19.87   | 20.16   | 20.04   | 21.50   |
|           |            | 1       | 25        | 19.93   | 20.06   | 20.05   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 49        | 20.01   | 19.95   | 19.99   | 21.50   |
|           |            | 25      | 0         | 20.04   | 20.04   | 20.00   | 21.50   |
|           |            | 25      | 13        | 20.08   | 20.01   | 20.07   | 21.50   |
|           |            | 25      | 25        | 20.01   | 20.00   | 19.99   | 21.50   |
|           |            | 50      | 0         | 20.17   | 19.99   | 19.95   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.00   | 20.05   | 19.93   | 21.50   |
|           |            | 1       | 25        | 19.82   | 19.88   | 20.16   | 21.50   |
|           |            | 1       | 49        | 19.88   | 19.96   | 20.13   | 21.50   |
|           |            | 25      | 0         | 20.04   | 19.78   | 19.90   | 21.50   |
|           |            | 25      | 13        | 20.01   | 20.03   | 20.02   | 21.50   |
|           | 64QAM      | 25      | 25        | 20.13   | 20.02   | 20.03   | 21.50   |
|           |            | 50      | 0         | 19.98   | 20.00   | 19.84   | 21.50   |
|           |            | 1       | 0         | 20.26   | 20.10   | 19.94   | 21.50   |
|           |            | 1       | 25        | 19.84   | 19.93   | 19.98   | 21.50   |
|           |            | 1       | 49        | 20.00   | 20.18   | 19.91   | 21.50   |
|           | 256QAM     | 25      | 0         | 19.41   | 19.49   | 19.44   | 21.00   |
|           |            | 25      | 13        | 19.37   | 19.42   | 19.47   | 21.00   |
|           |            | 25      | 25        | 19.44   | 19.38   | 19.48   | 21.00   |
|           |            | 50      | 0         | 19.25   | 19.39   | 19.45   | 21.00   |
|           |            | 1       | 0         | 17.52   | 17.47   | 17.30   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.97   | 20.15   | 20.04   | 21.50   |
|           |            | 1       | 38        | 19.92   | 19.98   | 19.99   | 21.50   |
|           |            | 1       | 74        | 19.98   | 19.93   | 19.92   | 21.50   |
|           |            | 36      | 0         | 19.98   | 19.99   | 20.03   | 21.50   |
|           |            | 36      | 18        | 20.14   | 20.08   | 20.00   | 21.50   |
|           |            | 36      | 39        | 20.05   | 20.07   | 19.94   | 21.50   |
|           | 16QAM      | 75      | 0         | 20.07   | 19.95   | 19.94   | 21.50   |
|           |            | 1       | 0         | 19.95   | 20.08   | 19.98   | 21.50   |
|           |            | 1       | 38        | 19.92   | 19.86   | 20.08   | 21.50   |
|           |            | 1       | 74        | 19.98   | 20.04   | 20.04   | 21.50   |
|           |            | 36      | 0         | 19.98   | 19.85   | 19.99   | 21.50   |
|           |            | 36      | 18        | 20.04   | 19.99   | 19.93   | 21.50   |
|           | 64QAM      | 36      | 39        | 20.03   | 19.96   | 20.04   | 21.50   |
|           |            | 75      | 0         | 19.94   | 20.10   | 19.87   | 21.50   |
|           |            | 1       | 0         | 20.16   | 20.18   | 20.02   | 21.50   |
|           |            | 1       | 38        | 19.87   | 19.92   | 19.89   | 21.50   |
|           |            | 1       | 74        | 20.05   | 20.16   | 20.01   | 21.50   |
|           |            | 36      | 0         | 19.49   | 19.52   | 19.48   | 21.00   |
|           | 256QAM     | 36      | 18        | 19.36   | 19.44   | 19.40   | 21.00   |
|           |            | 36      | 39        | 19.45   | 19.33   | 19.47   | 21.00   |
|           |            | 75      | 0         | 19.35   | 19.45   | 19.53   | 21.00   |
|           |            | 1       | 0         | 17.48   | 17.49   | 17.38   | 19.00   |
|           |            | 1       | 38        | 17.29   | 17.37   | 17.55   | 19.00   |
|           |            | 1       | 74        | 17.57   | 17.37   | 17.63   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.99   | 20.10   | 19.98   | 21.50   |
|           |            | 1       | 50        | 20.02   | 19.94   | 19.94   | 21.50   |
|           |            | 1       | 99        | 19.93   | 20.01   | 20.00   | 21.50   |
|           |            | 50      | 0         | 19.98   | 20.08   | 20.06   | 21.50   |
|           |            | 50      | 25        | 20.05   | 20.02   | 19.98   | 21.50   |
|           |            | 50      | 50        | 19.97   | 19.98   | 19.92   | 21.50   |
|           | 16QAM      | 100     | 0         | 20.08   | 19.97   | 19.95   | 21.50   |
|           |            | 1       | 0         | 20.03   | 20.08   | 19.95   | 21.50   |
|           |            | 1       | 50        | 19.95   | 19.96   | 20.01   | 21.50   |
|           |            | 1       | 99        | 20.01   | 19.95   | 19.97   | 21.50   |
|           |            | 50      | 0         | 20.01   | 19.94   | 19.93   | 21.50   |
|           |            | 50      | 25        | 20.05   | 20.04   | 19.99   | 21.50   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 50  | 50 | 20.01 | 19.97 | 20.01 | 21.50 |
|  |        | 100 | 0  | 19.95 | 20.05 | 19.95 | 21.50 |
|  | 64QAM  | 1   | 0  | 20.09 | 20.08 | 19.99 | 21.50 |
|  |        | 1   | 50 | 19.97 | 20.00 | 19.97 | 21.50 |
|  |        | 1   | 99 | 20.06 | 20.09 | 20.04 | 21.50 |
|  |        | 50  | 0  | 19.48 | 19.43 | 19.44 | 21.00 |
|  |        | 50  | 25 | 19.44 | 19.50 | 19.47 | 21.00 |
|  |        | 50  | 50 | 19.55 | 19.41 | 19.43 | 21.00 |
|  |        | 100 | 0  | 19.43 | 19.53 | 19.47 | 21.00 |
|  |        | 1   | 0  | 17.52 | 17.51 | 17.47 | 19.00 |
|  | 256QAM | 1   | 50 | 17.39 | 17.45 | 17.53 | 19.00 |
|  |        | 1   | 99 | 17.54 | 17.47 | 17.54 | 19.00 |
|  |        | 50  | 0  | 17.43 | 17.46 | 17.47 | 19.00 |
|  |        | 50  | 25 | 17.51 | 17.47 | 17.47 | 19.00 |
|  |        | 50  | 50 | 17.51 | 17.43 | 17.44 | 19.00 |
|  |        | 100 | 0  | 17.40 | 17.50 | 17.54 | 19.00 |

| LTE Band 4 full power/Head |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                     | QPSK       | 1       | 0         | 23.21                | 23.18   | 23.17   | 25.00   |
|                            |            | 1       | 2         | 23.28                | 23.24   | 23.20   | 25.00   |
|                            |            | 1       | 5         | 23.38                | 23.47   | 23.45   | 25.00   |
|                            |            | 3       | 0         | 23.15                | 23.24   | 23.14   | 25.00   |
|                            |            | 3       | 2         | 23.50                | 23.55   | 23.59   | 25.00   |
|                            |            | 3       | 3         | 23.57                | 23.52   | 23.42   | 25.00   |
|                            | 16QAM      | 6       | 0         | 22.39                | 22.35   | 22.32   | 24.00   |
|                            |            | 1       | 0         | 22.15                | 22.21   | 22.29   | 24.00   |
|                            |            | 1       | 2         | 22.23                | 22.32   | 22.22   | 24.00   |
|                            |            | 1       | 5         | 22.01                | 22.02   | 22.04   | 24.00   |
|                            |            | 3       | 0         | 22.29                | 22.31   | 22.41   | 24.00   |
|                            |            | 3       | 2         | 22.29                | 22.26   | 22.20   | 24.00   |
|                            | 64QAM      | 3       | 3         | 22.10                | 22.16   | 22.06   | 24.00   |
|                            |            | 6       | 0         | 21.56                | 21.50   | 21.43   | 23.00   |
|                            |            | 1       | 0         | 21.21                | 21.16   | 21.08   | 23.00   |
|                            |            | 1       | 2         | 21.22                | 21.23   | 21.24   | 23.00   |
|                            |            | 1       | 5         | 21.43                | 21.40   | 21.33   | 23.00   |
|                            |            | 3       | 0         | 21.23                | 21.17   | 21.26   | 23.00   |
|                            | 256QAM     | 3       | 2         | 21.38                | 21.33   | 21.37   | 23.00   |
|                            |            | 3       | 3         | 21.33                | 21.24   | 21.14   | 23.00   |
|                            |            | 6       | 0         | 20.37                | 20.40   | 20.32   | 22.00   |
|                            |            | 1       | 0         | 18.09                | 18.07   | 18.03   | 20.00   |
|                            |            | 1       | 2         | 18.05                | 18.07   | 18.00   | 20.00   |
|                            |            | 1       | 5         | 18.60                | 18.56   | 18.52   | 20.00   |
| 3MHz                       | QPSK       | 3       | 0         | 18.18                | 18.15   | 18.13   | 20.00   |
|                            |            | 3       | 2         | 18.43                | 18.47   | 18.53   | 20.00   |
|                            |            | 3       | 3         | 18.54                | 18.47   | 18.54   | 20.00   |
|                            |            | 6       | 0         | 18.51                | 18.52   | 18.61   | 20.00   |
|                            |            | Channel | Channel   | Channel              | Channel | Channel | Tune up |
|                            |            | 19965   | 20175     | 20385                | 20385   | 20385   | 20.00   |
|                            | 16QAM      | 1       | 0         | 23.31                | 23.27   | 23.33   | 25.00   |
|                            |            | 1       | 7         | 23.28                | 23.30   | 23.39   | 25.00   |
|                            |            | 1       | 14        | 23.27                | 23.37   | 23.28   | 25.00   |
|                            |            | 8       | 0         | 22.42                | 22.34   | 22.44   | 24.00   |
|                            |            | 8       | 4         | 22.47                | 22.46   | 22.42   | 24.00   |
|                            |            | 8       | 7         | 22.44                | 22.42   | 22.38   | 24.00   |
|                            | 64QAM      | 15      | 0         | 22.35                | 22.45   | 22.37   | 24.00   |
|                            |            | 1       | 0         | 22.34                | 22.27   | 22.34   | 24.00   |
|                            |            | 1       | 7         | 22.27                | 22.23   | 22.21   | 24.00   |
|                            |            | 1       | 14        | 22.06                | 22.02   | 22.05   | 24.00   |
|                            |            | 8       | 0         | 21.15                | 21.21   | 21.24   | 23.00   |
|                            |            | 8       | 4         | 21.09                | 21.16   | 21.26   | 23.00   |
| 256QAM                     | 8          | 7       | 21.09     | 21.16                | 21.08   | 23.00   |         |
|                            | 15         | 0       | 21.33     | 21.42                | 21.42   | 23.00   |         |
|                            | 1          | 0       | 21.11     | 21.21                | 21.19   | 23.00   |         |
|                            | 1          | 7       | 21.43     | 21.33                | 21.32   | 23.00   |         |
|                            | 1          | 14      | 21.38     | 21.33                | 21.24   | 23.00   |         |
|                            | 8          | 0       | 20.05     | 20.11                | 20.08   | 22.00   |         |

|           |            | 8       | 4         | 20.27   | 20.35   | 20.35   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 8       | 7         | 20.23   | 20.14   | 20.23   | 22.00   |
|           |            | 15      | 0         | 20.42   | 20.36   | 20.40   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.11   | 18.16   | 18.10   | 20.00   |
|           |            | 1       | 7         | 18.01   | 18.04   | 18.14   | 20.00   |
|           |            | 1       | 14        | 18.45   | 18.47   | 18.42   | 20.00   |
|           |            | 8       | 0         | 18.22   | 18.23   | 18.15   | 20.00   |
|           |            | 8       | 4         | 18.55   | 18.49   | 18.59   | 20.00   |
|           |            | 8       | 7         | 18.44   | 18.39   | 18.46   | 20.00   |
|           |            | 15      | 0         | 18.43   | 18.43   | 18.44   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.33   | 23.35   | 23.37   | 25.00   |
|           |            | 1       | 13        | 23.28   | 23.23   | 23.19   | 25.00   |
|           |            | 1       | 24        | 23.26   | 23.35   | 23.32   | 25.00   |
|           |            | 12      | 0         | 22.39   | 22.33   | 22.36   | 24.00   |
|           |            | 12      | 6         | 22.38   | 22.38   | 22.44   | 24.00   |
|           |            | 12      | 13        | 22.23   | 22.33   | 22.28   | 24.00   |
|           | 16QAM      | 25      | 0         | 22.36   | 22.39   | 22.35   | 24.00   |
|           |            | 1       | 0         | 22.42   | 22.33   | 22.23   | 24.00   |
|           |            | 1       | 13        | 22.17   | 22.26   | 22.21   | 24.00   |
|           |            | 1       | 24        | 22.09   | 22.01   | 22.03   | 24.00   |
|           |            | 12      | 0         | 21.09   | 21.11   | 21.13   | 23.00   |
|           |            | 12      | 6         | 21.13   | 21.18   | 21.22   | 23.00   |
|           | 64QAM      | 12      | 13        | 21.28   | 21.21   | 21.16   | 23.00   |
|           |            | 25      | 0         | 21.25   | 21.34   | 21.26   | 23.00   |
|           |            | 1       | 0         | 21.21   | 21.22   | 21.30   | 23.00   |
|           |            | 1       | 13        | 21.24   | 21.27   | 21.33   | 23.00   |
|           |            | 1       | 24        | 21.25   | 21.24   | 21.20   | 23.00   |
|           |            | 12      | 0         | 20.22   | 20.15   | 20.19   | 22.00   |
|           | 256QAM     | 12      | 6         | 20.33   | 20.33   | 20.43   | 22.00   |
|           |            | 12      | 13        | 20.20   | 20.20   | 20.10   | 22.00   |
|           |            | 25      | 0         | 20.50   | 20.42   | 20.34   | 22.00   |
|           |            | 1       | 0         | 18.09   | 18.15   | 18.09   | 20.00   |
|           |            | 1       | 13        | 18.12   | 18.09   | 18.19   | 20.00   |
|           |            | 1       | 24        | 18.46   | 18.38   | 18.37   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.38   | 23.36   | 23.35   | 25.00   |
|           |            | 1       | 25        | 23.30   | 23.27   | 23.37   | 25.00   |
|           |            | 1       | 49        | 23.29   | 23.30   | 23.24   | 25.00   |
|           |            | 25      | 0         | 22.29   | 22.38   | 22.39   | 24.00   |
|           |            | 25      | 13        | 22.46   | 22.39   | 22.32   | 24.00   |
|           |            | 25      | 25        | 22.28   | 22.24   | 22.21   | 24.00   |
|           | 16QAM      | 50      | 0         | 22.40   | 22.30   | 22.37   | 24.00   |
|           |            | 1       | 0         | 22.20   | 22.29   | 22.34   | 24.00   |
|           |            | 1       | 25        | 22.31   | 22.36   | 22.33   | 24.00   |
|           |            | 1       | 49        | 22.01   | 22.08   | 22.03   | 24.00   |
|           |            | 25      | 0         | 21.27   | 21.20   | 21.16   | 23.00   |
|           |            | 25      | 13        | 21.28   | 21.20   | 21.18   | 23.00   |
|           | 64QAM      | 25      | 25        | 21.16   | 21.19   | 21.12   | 23.00   |
|           |            | 50      | 0         | 21.46   | 21.38   | 21.39   | 23.00   |
|           |            | 1       | 0         | 21.39   | 21.30   | 21.26   | 23.00   |
|           |            | 1       | 25        | 21.25   | 21.30   | 21.35   | 23.00   |
|           |            | 1       | 49        | 21.37   | 21.28   | 21.34   | 23.00   |
|           |            | 25      | 0         | 20.20   | 20.17   | 20.22   | 22.00   |
|           | 256QAM     | 25      | 13        | 20.21   | 20.25   | 20.35   | 22.00   |
|           |            | 25      | 25        | 20.26   | 20.23   | 20.30   | 22.00   |
|           |            | 50      | 0         | 20.31   | 20.37   | 20.28   | 22.00   |
|           |            | 1       | 0         | 18.33   | 18.25   | 18.17   | 20.00   |
|           |            | 1       | 25        | 18.23   | 18.17   | 18.24   | 20.00   |
|           |            | 1       | 49        | 18.40   | 18.38   | 18.48   | 20.00   |
|           |            | 25      | 0         | 18.26   | 18.27   | 18.28   | 20.00   |
|           |            | 25      | 13        | 18.47   | 18.39   | 18.33   | 20.00   |
|           |            | 25      | 25        | 18.18   | 18.21   | 18.23   | 20.00   |
|           |            | 50      | 0         | 18.37   | 18.41   | 18.46   | 20.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20025   | 20175   | 20325   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.29   | 23.36   | 23.31   | 25.00   |
|           |            | 1       | 38        | 23.33   | 23.27   | 23.28   | 25.00   |
|           |            | 1       | 74        | 23.28   | 23.34   | 23.29   | 25.00   |
|           |            | 36      | 0         | 22.28   | 22.28   | 22.33   | 24.00   |
|           |            | 36      | 18        | 22.26   | 22.30   | 22.28   | 24.00   |
|           |            | 36      | 39        | 22.30   | 22.20   | 22.16   | 24.00   |
|           | 16QAM      | 75      | 0         | 22.35   | 22.25   | 22.24   | 24.00   |
|           |            | 1       | 0         | 22.21   | 22.26   | 22.22   | 24.00   |
|           |            | 1       | 38        | 22.34   | 22.27   | 22.35   | 24.00   |
|           |            | 1       | 74        | 22.08   | 22.12   | 22.17   | 24.00   |
|           |            | 36      | 0         | 21.26   | 21.19   | 21.22   | 23.00   |
|           |            | 36      | 18        | 21.28   | 21.30   | 21.38   | 23.00   |
|           | 64QAM      | 36      | 39        | 21.19   | 21.26   | 21.16   | 23.00   |
|           |            | 75      | 0         | 21.26   | 21.29   | 21.35   | 23.00   |
|           |            | 1       | 0         | 21.27   | 21.21   | 21.11   | 23.00   |
|           |            | 1       | 38        | 21.24   | 21.23   | 21.18   | 23.00   |
|           |            | 1       | 74        | 21.43   | 21.33   | 21.29   | 23.00   |
|           |            | 36      | 0         | 20.13   | 20.20   | 20.11   | 22.00   |
|           | 256QAM     | 36      | 18        | 20.27   | 20.17   | 20.14   | 22.00   |
|           |            | 36      | 39        | 20.11   | 20.21   | 20.24   | 22.00   |
|           |            | 75      | 0         | 20.31   | 20.29   | 20.36   | 22.00   |
|           |            | 1       | 0         | 18.27   | 18.27   | 18.24   | 20.00   |
|           |            | 1       | 38        | 18.26   | 18.20   | 18.25   | 20.00   |
|           |            | 1       | 74        | 18.48   | 18.40   | 18.31   | 20.00   |
| 20MHz     | QPSK       | 36      | 0         | 18.21   | 18.24   | 18.20   | 20.00   |
|           |            | 36      | 18        | 18.23   | 18.32   | 18.25   | 20.00   |
|           |            | 36      | 39        | 18.16   | 18.24   | 18.21   | 20.00   |
|           |            | 75      | 0         | 18.34   | 18.31   | 18.30   | 20.00   |
|           | 16QAM      | 1       | 0         | /       | 20175   | /       | 25.00   |
|           |            | 1       | 50        | /       | 23.33   | /       | 25.00   |
|           |            | 1       | 99        | /       | 23.20   | /       | 25.00   |
|           |            | 50      | 0         | /       | 23.26   | /       | 25.00   |
|           |            | 50      | 25        | /       | 22.22   | /       | 24.00   |
|           |            | 50      | 50        | /       | 22.26   | /       | 24.00   |
|           | 64QAM      | 100     | 0         | /       | 22.19   | /       | 24.00   |
|           |            | 1       | 0         | /       | 22.26   | /       | 24.00   |
|           |            | 1       | 50        | /       | 22.21   | /       | 24.00   |
|           |            | 1       | 99        | /       | 22.27   | /       | 24.00   |
|           |            | 50      | 0         | /       | 22.22   | /       | 24.00   |
|           |            | 50      | 25        | /       | 21.23   | /       | 23.00   |
|           | 256QAM     | 50      | 50        | /       | 21.32   | /       | 23.00   |
|           |            | 100     | 0         | /       | 21.24   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.25   | /       | 23.00   |
|           |            | 1       | 50        | /       | 21.29   | /       | 23.00   |
|           |            | 1       | 99        | /       | 21.21   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.28   | /       | 23.00   |
| 20MHz     | QPSK       | 50      | 25        | /       | 20.26   | /       | 22.00   |
|           |            | 50      | 50        | /       | 20.22   | /       | 22.00   |
|           |            | 50      | 50        | /       | 20.21   | /       | 22.00   |
|           |            | 100     | 0         | /       | 20.27   | /       | 22.00   |
|           | 16QAM      | 1       | 0         | /       | 18.28   | /       | 20.00   |
|           |            | 1       | 50        | /       | 18.28   | /       | 20.00   |
|           |            | 1       | 99        | /       | 18.32   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.31   | /       | 20.00   |
|           |            | 50      | 25        | /       | 18.30   | /       | 20.00   |
|           |            | 50      | 50        | /       | 18.22   | /       | 20.00   |
|           | 64QAM      | 100     | 0         | /       | 18.32   | /       | 20.00   |
|           |            | 1       | 0         | /       | 18.28   | /       | 20.00   |
|           |            | 1       | 50        | /       | 18.28   | /       | 20.00   |
|           |            | 1       | 99        | /       | 18.32   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.31   | /       | 20.00   |
|           |            | 50      | 25        | /       | 18.30   | /       | 20.00   |
|           | 256QAM     | 50      | 50        | /       | 18.22   | /       | 20.00   |
|           |            | 100     | 0         | /       | 18.32   | /       | 20.00   |
|           |            | 1       | 0         | /       | 18.28   | /       | 20.00   |
|           |            | 1       | 50        | /       | 18.28   | /       | 20.00   |
|           |            | 1       | 99        | /       | 18.32   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.31   | /       | 20.00   |

| LTE Band 4 Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                              |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz                       | QPSK       | 1       | 0         | 23.16                | 23.14   | 23.17   | 24.50   |
|                              |            | 1       | 2         | 22.90                | 22.90   | 22.84   | 24.50   |
|                              |            | 1       | 5         | 22.62                | 22.62   | 22.71   | 24.50   |
|                              |            | 3       | 0         | 22.75                | 22.75   | 22.65   | 24.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 3       | 2         | 22.83   | 22.74   | 22.73   | 24.50   |
|           |            | 3       | 3         | 22.51   | 22.52   | 22.60   | 24.50   |
|           | 16QAM      | 6       | 0         | 22.17   | 22.22   | 22.13   | 24.00   |
|           |            | 1       | 0         | 22.48   | 22.52   | 22.57   | 24.00   |
|           |            | 1       | 2         | 22.24   | 22.17   | 22.22   | 24.00   |
|           |            | 1       | 5         | 22.23   | 22.18   | 22.11   | 24.00   |
|           |            | 3       | 0         | 22.05   | 22.04   | 22.03   | 24.00   |
|           |            | 3       | 2         | 22.39   | 22.30   | 22.24   | 24.00   |
|           |            | 3       | 3         | 22.08   | 22.04   | 22.14   | 24.00   |
|           |            | 6       | 0         | 21.14   | 21.22   | 21.24   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.20   | 21.28   | 21.38   | 23.00   |
|           |            | 1       | 2         | 21.10   | 21.05   | 21.01   | 23.00   |
|           |            | 1       | 5         | 21.28   | 21.38   | 21.40   | 23.00   |
|           |            | 3       | 0         | 21.23   | 21.26   | 21.32   | 23.00   |
|           |            | 3       | 2         | 21.08   | 21.08   | 21.17   | 23.00   |
|           |            | 3       | 3         | 21.29   | 21.24   | 21.34   | 23.00   |
|           | 256QAM     | 6       | 0         | 20.33   | 20.37   | 20.31   | 22.00   |
|           |            | 1       | 0         | 18.58   | 18.55   | 18.55   | 20.00   |
|           |            | 1       | 2         | 18.24   | 18.16   | 18.17   | 20.00   |
|           |            | 1       | 5         | 18.42   | 18.41   | 18.32   | 20.00   |
|           |            | 3       | 0         | 18.42   | 18.45   | 18.47   | 20.00   |
|           |            | 3       | 2         | 18.08   | 18.10   | 18.07   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19965   | 20175   | 20385   |         |
| 3MHz      | QPSK       | 1       | 0         | 23.07   | 23.06   | 23.08   | 24.50   |
|           |            | 1       | 7         | 22.96   | 22.88   | 22.85   | 24.50   |
|           |            | 1       | 14        | 22.69   | 22.64   | 22.65   | 24.50   |
|           |            | 8       | 0         | 22.30   | 22.33   | 22.24   | 24.00   |
|           |            | 8       | 4         | 22.30   | 22.28   | 22.20   | 24.00   |
|           |            | 8       | 7         | 22.05   | 22.04   | 22.00   | 24.00   |
|           | 16QAM      | 15      | 0         | 22.13   | 22.12   | 22.13   | 24.00   |
|           |            | 1       | 0         | 22.40   | 22.42   | 22.36   | 24.00   |
|           |            | 1       | 7         | 22.05   | 22.11   | 22.06   | 24.00   |
|           |            | 1       | 14        | 22.16   | 22.23   | 22.27   | 24.00   |
|           |            | 8       | 0         | 21.12   | 21.10   | 21.19   | 23.00   |
|           |            | 8       | 4         | 21.31   | 21.24   | 21.28   | 23.00   |
|           | 64QAM      | 8       | 7         | 21.05   | 21.06   | 21.05   | 23.00   |
|           |            | 15      | 0         | 21.22   | 21.14   | 21.07   | 23.00   |
|           |            | 1       | 0         | 21.16   | 21.18   | 21.26   | 23.00   |
|           |            | 1       | 7         | 21.18   | 21.11   | 21.21   | 23.00   |
|           |            | 1       | 14        | 21.33   | 21.28   | 21.25   | 23.00   |
|           |            | 8       | 0         | 20.35   | 20.27   | 20.28   | 22.00   |
|           | 256QAM     | 8       | 4         | 20.16   | 20.10   | 20.04   | 22.00   |
|           |            | 8       | 7         | 20.15   | 20.19   | 20.21   | 22.00   |
|           |            | 15      | 0         | 20.41   | 20.32   | 20.33   | 22.00   |
|           |            | 1       | 0         | 18.45   | 18.49   | 18.49   | 20.00   |
|           |            | 1       | 7         | 18.19   | 18.24   | 18.17   | 20.00   |
|           |            | 1       | 14        | 18.31   | 18.39   | 18.47   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 19975   | 20175   | 20375   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.04   | 23.00   | 22.95   | 24.50   |
|           |            | 1       | 13        | 22.77   | 22.83   | 22.90   | 24.50   |
|           |            | 1       | 24        | 22.50   | 22.60   | 22.53   | 24.50   |
|           |            | 12      | 0         | 22.37   | 22.36   | 22.28   | 24.00   |
|           |            | 12      | 6         | 22.21   | 22.20   | 22.26   | 24.00   |
|           |            | 12      | 13        | 22.15   | 22.09   | 22.10   | 24.00   |
|           | 16QAM      | 25      | 0         | 22.17   | 22.19   | 22.16   | 24.00   |
|           |            | 1       | 0         | 22.34   | 22.36   | 22.34   | 24.00   |
|           |            | 1       | 13        | 22.19   | 22.12   | 22.13   | 24.00   |
|           |            | 1       | 24        | 22.20   | 22.29   | 22.29   | 24.00   |
|           |            | 12      | 0         | 21.04   | 21.11   | 21.13   | 23.00   |
|           |            | 12      | 6         | 21.19   | 21.16   | 21.21   | 23.00   |
|           |            | 12      | 13        | 21.03   | 21.08   | 21.02   | 23.00   |
|           |            | 25      | 0         | 21.18   | 21.18   | 21.23   | 23.00   |

|           | 64QAM      | 1       | 0         | 21.26   | 21.23   | 21.19   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 13        | 21.07   | 21.08   | 21.15   | 23.00   |
|           |            | 1       | 24        | 21.19   | 21.21   | 21.17   | 23.00   |
|           |            | 12      | 0         | 20.19   | 20.21   | 20.22   | 22.00   |
|           |            | 12      | 6         | 20.28   | 20.18   | 20.18   | 22.00   |
|           |            | 12      | 13        | 20.08   | 20.18   | 20.23   | 22.00   |
|           |            | 25      | 0         | 20.25   | 20.23   | 20.18   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.47   | 18.39   | 18.45   | 20.00   |
|           |            | 1       | 13        | 18.37   | 18.30   | 18.30   | 20.00   |
|           |            | 1       | 24        | 18.41   | 18.43   | 18.48   | 20.00   |
|           |            | 12      | 0         | 18.28   | 18.30   | 18.25   | 20.00   |
|           |            | 12      | 6         | 18.22   | 18.29   | 18.31   | 20.00   |
|           |            | 12      | 13        | 18.37   | 18.30   | 18.37   | 20.00   |
|           |            | 25      | 0         | 18.18   | 18.24   | 18.23   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20000   | 20175   | 20350   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.93   | 22.92   | 22.89   | 24.50   |
|           |            | 1       | 25        | 22.74   | 22.78   | 22.81   | 24.50   |
|           |            | 1       | 49        | 22.61   | 22.58   | 22.62   | 24.50   |
|           |            | 25      | 0         | 22.36   | 22.30   | 22.34   | 24.00   |
|           |            | 25      | 13        | 22.21   | 22.18   | 22.11   | 24.00   |
|           |            | 25      | 25        | 22.15   | 22.10   | 22.01   | 24.00   |
|           | 16QAM      | 50      | 0         | 22.28   | 22.22   | 22.15   | 24.00   |
|           |            | 1       | 0         | 22.17   | 22.27   | 22.37   | 24.00   |
|           |            | 1       | 25        | 22.10   | 22.18   | 22.24   | 24.00   |
|           |            | 1       | 49        | 22.17   | 22.19   | 22.18   | 24.00   |
|           |            | 25      | 0         | 21.20   | 21.10   | 21.16   | 23.00   |
|           |            | 25      | 13        | 21.16   | 21.18   | 21.23   | 23.00   |
|           | 64QAM      | 25      | 25        | 21.08   | 21.04   | 21.05   | 23.00   |
|           |            | 50      | 0         | 21.31   | 21.26   | 21.22   | 23.00   |
|           |            | 1       | 0         | 21.13   | 21.20   | 21.11   | 23.00   |
|           |            | 1       | 25        | 21.25   | 21.15   | 21.11   | 23.00   |
|           |            | 1       | 49        | 21.20   | 21.30   | 21.34   | 23.00   |
|           |            | 25      | 0         | 20.23   | 20.23   | 20.14   | 22.00   |
|           | 256QAM     | 25      | 13        | 20.12   | 20.22   | 20.29   | 22.00   |
|           |            | 25      | 25        | 20.18   | 20.19   | 20.20   | 22.00   |
|           |            | 50      | 0         | 20.15   | 20.22   | 20.22   | 22.00   |
|           |            | 1       | 0         | 18.41   | 18.33   | 18.39   | 20.00   |
|           |            | 1       | 25        | 18.33   | 18.23   | 18.16   | 20.00   |
|           |            | 1       | 49        | 18.31   | 18.33   | 18.28   | 20.00   |
| 15MHz     | QPSK       | 25      | 0         | 18.30   | 18.29   | 18.39   | 20.00   |
|           |            | 25      | 13        | 18.16   | 18.20   | 18.27   | 20.00   |
|           |            | 25      | 25        | 18.34   | 18.31   | 18.41   | 20.00   |
|           |            | 50      | 0         | 18.29   | 18.19   | 18.18   | 20.00   |
|           | 16QAM      | 1       | 0         | 22.93   | 22.88   | 22.80   | 24.50   |
|           |            | 1       | 38        | 22.81   | 22.71   | 22.66   | 24.50   |
|           |            | 1       | 74        | 22.74   | 22.68   | 22.63   | 24.50   |
|           |            | 36      | 0         | 22.21   | 22.25   | 22.25   | 24.00   |
|           |            | 36      | 18        | 22.23   | 22.24   | 22.18   | 24.00   |
|           |            | 36      | 39        | 22.14   | 22.14   | 22.15   | 24.00   |
|           | 64QAM      | 75      | 0         | 22.18   | 22.23   | 22.16   | 24.00   |
|           |            | 1       | 0         | 22.17   | 22.21   | 22.21   | 24.00   |
|           |            | 1       | 38        | 22.15   | 22.18   | 22.15   | 24.00   |
|           |            | 1       | 74        | 22.07   | 22.16   | 22.15   | 24.00   |
|           |            | 36      | 0         | 21.18   | 21.17   | 21.14   | 23.00   |
|           |            | 36      | 18        | 21.34   | 21.24   | 21.34   | 23.00   |
|           | 256QAM     | 36      | 39        | 21.13   | 21.11   | 21.20   | 23.00   |
|           |            | 75      | 0         | 21.28   | 21.18   | 21.26   | 23.00   |
|           |            | 1       | 0         | 21.26   | 21.19   | 21.11   | 23.00   |
|           |            | 1       | 38        | 21.06   | 21.14   | 21.10   | 23.00   |
|           |            | 1       | 74        | 21.15   | 21.23   | 21.31   | 23.00   |
|           |            | 36      | 0         | 20.24   | 20.18   | 20.16   | 22.00   |
|           | QPSK       | 36      | 18        | 20.24   | 20.16   | 20.07   | 22.00   |
|           |            | 36      | 39        | 20.33   | 20.29   | 20.37   | 22.00   |
|           |            | 75      | 0         | 20.13   | 20.23   | 20.14   | 22.00   |
|           | 16QAM      | 1       | 0         | 18.36   | 18.28   | 18.20   | 20.00   |
|           |            | 1       | 38        | 18.38   | 18.32   | 18.42   | 20.00   |
|           |            | 1       | 74        | 18.31   | 18.32   | 18.40   | 20.00   |

|           |            | 36      | 0         | 18.27   | 18.27   | 18.29   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 18        | 18.36   | 18.28   | 18.26   | 20.00   |
|           |            | 36      | 39        | 18.27   | 18.34   | 18.24   | 20.00   |
|           |            | 75      | 0         | 18.29   | 18.25   | 18.33   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | QPSK       | 1       | 0         | /       | 20175   | /       | 24.50   |
|           |            | 1       | 50        | /       | 22.78   | /       | 24.50   |
|           |            | 1       | 99        | /       | 22.69   | /       | 24.50   |
|           |            | 50      | 0         | /       | 22.74   | /       | 24.50   |
|           |            | 50      | 25        | /       | 22.18   | /       | 24.00   |
|           |            | 50      | 50        | /       | 22.26   | /       | 24.00   |
|           |            | 100     | 0         | /       | 22.21   | /       | 24.00   |
|           | 16QAM      | 1       | 0         | /       | 22.23   | /       | 24.00   |
|           |            | 1       | 50        | /       | 22.22   | /       | 24.00   |
|           |            | 1       | 99        | /       | 22.26   | /       | 24.00   |
|           |            | 50      | 0         | /       | 22.17   | /       | 24.00   |
|           |            | 50      | 25        | /       | 21.22   | /       | 23.00   |
|           |            | 50      | 50        | /       | 21.32   | /       | 23.00   |
|           |            | 100     | 0         | /       | 21.21   | /       | 23.00   |
|           | 64QAM      | 1       | 0         | /       | 21.23   | /       | 23.00   |
|           |            | 1       | 50        | /       | 21.24   | /       | 23.00   |
|           |            | 1       | 99        | /       | 21.19   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.31   | /       | 23.00   |
|           |            | 50      | 25        | /       | 20.27   | /       | 22.00   |
|           |            | 50      | 50        | /       | 20.23   | /       | 22.00   |
|           |            | 100     | 0         | /       | 20.22   | /       | 22.00   |
|           | 256QAM     | 1       | 0         | /       | 20.28   | /       | 22.00   |
|           |            | 1       | 50        | /       | 18.30   | /       | 20.00   |
|           |            | 1       | 99        | /       | 18.27   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.29   | /       | 20.00   |
|           |            | 50      | 25        | /       | 18.31   | /       | 20.00   |
|           |            | 50      | 50        | /       | 18.30   | /       | 20.00   |
|           |            | 100     | 0         | /       | 18.25   | /       | 20.00   |
|           |            | 100     | 0         | /       | 18.34   | /       | 20.00   |

| LTE Band 5 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 1.4MHz                                       | QPSK       | 1       | 0         | 20407                | 20525   | 20643   | 25.00   |
|                                              |            | 1       | 2         | 23.63                | 23.55   | 23.49   | 25.00   |
|                                              |            | 1       | 5         | 23.34                | 23.36   | 23.39   | 25.00   |
|                                              |            | 3       | 0         | 23.77                | 23.73   | 23.78   | 25.00   |
|                                              |            | 3       | 2         | 23.57                | 23.52   | 23.50   | 25.00   |
|                                              |            | 3       | 3         | 23.65                | 23.59   | 23.53   | 25.00   |
|                                              |            | 6       | 0         | 23.54                | 23.44   | 23.42   | 25.00   |
|                                              | 16QAM      | 1       | 0         | 22.30                | 22.38   | 22.29   | 24.00   |
|                                              |            | 1       | 2         | 22.52                | 22.53   | 22.54   | 24.00   |
|                                              |            | 1       | 5         | 22.45                | 22.51   | 22.52   | 24.00   |
|                                              |            | 3       | 0         | 22.29                | 22.36   | 22.46   | 24.00   |
|                                              |            | 3       | 2         | 22.43                | 22.53   | 22.47   | 24.00   |
|                                              |            | 3       | 3         | 22.77                | 22.76   | 22.75   | 24.00   |
|                                              |            | 6       | 0         | 22.48                | 22.41   | 22.35   | 24.00   |
|                                              | 64QAM      | 1       | 0         | 21.52                | 21.47   | 21.43   | 23.00   |
|                                              |            | 1       | 2         | 21.46                | 21.43   | 21.52   | 23.00   |
|                                              |            | 1       | 5         | 21.49                | 21.59   | 21.55   | 23.00   |
|                                              |            | 3       | 0         | 21.48                | 21.53   | 21.61   | 23.00   |
|                                              |            | 3       | 2         | 21.51                | 21.44   | 21.41   | 23.00   |
|                                              |            | 3       | 3         | 21.33                | 21.25   | 21.32   | 23.00   |
|                                              |            | 6       | 0         | 21.45                | 21.41   | 21.33   | 23.00   |
|                                              | 256QAM     | 1       | 0         | 20.44                | 20.39   | 20.39   | 22.00   |
|                                              |            | 1       | 2         | 18.44                | 18.45   | 18.55   | 20.00   |
|                                              |            | 1       | 5         | 18.21                | 18.22   | 18.17   | 20.00   |
|                                              |            | 3       | 0         | 18.32                | 18.42   | 18.42   | 20.00   |
|                                              |            | 3       | 2         | 18.66                | 18.63   | 18.53   | 20.00   |
|                                              |            | 3       | 3         | 18.35                | 18.40   | 18.45   | 20.00   |
|                                              |            | 6       | 0         | 18.44                | 18.54   | 18.51   | 20.00   |
|                                              |            | 100     | 0         | 18.46                | 18.49   | 18.54   | 20.00   |

|       |        |    |    |       |       |       |       |
|-------|--------|----|----|-------|-------|-------|-------|
| 3MHz  | QPSK   | 1  | 0  | 23.52 | 23.54 | 23.58 | 25.00 |
|       |        | 1  | 7  | 23.30 | 23.38 | 23.33 | 25.00 |
|       |        | 1  | 14 | 23.65 | 23.64 | 23.60 | 25.00 |
|       |        | 8  | 0  | 22.47 | 22.47 | 22.56 | 24.00 |
|       |        | 8  | 4  | 22.64 | 22.56 | 22.64 | 24.00 |
|       |        | 8  | 7  | 22.38 | 22.46 | 22.54 | 24.00 |
|       | 16QAM  | 15 | 0  | 22.41 | 22.38 | 22.39 | 24.00 |
|       |        | 1  | 0  | 22.41 | 22.46 | 22.40 | 24.00 |
|       |        | 1  | 7  | 22.45 | 22.45 | 22.42 | 24.00 |
|       |        | 1  | 14 | 22.44 | 22.34 | 22.42 | 24.00 |
|       |        | 8  | 0  | 21.49 | 21.56 | 21.48 | 23.00 |
|       |        | 8  | 4  | 21.68 | 21.70 | 21.68 | 23.00 |
|       | 64QAM  | 8  | 7  | 21.27 | 21.36 | 21.41 | 23.00 |
|       |        | 15 | 0  | 21.35 | 21.45 | 21.50 | 23.00 |
|       |        | 1  | 0  | 21.50 | 21.44 | 21.38 | 23.00 |
|       |        | 1  | 7  | 21.52 | 21.49 | 21.51 | 23.00 |
|       |        | 1  | 14 | 21.53 | 21.49 | 21.45 | 23.00 |
|       |        | 8  | 0  | 20.27 | 20.35 | 20.29 | 22.00 |
| 5MHz  | QPSK   | 8  | 4  | 20.29 | 20.29 | 20.28 | 22.00 |
|       |        | 8  | 7  | 20.42 | 20.42 | 20.40 | 22.00 |
|       |        | 15 | 0  | 20.50 | 20.41 | 20.50 | 22.00 |
|       | 16QAM  | 1  | 0  | 18.39 | 18.45 | 18.41 | 20.00 |
|       |        | 1  | 7  | 18.33 | 18.29 | 18.29 | 20.00 |
|       |        | 1  | 14 | 18.42 | 18.42 | 18.43 | 20.00 |
|       | 64QAM  | 8  | 0  | 18.62 | 18.59 | 18.53 | 20.00 |
|       |        | 8  | 4  | 18.41 | 18.50 | 18.43 | 20.00 |
|       |        | 8  | 7  | 18.46 | 18.50 | 18.50 | 20.00 |
|       |        | 15 | 0  | 18.44 | 18.47 | 18.47 | 20.00 |
|       | 256QAM | 1  | 0  | 18.39 | 18.45 | 18.41 | 20.00 |
|       |        | 1  | 7  | 18.33 | 18.29 | 18.29 | 20.00 |
|       |        | 1  | 14 | 18.42 | 18.42 | 18.43 | 20.00 |
|       |        | 8  | 0  | 18.62 | 18.59 | 18.53 | 20.00 |
|       |        | 8  | 4  | 18.41 | 18.50 | 18.43 | 20.00 |
|       |        | 8  | 7  | 18.46 | 18.50 | 18.50 | 20.00 |
| 10MHz | QPSK   | 15 | 0  | 20.50 | 20.41 | 20.50 | 22.00 |
|       |        | 1  | 0  | 23.51 | 23.60 | 23.53 | 25.00 |
|       |        | 1  | 13 | 23.47 | 23.42 | 23.36 | 25.00 |
|       |        | 1  | 24 | 23.68 | 23.59 | 23.56 | 25.00 |
|       |        | 12 | 0  | 22.53 | 22.55 | 22.53 | 24.00 |
|       |        | 12 | 6  | 22.52 | 22.51 | 22.48 | 24.00 |
|       | 16QAM  | 12 | 13 | 22.37 | 22.37 | 22.38 | 24.00 |
|       |        | 25 | 0  | 22.54 | 22.45 | 22.35 | 24.00 |
|       |        | 1  | 0  | 22.51 | 22.49 | 22.39 | 24.00 |
|       |        | 1  | 13 | 22.52 | 22.44 | 22.50 | 24.00 |
|       |        | 1  | 24 | 22.35 | 22.42 | 22.34 | 24.00 |
|       |        | 12 | 0  | 21.55 | 21.47 | 21.52 | 23.00 |
|       | 64QAM  | 12 | 6  | 21.66 | 21.60 | 21.51 | 23.00 |
|       |        | 12 | 13 | 21.24 | 21.34 | 21.28 | 23.00 |
|       |        | 25 | 0  | 21.57 | 21.51 | 21.59 | 23.00 |
|       |        | 1  | 0  | 21.43 | 21.40 | 21.45 | 23.00 |
|       |        | 1  | 13 | 21.67 | 21.58 | 21.61 | 23.00 |
|       |        | 1  | 24 | 21.47 | 21.45 | 21.35 | 23.00 |
|       | 256QAM | 12 | 0  | 20.38 | 20.41 | 20.38 | 22.00 |
|       |        | 12 | 6  | 20.37 | 20.36 | 20.32 | 22.00 |
|       |        | 12 | 13 | 20.50 | 20.45 | 20.50 | 22.00 |
|       |        | 25 | 0  | 20.34 | 20.39 | 20.37 | 22.00 |
|       |        | 1  | 0  | 18.45 | 18.38 | 18.39 | 20.00 |
|       |        | 1  | 13 | 18.35 | 18.36 | 18.41 | 20.00 |
| 16MHz | QPSK   | 1  | 24 | 18.40 | 18.49 | 18.39 | 20.00 |
|       |        | 12 | 0  | 18.52 | 18.49 | 18.46 | 20.00 |
|       |        | 12 | 6  | 18.53 | 18.44 | 18.50 | 20.00 |
|       |        | 12 | 13 | 18.57 | 18.57 | 18.52 | 20.00 |
|       |        | 25 | 0  | 18.47 | 18.54 | 18.44 | 20.00 |
|       |        | 1  | 0  | 23.97 | 23.97 | 23.97 | 25.00 |
|       | 16QAM  | 1  | 25 | 23.84 | 23.84 | 23.84 | 25.00 |
|       |        | 1  | 49 | 23.89 | 23.89 | 23.89 | 25.00 |
|       |        | 25 | 0  | 22.85 | 22.85 | 22.85 | 24.00 |
|       |        | 25 | 13 | 22.85 | 22.85 | 22.85 | 24.00 |
|       |        | 25 | 25 | 22.84 | 22.84 | 22.84 | 24.00 |
|       |        | 50 | 0  | 22.87 | 22.87 | 22.87 | 24.00 |
|       | 64QAM  | 1  | 0  | 22.89 | 22.89 | 22.89 | 24.00 |
|       |        | 1  | 25 | 22.82 | 22.82 | 22.82 | 24.00 |
|       |        | 1  | 49 | 22.87 | 22.87 | 22.87 | 24.00 |
|       |        | 1  | 0  | 22.89 | 22.89 | 22.89 | 24.00 |
|       |        | 1  | 25 | 22.82 | 22.82 | 22.82 | 24.00 |
|       |        | 1  | 49 | 22.87 | 22.87 | 22.87 | 24.00 |

|  |        |    |    |   |       |   |       |
|--|--------|----|----|---|-------|---|-------|
|  |        | 25 | 0  | / | 21.88 | / | 23.00 |
|  |        | 25 | 13 | / | 21.90 | / | 23.00 |
|  |        | 25 | 25 | / | 21.83 | / | 23.00 |
|  |        | 50 | 0  | / | 21.87 | / | 23.00 |
|  | 64QAM  | 1  | 0  | / | 21.90 | / | 23.00 |
|  |        | 1  | 25 | / | 21.89 | / | 23.00 |
|  |        | 1  | 49 | / | 21.86 | / | 23.00 |
|  |        | 25 | 0  | / | 20.89 | / | 22.00 |
|  |        | 25 | 13 | / | 20.82 | / | 22.00 |
|  |        | 25 | 25 | / | 20.84 | / | 22.00 |
|  |        | 50 | 0  | / | 20.84 | / | 22.00 |
|  | 256QAM | 1  | 0  | / | 18.87 | / | 20.00 |
|  |        | 1  | 25 | / | 18.86 | / | 20.00 |
|  |        | 1  | 49 | / | 18.84 | / | 20.00 |
|  |        | 25 | 0  | / | 18.84 | / | 20.00 |
|  |        | 25 | 13 | / | 18.87 | / | 20.00 |
|  |        | 25 | 25 | / | 18.87 | / | 20.00 |
|  |        | 50 | 0  | / | 18.85 | / | 20.00 |

| LTE Band 5 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                    | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                              |            |         |           | 20407                | 20525   | 20643   |         |
| 1.4MHz                                       | QPSK       | 1       | 0         | 20.57                | 20.55   | 20.49   | 22.00   |
|                                              |            | 1       | 2         | 20.50                | 20.41   | 20.38   | 22.00   |
|                                              |            | 1       | 5         | 20.47                | 20.54   | 20.44   | 22.00   |
|                                              |            | 3       | 0         | 20.33                | 20.38   | 20.46   | 22.00   |
|                                              |            | 3       | 2         | 20.54                | 20.59   | 20.57   | 22.00   |
|                                              |            | 3       | 3         | 20.43                | 20.51   | 20.49   | 22.00   |
|                                              | 16QAM      | 6       | 0         | 20.27                | 20.34   | 20.36   | 22.00   |
|                                              |            | 1       | 0         | 20.40                | 20.37   | 20.32   | 22.00   |
|                                              |            | 1       | 2         | 20.39                | 20.39   | 20.29   | 22.00   |
|                                              |            | 1       | 5         | 20.34                | 20.36   | 20.45   | 22.00   |
|                                              |            | 3       | 0         | 20.57                | 20.54   | 20.55   | 22.00   |
|                                              |            | 3       | 2         | 20.81                | 20.72   | 20.70   | 22.00   |
|                                              | 64QAM      | 3       | 3         | 20.43                | 20.33   | 20.42   | 22.00   |
|                                              |            | 6       | 0         | 20.49                | 20.41   | 20.36   | 22.00   |
|                                              |            | 1       | 0         | 20.41                | 20.50   | 20.51   | 22.00   |
|                                              |            | 1       | 2         | 20.56                | 20.58   | 20.66   | 22.00   |
|                                              |            | 1       | 5         | 20.53                | 20.54   | 20.59   | 22.00   |
|                                              |            | 3       | 0         | 20.48                | 20.44   | 20.41   | 22.00   |
| 3MHz                                         | QPSK       | 3       | 2         | 20.36                | 20.30   | 20.35   | 22.00   |
|                                              |            | 3       | 3         | 20.50                | 20.42   | 20.50   | 22.00   |
|                                              |            | 6       | 0         | 20.51                | 20.42   | 20.44   | 22.00   |
|                                              | 256QAM     | 1       | 0         | 18.39                | 18.40   | 18.32   | 20.00   |
|                                              |            | 1       | 2         | 18.22                | 18.32   | 18.42   | 20.00   |
|                                              |            | 1       | 5         | 18.45                | 18.47   | 18.40   | 20.00   |
|                                              | 16QAM      | 3       | 0         | 18.67                | 18.59   | 18.62   | 20.00   |
|                                              |            | 3       | 2         | 18.45                | 18.41   | 18.34   | 20.00   |
|                                              |            | 3       | 3         | 18.47                | 18.51   | 18.48   | 20.00   |
|                                              |            | 6       | 0         | 18.41                | 18.48   | 18.46   | 20.00   |
|                                              | 64QAM      | 1       | 0         | 23.52                | 23.54   | 23.58   | 25.00   |
|                                              |            | 1       | 7         | 23.30                | 23.38   | 23.33   | 25.00   |
|                                              |            | 1       | 14        | 23.65                | 23.64   | 23.60   | 25.00   |
|                                              |            | 8       | 0         | 22.47                | 22.47   | 22.56   | 24.00   |
|                                              |            | 8       | 4         | 22.64                | 22.56   | 22.64   | 24.00   |
|                                              |            | 8       | 7         | 22.38                | 22.46   | 22.54   | 24.00   |
|                                              | QPSK       | 15      | 0         | 22.41                | 22.38   | 22.39   | 24.00   |
|                                              |            | 1       | 0         | 22.41                | 22.46   | 22.40   | 24.00   |
|                                              |            | 1       | 7         | 22.45                | 22.45   | 22.42   | 24.00   |
|                                              |            | 1       | 14        | 22.44                | 22.34   | 22.42   | 24.00   |
|                                              |            | 8       | 0         | 21.49                | 21.56   | 21.48   | 23.00   |
|                                              |            | 8       | 4         | 21.68                | 21.70   | 21.68   | 23.00   |
|                                              | 16QAM      | 8       | 7         | 21.27                | 21.36   | 21.41   | 23.00   |
|                                              |            | 15      | 0         | 21.35                | 21.45   | 21.50   | 23.00   |
|                                              | 64QAM      | 1       | 0         | 21.50                | 21.44   | 21.38   | 23.00   |
|                                              |            | 1       | 7         | 21.52                | 21.49   | 21.51   | 23.00   |

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|  |  |    |    |   |       |   |       |
|--|--|----|----|---|-------|---|-------|
|  |  | 25 | 25 | / | 18.87 | / | 20.00 |
|  |  | 50 | 0  | / | 18.85 | / | 20.00 |

| LTE Band 7 full power/Head |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                       | QPSK       | 1       | 0         | 22.12                | 22.27   | 22.15   | 23.50   |
|                            |            | 1       | 13        | 22.06                | 21.88   | 22.06   | 23.50   |
|                            |            | 1       | 24        | 22.16                | 22.10   | 22.12   | 23.50   |
|                            |            | 12      | 0         | 21.18                | 20.91   | 21.12   | 22.50   |
|                            |            | 12      | 6         | 20.97                | 21.03   | 20.92   | 22.50   |
|                            |            | 12      | 13        | 21.17                | 21.15   | 21.07   | 22.50   |
|                            |            | 25      | 0         | 20.97                | 21.09   | 20.96   | 22.50   |
|                            | 16QAM      | 1       | 0         | 20.89                | 21.16   | 20.95   | 22.50   |
|                            |            | 1       | 13        | 21.03                | 21.20   | 21.09   | 22.50   |
|                            |            | 1       | 24        | 21.12                | 21.03   | 21.24   | 22.50   |
|                            |            | 12      | 0         | 20.08                | 20.31   | 20.11   | 21.50   |
|                            |            | 12      | 6         | 19.93                | 20.14   | 20.16   | 21.50   |
|                            |            | 12      | 13        | 20.02                | 20.24   | 19.95   | 21.50   |
|                            |            | 25      | 0         | 20.18                | 20.20   | 20.08   | 21.50   |
|                            | 64QAM      | 1       | 0         | 19.92                | 20.20   | 20.01   | 21.50   |
|                            |            | 1       | 13        | 20.05                | 20.06   | 19.99   | 21.50   |
|                            |            | 1       | 24        | 19.90                | 20.07   | 19.91   | 21.50   |
|                            |            | 12      | 0         | 19.13                | 19.05   | 18.99   | 20.50   |
|                            |            | 12      | 6         | 19.21                | 18.95   | 18.95   | 20.50   |
|                            |            | 12      | 13        | 18.93                | 19.18   | 19.05   | 20.50   |
|                            |            | 25      | 0         | 19.06                | 19.11   | 18.97   | 20.50   |
|                            | 256QAM     | 1       | 0         | 17.02                | 17.08   | 17.20   | 18.50   |
|                            |            | 1       | 13        | 16.93                | 17.16   | 17.09   | 18.50   |
|                            |            | 1       | 24        | 17.07                | 17.00   | 17.05   | 18.50   |
|                            |            | 12      | 0         | 16.98                | 17.11   | 17.26   | 18.50   |
|                            |            | 12      | 6         | 17.02                | 17.14   | 16.84   | 18.50   |
|                            |            | 12      | 13        | 17.02                | 16.96   | 16.96   | 18.50   |
|                            |            | 25      | 0         | 17.23                | 17.15   | 17.05   | 18.50   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 20800                | 21100   | 21400   |         |
| 10MHz                      | QPSK       | 1       | 0         | 22.10                | 22.18   | 22.08   | 23.50   |
|                            |            | 1       | 25        | 22.12                | 21.96   | 22.11   | 23.50   |
|                            |            | 1       | 49        | 22.07                | 22.12   | 22.08   | 23.50   |
|                            |            | 25      | 0         | 21.08                | 20.96   | 21.09   | 22.50   |
|                            |            | 25      | 13        | 21.05                | 21.04   | 20.95   | 22.50   |
|                            |            | 25      | 25        | 21.15                | 21.16   | 20.98   | 22.50   |
|                            |            | 50      | 0         | 21.00                | 21.14   | 21.00   | 22.50   |
|                            | 16QAM      | 1       | 0         | 20.99                | 21.19   | 20.98   | 22.50   |
|                            |            | 1       | 25        | 21.10                | 21.10   | 21.02   | 22.50   |
|                            |            | 1       | 49        | 21.19                | 21.07   | 21.20   | 22.50   |
|                            |            | 25      | 0         | 20.04                | 20.26   | 20.08   | 21.50   |
|                            |            | 25      | 13        | 20.01                | 20.22   | 20.11   | 21.50   |
|                            |            | 25      | 25        | 20.07                | 20.15   | 19.89   | 21.50   |
|                            |            | 50      | 0         | 20.25                | 20.13   | 20.06   | 21.50   |
|                            | 64QAM      | 1       | 0         | 19.94                | 20.16   | 20.02   | 21.50   |
|                            |            | 1       | 25        | 20.10                | 20.12   | 19.98   | 21.50   |
|                            |            | 1       | 49        | 19.99                | 20.12   | 19.95   | 21.50   |
|                            |            | 25      | 0         | 19.14                | 19.07   | 19.00   | 20.50   |
|                            |            | 25      | 13        | 19.11                | 18.97   | 19.05   | 20.50   |
|                            |            | 25      | 25        | 18.98                | 19.11   | 19.05   | 20.50   |
|                            |            | 50      | 0         | 18.99                | 19.02   | 19.06   | 20.50   |
|                            | 256QAM     | 1       | 0         | 16.93                | 17.18   | 17.22   | 18.50   |
|                            |            | 1       | 25        | 16.99                | 17.17   | 16.99   | 18.50   |
|                            |            | 1       | 49        | 17.02                | 17.06   | 17.04   | 18.50   |
|                            |            | 25      | 0         | 17.07                | 17.17   | 17.20   | 18.50   |
|                            |            | 25      | 13        | 17.11                | 17.18   | 16.84   | 18.50   |
|                            |            | 25      | 25        | 16.96                | 17.00   | 16.99   | 18.50   |
|                            |            | 50      | 0         | 17.13                | 17.09   | 17.02   | 18.50   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |            |         |           | 20825                | 21100   | 21375   |         |
| 15MHz                      | QPSK       | 1       | 0         | 22.00                | 22.18   | 22.11   | 23.50   |
|                            |            | 1       | 38        | 22.05                | 22.01   | 22.03   | 23.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 74        | 22.08   | 22.10   | 22.15   | 23.50   |
|           |            | 36      | 0         | 21.13   | 21.03   | 21.03   | 22.50   |
|           |            | 36      | 18        | 21.04   | 21.12   | 21.04   | 22.50   |
|           |            | 36      | 39        | 21.17   | 21.06   | 21.02   | 22.50   |
|           |            | 75      | 0         | 21.04   | 21.05   | 21.03   | 22.50   |
|           | 16QAM      | 1       | 0         | 21.08   | 21.10   | 20.98   | 22.50   |
|           |            | 1       | 38        | 21.05   | 21.01   | 21.03   | 22.50   |
|           |            | 1       | 74        | 21.16   | 21.10   | 21.13   | 22.50   |
|           |            | 36      | 0         | 20.13   | 20.17   | 20.12   | 21.50   |
|           |            | 36      | 18        | 20.09   | 20.13   | 20.10   | 21.50   |
|           | 64QAM      | 36      | 39        | 20.03   | 20.08   | 19.99   | 21.50   |
|           |            | 75      | 0         | 20.16   | 20.15   | 20.09   | 21.50   |
|           |            | 1       | 0         | 20.00   | 20.16   | 20.12   | 21.50   |
|           |            | 1       | 38        | 20.14   | 20.17   | 20.01   | 21.50   |
|           |            | 1       | 74        | 19.99   | 20.14   | 19.96   | 21.50   |
|           | 256QAM     | 36      | 0         | 19.16   | 19.08   | 19.07   | 20.50   |
|           |            | 36      | 18        | 19.16   | 19.03   | 19.00   | 20.50   |
|           |            | 36      | 39        | 18.95   | 19.13   | 19.11   | 20.50   |
|           |            | 75      | 0         | 19.00   | 18.98   | 19.11   | 20.50   |
|           |            | 1       | 0         | 17.02   | 17.09   | 17.14   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.08   | 22.17   | 22.03   | 23.50   |
|           |            | 1       | 50        | 22.06   | 22.03   | 22.09   | 23.50   |
|           |            | 1       | 99        | 22.05   | 22.05   | 22.09   | 23.50   |
|           |            | 50      | 0         | 21.08   | 21.04   | 21.08   | 22.50   |
|           |            | 50      | 25        | 21.08   | 21.07   | 21.07   | 22.50   |
|           |            | 50      | 50        | 21.07   | 21.03   | 21.09   | 22.50   |
|           | 16QAM      | 100     | 0         | 21.04   | 21.03   | 21.08   | 22.50   |
|           |            | 1       | 0         | 21.03   | 21.10   | 21.03   | 22.50   |
|           |            | 1       | 50        | 21.09   | 21.04   | 21.03   | 22.50   |
|           |            | 1       | 99        | 21.07   | 21.05   | 21.05   | 22.50   |
|           |            | 50      | 0         | 20.05   | 20.08   | 20.06   | 21.50   |
|           |            | 50      | 25        | 20.03   | 20.07   | 20.07   | 21.50   |
|           | 64QAM      | 50      | 50        | 20.04   | 20.10   | 20.04   | 21.50   |
|           |            | 100     | 0         | 20.09   | 20.06   | 20.06   | 21.50   |
|           |            | 1       | 0         | 20.04   | 20.06   | 20.08   | 21.50   |
|           |            | 1       | 50        | 20.08   | 20.09   | 20.07   | 21.50   |
|           |            | 1       | 99        | 20.06   | 20.09   | 20.02   | 21.50   |
|           |            | 50      | 0         | 19.08   | 19.06   | 19.06   | 20.50   |
|           | 256QAM     | 50      | 25        | 19.10   | 19.05   | 19.02   | 20.50   |
|           |            | 50      | 50        | 19.03   | 19.03   | 19.05   | 20.50   |
|           |            | 100     | 0         | 19.05   | 19.03   | 19.06   | 20.50   |
|           |            | 1       | 0         | 17.09   | 17.04   | 17.09   | 18.50   |
|           |            | 1       | 50        | 17.04   | 17.05   | 17.04   | 18.50   |
|           |            | 1       | 99        | 17.09   | 17.08   | 17.03   | 18.50   |
| 5MHz      | QPSK       | 50      | 0         | 17.05   | 17.05   | 17.07   | 18.50   |
|           |            | 50      | 25        | 17.09   | 17.08   | 17.03   | 18.50   |
|           |            | 50      | 50        | 17.03   | 17.10   | 17.07   | 18.50   |
|           |            | 100     | 0         | 17.02   | 17.04   | 17.08   | 18.50   |
|           | 16QAM      | 1       | 0         | 21.08   | 20.78   | 21.07   | 22.50   |

| LTE Band 7 Body worn |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                 | QPSK       | 1       | 0         | 21.20                | 20.97   | 20.96   | 22.50   |
|                      |            | 1       | 13        | 21.14                | 20.99   | 21.10   | 22.50   |
|                      |            | 1       | 24        | 21.16                | 20.99   | 21.07   | 22.50   |
|                      |            | 12      | 0         | 21.05                | 21.09   | 21.11   | 22.50   |
|                      |            | 12      | 6         | 20.97                | 21.02   | 21.07   | 22.50   |
|                      |            | 12      | 13        | 21.03                | 21.04   | 21.07   | 22.50   |
|                      | 16QAM      | 25      | 0         | 21.13                | 21.19   | 20.91   | 22.50   |
|                      |            | 1       | 0         | 21.08                | 20.78   | 21.07   | 22.50   |

|        |       |    |       |       |       |       |       |
|--------|-------|----|-------|-------|-------|-------|-------|
|        |       | 1  | 13    | 21.11 | 20.89 | 21.09 | 22.50 |
|        |       | 1  | 24    | 21.13 | 21.14 | 21.03 | 22.50 |
|        |       | 12 | 0     | 20.20 | 19.75 | 20.05 | 21.50 |
|        |       | 12 | 6     | 20.07 | 20.16 | 19.85 | 21.50 |
|        |       | 12 | 13    | 19.93 | 20.02 | 20.26 | 21.50 |
|        |       | 25 | 0     | 20.07 | 20.15 | 20.07 | 21.50 |
|        |       | 1  | 0     | 20.00 | 20.11 | 20.06 | 21.50 |
|        |       | 1  | 13    | 20.18 | 20.09 | 20.05 | 21.50 |
|        |       | 1  | 24    | 20.03 | 20.25 | 19.99 | 21.50 |
|        |       | 12 | 0     | 19.17 | 18.88 | 19.20 | 20.50 |
|        |       | 12 | 6     | 18.98 | 18.96 | 19.02 | 20.50 |
|        |       | 12 | 13    | 18.80 | 19.12 | 18.85 | 20.50 |
|        | 25    | 0  | 19.02 | 19.01 | 18.95 | 20.50 |       |
|        | 64QAM | 1  | 0     | 17.04 | 17.21 | 17.18 | 18.50 |
|        |       | 1  | 13    | 17.06 | 17.11 | 17.08 | 18.50 |
|        |       | 1  | 24    | 17.07 | 17.01 | 17.03 | 18.50 |
|        |       | 12 | 0     | 16.92 | 17.03 | 17.12 | 18.50 |
|        |       | 12 | 6     | 17.32 | 17.05 | 17.06 | 18.50 |
| 12     |       | 13 | 17.11 | 17.30 | 16.90 | 18.50 |       |
| 256QAM | 25    | 0  | 16.97 | 17.23 | 16.82 | 18.50 |       |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20800   | 21100   | 21400   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.16   | 21.05   | 20.97   | 22.50   |
|           |            | 1       | 25        | 21.08   | 21.09   | 21.10   | 22.50   |
|           |            | 1       | 49        | 21.11   | 20.91   | 21.09   | 22.50   |
|           |            | 25      | 0         | 21.02   | 21.03   | 21.09   | 22.50   |
|           |            | 25      | 13        | 21.07   | 21.09   | 21.15   | 22.50   |
|           |            | 25      | 25        | 21.05   | 21.01   | 21.06   | 22.50   |
|           | 16QAM      | 50      | 0         | 21.06   | 21.14   | 20.99   | 22.50   |
|           |            | 1       | 0         | 20.99   | 20.87   | 21.00   | 22.50   |
|           |            | 1       | 25        | 21.12   | 20.97   | 21.07   | 22.50   |
|           |            | 1       | 49        | 21.12   | 21.05   | 21.07   | 22.50   |
|           |            | 25      | 0         | 20.17   | 19.83   | 20.13   | 21.50   |
|           |            | 25      | 13        | 19.98   | 20.16   | 19.93   | 21.50   |
|           | 64QAM      | 25      | 25        | 19.86   | 19.96   | 20.18   | 21.50   |
|           |            | 50      | 0         | 20.01   | 20.09   | 20.03   | 21.50   |
|           |            | 1       | 0         | 20.07   | 20.09   | 20.05   | 21.50   |
|           |            | 1       | 25        | 20.09   | 20.12   | 20.11   | 21.50   |
|           |            | 1       | 49        | 19.96   | 20.25   | 19.98   | 21.50   |
|           |            | 25      | 0         | 19.11   | 18.96   | 19.22   | 20.50   |
|           | 256QAM     | 25      | 13        | 18.98   | 18.92   | 19.01   | 20.50   |
|           |            | 25      | 25        | 18.87   | 19.02   | 18.90   | 20.50   |
|           |            | 50      | 0         | 18.92   | 18.94   | 19.04   | 20.50   |
|           |            | 1       | 0         | 17.12   | 17.14   | 17.22   | 18.50   |
|           |            | 1       | 25        | 17.11   | 17.01   | 17.17   | 18.50   |
|           |            | 1       | 49        | 17.08   | 16.94   | 17.06   | 18.50   |
| 15MHz     | QPSK       | 25      | 0         | 16.98   | 17.03   | 17.08   | 18.50   |
|           |            | 25      | 13        | 17.27   | 17.12   | 16.98   | 18.50   |
|           |            | 25      | 25        | 17.10   | 17.22   | 16.98   | 18.50   |
|           |            | 50      | 0         | 16.98   | 17.16   | 16.92   | 18.50   |
|           |            | 1       | 0         | 21.10   | 21.08   | 21.05   | 22.50   |
|           |            | 1       | 38        | 21.17   | 21.11   | 21.15   | 22.50   |
|           | 16QAM      | 1       | 74        | 21.05   | 21.01   | 21.04   | 22.50   |
|           |            | 36      | 0         | 20.98   | 21.08   | 21.04   | 22.50   |
|           |            | 36      | 18        | 21.12   | 21.03   | 21.08   | 22.50   |
|           |            | 36      | 39        | 20.97   | 20.97   | 20.99   | 22.50   |
|           |            | 75      | 0         | 21.09   | 21.06   | 21.08   | 22.50   |
|           |            | 1       | 0         | 21.00   | 20.92   | 21.09   | 22.50   |
|           | 64QAM      | 1       | 38        | 21.12   | 21.00   | 21.11   | 22.50   |
|           |            | 1       | 74        | 21.12   | 21.02   | 21.13   | 22.50   |
|           |            | 36      | 0         | 20.08   | 19.93   | 20.12   | 21.50   |
|           |            | 36      | 18        | 20.00   | 20.15   | 20.00   | 21.50   |
|           |            | 36      | 39        | 19.95   | 19.97   | 20.08   | 21.50   |
|           |            | 75      | 0         | 20.09   | 20.13   | 20.01   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.05   | 20.10   | 20.01   | 21.50   |
|           |            | 1       | 38        | 19.99   | 20.16   | 20.13   | 21.50   |
|           |            | 1       | 74        | 20.01   | 20.17   | 19.96   | 21.50   |
|           |            | 36      | 0         | 19.04   | 19.01   | 19.17   | 20.50   |

|           | 256QAM     | 36      | 18        | 19.08   | 18.93   | 18.99   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 39        | 18.94   | 19.08   | 18.97   | 20.50   |
|           |            | 75      | 0         | 18.93   | 18.94   | 18.95   | 20.50   |
|           |            | 1       | 0         | 17.15   | 17.13   | 17.16   | 18.50   |
|           |            | 1       | 38        | 17.07   | 17.06   | 17.14   | 18.50   |
|           |            | 1       | 74        | 17.10   | 17.02   | 17.01   | 18.50   |
|           |            | 36      | 0         | 17.07   | 17.06   | 17.04   | 18.50   |
|           |            | 36      | 18        | 17.19   | 17.16   | 16.89   | 18.50   |
|           |            | 36      | 39        | 17.08   | 17.17   | 17.05   | 18.50   |
|           |            | 75      | 0         | 17.08   | 17.10   | 16.97   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 21.30   | 21.35   | 21.29   | 22.50   |
|           |            | 1       | 50        | 21.07   | 21.03   | 21.09   | 22.50   |
|           |            | 1       | 99        | 21.05   | 21.01   | 21.09   | 22.50   |
|           |            | 50      | 0         | 21.19   | 21.25   | 21.20   | 22.50   |
|           |            | 50      | 25        | 21.05   | 21.04   | 21.06   | 22.50   |
|           |            | 50      | 50        | 21.07   | 21.01   | 21.05   | 22.50   |
|           | 16QAM      | 100     | 0         | 21.07   | 21.00   | 21.06   | 22.50   |
|           |            | 1       | 0         | 21.04   | 21.01   | 20.99   | 22.50   |
|           |            | 1       | 50        | 21.05   | 21.06   | 21.01   | 22.50   |
|           |            | 1       | 99        | 21.04   | 21.06   | 21.04   | 22.50   |
|           |            | 50      | 0         | 20.01   | 20.03   | 20.02   | 21.50   |
|           |            | 50      | 25        | 20.00   | 20.07   | 20.08   | 21.50   |
|           | 64QAM      | 50      | 50        | 20.04   | 20.06   | 20.01   | 21.50   |
|           |            | 100     | 0         | 20.11   | 20.08   | 20.07   | 21.50   |
|           |            | 1       | 0         | 20.06   | 20.04   | 20.07   | 21.50   |
|           |            | 1       | 50        | 20.09   | 20.12   | 20.08   | 21.50   |
|           |            | 1       | 99        | 20.02   | 20.09   | 20.04   | 21.50   |
|           |            | 50      | 0         | 19.04   | 19.05   | 19.09   | 20.50   |
|           | 256QAM     | 50      | 25        | 19.10   | 19.03   | 19.00   | 20.50   |
|           |            | 50      | 50        | 19.02   | 19.02   | 19.00   | 20.50   |
|           |            | 100     | 0         | 19.01   | 19.01   | 19.04   | 20.50   |
|           |            | 1       | 0         | 17.09   | 17.04   | 17.11   | 18.50   |
|           |            | 1       | 50        | 17.01   | 17.01   | 17.04   | 18.50   |
|           |            | 1       | 99        | 17.08   | 17.04   | 17.03   | 18.50   |
|           | 256QAM     | 50      | 0         | 17.06   | 17.07   | 17.05   | 18.50   |
|           |            | 50      | 25        | 17.09   | 17.10   | 16.98   | 18.50   |
|           |            | 50      | 50        | 16.99   | 17.12   | 17.10   | 18.50   |
|           |            | 100     | 0         | 16.98   | 17.03   | 17.07   | 18.50   |

| LTE Band 7 Body worn |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                 | QPSK       | 1       | 0         | 21.20                | 20.97   | 20.96   | 22.50   |
|                      |            | 1       | 13        | 21.14                | 20.99   | 21.10   | 22.50   |
|                      |            | 1       | 24        | 21.16                | 20.99   | 21.07   | 22.50   |
|                      |            | 12      | 0         | 21.05                | 21.09   | 21.11   | 22.50   |
|                      |            | 12      | 6         | 20.97                | 21.02   | 21.07   | 22.50   |
|                      |            | 12      | 13        | 21.03                | 21.04   | 21.07   | 22.50   |
|                      | 16QAM      | 25      | 0         | 21.13                | 21.19   | 20.91   | 22.50   |
|                      |            | 1       | 0         | 21.08                | 20.78   | 21.07   | 22.50   |
|                      |            | 1       | 13        | 21.11                | 20.89   | 21.09   | 22.50   |
|                      |            | 1       | 24        | 21.13                | 21.14   | 21.03   | 22.50   |
|                      |            | 12      | 0         | 20.20                | 19.75   | 20.05   | 21.50   |
|                      |            | 12      | 6         | 20.07                | 20.16   | 19.85   | 21.50   |
|                      | 64QAM      | 12      | 13        | 19.93                | 20.02   | 20.26   | 21.50   |
|                      |            | 25      | 0         | 20.07                | 20.15   | 20.07   | 21.50   |
|                      |            | 1       | 0         | 20.00                | 20.11   | 20.06   | 21.50   |
|                      |            | 1       | 13        | 20.18                | 20.09   | 20.05   | 21.50   |
|                      |            | 1       | 24        | 20.03                | 20.25   | 19.99   | 21.50   |
|                      |            | 12      | 0         | 19.17                | 18.88   | 19.20   | 20.50   |
|                      | 256QAM     | 12      | 6         | 18.98                | 18.96   | 19.02   | 20.50   |
|                      |            | 12      | 13        | 18.80                | 19.12   | 18.85   | 20.50   |
|                      |            | 25      | 0         | 19.02                | 19.01   | 18.95   | 20.50   |
|                      |            | 1       | 0         | 17.04                | 17.21   | 17.18   | 18.50   |
|                      |            | 1       | 13        | 17.06                | 17.11   | 17.08   | 18.50   |
|                      |            | 1       | 24        | 17.07                | 17.01   | 17.03   | 18.50   |

|           |            | 12      | 0         | 16.92            | 17.03            | 17.12            | 18.50   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 12      | 6         | 17.32            | 17.05            | 17.06            | 18.50   |
|           |            | 12      | 13        | 17.11            | 17.30            | 16.90            | 18.50   |
|           |            | 25      | 0         | 16.97            | 17.23            | 16.82            | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20800 | Channel<br>21100 | Channel<br>21400 | Tune up |
| 10MHz     | QPSK       | 1       | 0         | 21.16            | 21.05            | 20.97            | 22.50   |
|           |            | 1       | 25        | 21.08            | 21.09            | 21.10            | 22.50   |
|           |            | 1       | 49        | 21.11            | 20.91            | 21.09            | 22.50   |
|           |            | 25      | 0         | 21.02            | 21.03            | 21.09            | 22.50   |
|           |            | 25      | 13        | 21.07            | 21.09            | 21.15            | 22.50   |
|           |            | 25      | 25        | 21.05            | 21.01            | 21.06            | 22.50   |
|           |            | 50      | 0         | 21.06            | 21.14            | 20.99            | 22.50   |
|           | 16QAM      | 1       | 0         | 20.99            | 20.87            | 21.00            | 22.50   |
|           |            | 1       | 25        | 21.12            | 20.97            | 21.07            | 22.50   |
|           |            | 1       | 49        | 21.12            | 21.05            | 21.07            | 22.50   |
|           |            | 25      | 0         | 20.17            | 19.83            | 20.13            | 21.50   |
|           |            | 25      | 13        | 19.98            | 20.16            | 19.93            | 21.50   |
|           |            | 25      | 25        | 19.86            | 19.96            | 20.18            | 21.50   |
|           |            | 50      | 0         | 20.01            | 20.09            | 20.03            | 21.50   |
|           | 64QAM      | 1       | 0         | 20.07            | 20.09            | 20.05            | 21.50   |
|           |            | 1       | 25        | 20.09            | 20.12            | 20.11            | 21.50   |
|           |            | 1       | 49        | 19.96            | 20.25            | 19.98            | 21.50   |
|           |            | 25      | 0         | 19.11            | 18.96            | 19.22            | 20.50   |
|           |            | 25      | 13        | 18.98            | 18.92            | 19.01            | 20.50   |
|           |            | 25      | 25        | 18.87            | 19.02            | 18.90            | 20.50   |
|           |            | 50      | 0         | 18.92            | 18.94            | 19.04            | 20.50   |
|           | 256QAM     | 1       | 0         | 17.12            | 17.14            | 17.22            | 18.50   |
|           |            | 1       | 25        | 17.11            | 17.01            | 17.17            | 18.50   |
|           |            | 1       | 49        | 17.08            | 16.94            | 17.06            | 18.50   |
|           |            | 25      | 0         | 16.98            | 17.03            | 17.08            | 18.50   |
|           |            | 25      | 13        | 17.27            | 17.12            | 16.98            | 18.50   |
|           |            | 25      | 25        | 17.10            | 17.22            | 16.98            | 18.50   |
|           |            | 50      | 0         | 16.98            | 17.16            | 16.92            | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20825 | Channel<br>21100 | Channel<br>21375 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 21.10            | 21.08            | 21.05            | 22.50   |
|           |            | 1       | 38        | 21.17            | 21.11            | 21.15            | 22.50   |
|           |            | 1       | 74        | 21.05            | 21.01            | 21.04            | 22.50   |
|           |            | 36      | 0         | 20.98            | 21.08            | 21.04            | 22.50   |
|           |            | 36      | 18        | 21.12            | 21.03            | 21.08            | 22.50   |
|           |            | 36      | 39        | 20.97            | 20.97            | 20.99            | 22.50   |
|           |            | 75      | 0         | 21.09            | 21.06            | 21.08            | 22.50   |
|           | 16QAM      | 1       | 0         | 21.00            | 20.92            | 21.09            | 22.50   |
|           |            | 1       | 38        | 21.12            | 21.00            | 21.11            | 22.50   |
|           |            | 1       | 74        | 21.12            | 21.02            | 21.13            | 22.50   |
|           |            | 36      | 0         | 20.08            | 19.93            | 20.12            | 21.50   |
|           |            | 36      | 18        | 20.00            | 20.15            | 20.00            | 21.50   |
|           |            | 36      | 39        | 19.95            | 19.97            | 20.08            | 21.50   |
|           |            | 75      | 0         | 20.09            | 20.13            | 20.01            | 21.50   |
|           | 64QAM      | 1       | 0         | 20.05            | 20.10            | 20.01            | 21.50   |
|           |            | 1       | 38        | 19.99            | 20.16            | 20.13            | 21.50   |
|           |            | 1       | 74        | 20.01            | 20.17            | 19.96            | 21.50   |
|           |            | 36      | 0         | 19.04            | 19.01            | 19.17            | 20.50   |
|           |            | 36      | 18        | 19.08            | 18.93            | 18.99            | 20.50   |
|           |            | 36      | 39        | 18.94            | 19.08            | 18.97            | 20.50   |
|           |            | 75      | 0         | 18.93            | 18.94            | 18.95            | 20.50   |
|           | 256QAM     | 1       | 0         | 17.15            | 17.13            | 17.16            | 18.50   |
|           |            | 1       | 38        | 17.07            | 17.06            | 17.14            | 18.50   |
|           |            | 1       | 74        | 17.10            | 17.02            | 17.01            | 18.50   |
|           |            | 36      | 0         | 17.07            | 17.06            | 17.04            | 18.50   |
|           |            | 36      | 18        | 17.19            | 17.16            | 16.89            | 18.50   |
|           |            | 36      | 39        | 17.08            | 17.17            | 17.05            | 18.50   |
|           |            | 75      | 0         | 17.08            | 17.10            | 16.97            | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20850 | Channel<br>21100 | Channel<br>21350 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 21.30            | 21.35            | 21.29            | 22.50   |
|           |            | 1       | 50        | 21.07            | 21.03            | 21.09            | 22.50   |
|           |            | 1       | 99        | 21.05            | 21.01            | 21.09            | 22.50   |
|           |            | 50      | 0         | 21.19            | 21.25            | 21.20            | 22.50   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 50  | 25 | 21.05 | 21.04 | 21.06 | 22.50 |
|  |        | 50  | 50 | 21.07 | 21.01 | 21.05 | 22.50 |
|  |        | 100 | 0  | 21.07 | 21.00 | 21.06 | 22.50 |
|  | 16QAM  | 1   | 0  | 21.04 | 21.01 | 20.99 | 22.50 |
|  |        | 1   | 50 | 21.05 | 21.06 | 21.01 | 22.50 |
|  |        | 1   | 99 | 21.04 | 21.06 | 21.04 | 22.50 |
|  |        | 50  | 0  | 20.01 | 20.03 | 20.02 | 21.50 |
|  |        | 50  | 25 | 20.00 | 20.07 | 20.08 | 21.50 |
|  |        | 50  | 50 | 20.04 | 20.06 | 20.01 | 21.50 |
|  |        | 100 | 0  | 20.11 | 20.08 | 20.07 | 21.50 |
|  | 64QAM  | 1   | 0  | 20.06 | 20.04 | 20.07 | 21.50 |
|  |        | 1   | 50 | 20.09 | 20.12 | 20.08 | 21.50 |
|  |        | 1   | 99 | 20.02 | 20.09 | 20.04 | 21.50 |
|  |        | 50  | 0  | 19.04 | 19.05 | 19.09 | 20.50 |
|  |        | 50  | 25 | 19.10 | 19.03 | 19.00 | 20.50 |
|  |        | 50  | 50 | 19.02 | 19.02 | 19.00 | 20.50 |
|  |        | 100 | 0  | 19.01 | 19.01 | 19.04 | 20.50 |
|  | 256QAM | 1   | 0  | 17.09 | 17.04 | 17.11 | 18.50 |
|  |        | 1   | 50 | 17.01 | 17.01 | 17.04 | 18.50 |
|  |        | 1   | 99 | 17.08 | 17.04 | 17.03 | 18.50 |
|  |        | 50  | 0  | 17.06 | 17.07 | 17.05 | 18.50 |
|  |        | 50  | 25 | 17.09 | 17.10 | 16.98 | 18.50 |
|  |        | 50  | 50 | 16.99 | 17.12 | 17.10 | 18.50 |
|  |        | 100 | 0  | 16.98 | 17.03 | 17.07 | 18.50 |

| LTE Band 7 Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz               | QPSK       | 1       | 0         | 20775                | 21100   | 21425   | 22.00   |
|                    |            | 1       | 13        | 20.62                | 20.74   | 20.73   | 22.00   |
|                    |            | 1       | 24        | 20.48                | 20.45   | 20.58   | 22.00   |
|                    |            | 12      | 0         | 20.73                | 20.47   | 20.37   | 22.00   |
|                    |            | 12      | 6         | 20.37                | 20.59   | 20.69   | 22.00   |
|                    |            | 12      | 13        | 20.48                | 20.55   | 20.61   | 22.00   |
|                    |            | 25      | 0         | 20.51                | 20.53   | 20.46   | 22.00   |
|                    | 16QAM      | 1       | 0         | 20.35                | 20.45   | 20.42   | 22.00   |
|                    |            | 1       | 0         | 20.65                | 20.46   | 20.37   | 22.00   |
|                    |            | 1       | 13        | 20.41                | 20.55   | 20.68   | 22.00   |
|                    |            | 1       | 24        | 20.42                | 20.64   | 20.56   | 22.00   |
|                    |            | 12      | 0         | 20.05                | 20.00   | 20.07   | 21.50   |
|                    |            | 12      | 6         | 19.96                | 19.94   | 19.87   | 21.50   |
|                    |            | 12      | 13        | 20.11                | 20.19   | 20.07   | 21.50   |
|                    | 64QAM      | 25      | 0         | 20.01                | 20.01   | 20.12   | 21.50   |
|                    |            | 1       | 0         | 20.13                | 20.05   | 20.00   | 21.50   |
|                    |            | 1       | 13        | 20.06                | 20.12   | 20.02   | 21.50   |
|                    |            | 1       | 24        | 19.80                | 20.12   | 20.10   | 21.50   |
|                    |            | 12      | 0         | 19.01                | 18.86   | 19.12   | 20.50   |
|                    |            | 12      | 6         | 19.17                | 19.10   | 19.06   | 20.50   |
|                    |            | 12      | 13        | 19.16                | 19.11   | 18.91   | 20.50   |
|                    | 256QAM     | 25      | 0         | 19.13                | 18.92   | 18.92   | 20.50   |
|                    |            | 1       | 0         | 17.34                | 17.13   | 17.06   | 18.50   |
|                    |            | 1       | 13        | 17.07                | 17.00   | 16.96   | 18.50   |
|                    |            | 1       | 24        | 17.00                | 17.24   | 17.14   | 18.50   |
|                    |            | 12      | 0         | 17.04                | 17.14   | 17.09   | 18.50   |
|                    |            | 12      | 6         | 16.95                | 17.13   | 17.26   | 18.50   |
|                    |            | 12      | 13        | 17.06                | 17.19   | 17.05   | 18.50   |
|                    | 10MHz      | 25      | 0         | 17.12                | 17.03   | 17.14   | 18.50   |
|                    |            | 1       | 0         | 20.59                | 20.69   | 20.63   | 22.00   |
|                    |            | 1       | 25        | 20.46                | 20.37   | 20.54   | 22.00   |
|                    |            | 1       | 49        | 20.68                | 20.52   | 20.43   | 22.00   |
|                    |            | 25      | 0         | 20.41                | 20.61   | 20.65   | 22.00   |
|                    |            | 25      | 13        | 20.44                | 20.56   | 20.56   | 22.00   |
|                    |            | 25      | 25        | 20.52                | 20.49   | 20.55   | 22.00   |
|                    | 16QAM      | 50      | 0         | 20.45                | 20.45   | 20.49   | 22.00   |
|                    |            | 1       | 0         | 20.56                | 20.48   | 20.42   | 22.00   |
|                    |            | 1       | 25        | 20.50                | 20.50   | 20.67   | 22.00   |
|                    |            | 1       | 49        | 20.51                | 20.66   | 20.60   | 22.00   |

|           |            |         |           |           |         |         |         |
|-----------|------------|---------|-----------|-----------|---------|---------|---------|
|           |            | 25      | 0         | 20.00     | 19.98   | 20.07   | 21.50   |
|           |            | 25      | 13        | 19.98     | 20.00   | 19.94   | 21.50   |
|           |            | 25      | 25        | 20.13     | 20.10   | 20.05   | 21.50   |
|           |            | 50      | 0         | 20.10     | 20.06   | 20.16   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.09     | 19.99   | 20.10   | 21.50   |
|           |            | 1       | 25        | 20.02     | 20.14   | 20.06   | 21.50   |
|           |            | 1       | 49        | 19.86     | 20.15   | 20.16   | 21.50   |
|           |            | 25      | 0         | 19.11     | 18.91   | 19.04   | 20.50   |
|           |            | 25      | 13        | 19.16     | 19.16   | 19.05   | 20.50   |
|           |            | 25      | 25        | 19.21     | 19.11   | 18.81   | 20.50   |
|           |            | 50      | 0         | 19.15     | 18.99   | 18.97   | 20.50   |
|           |            | 256QAM  | 1         | 0         | 17.24   | 17.15   | 17.04   |
|           | 1          |         | 25        | 16.97     | 17.08   | 16.99   | 18.50   |
|           | 1          |         | 49        | 17.03     | 17.21   | 17.05   | 18.50   |
|           | 25         |         | 0         | 17.14     | 17.09   | 17.14   | 18.50   |
|           | 25         |         | 13        | 16.92     | 17.18   | 17.17   | 18.50   |
| 25        | 25         |         | 16.97     | 17.23     | 17.07   | 18.50   |         |
| 50        | 0          | 17.03   | 17.05     | 17.05     | 18.50   |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel   | Channel | Channel | Tune up |
|           |            |         |           | 20825     | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 20.63     | 20.63   | 20.55   | 22.00   |
|           |            | 1       | 38        | 20.56     | 20.43   | 20.62   | 22.00   |
|           |            | 1       | 74        | 20.61     | 20.57   | 20.51   | 22.00   |
|           |            | 36      | 0         | 20.43     | 20.51   | 20.70   | 22.00   |
|           |            | 36      | 18        | 20.47     | 20.48   | 20.64   | 22.00   |
|           |            | 36      | 39        | 20.61     | 20.52   | 20.61   | 22.00   |
|           | 16QAM      | 75      | 0         | 20.47     | 20.48   | 20.52   | 22.00   |
|           |            | 1       | 0         | 20.50     | 20.38   | 20.47   | 22.00   |
|           |            | 1       | 38        | 20.50     | 20.51   | 20.57   | 22.00   |
|           |            | 1       | 74        | 20.49     | 20.63   | 20.57   | 22.00   |
|           |            | 36      | 0         | 19.96     | 19.94   | 20.12   | 21.50   |
|           |            | 36      | 18        | 20.05     | 20.08   | 19.93   | 21.50   |
|           |            | 36      | 39        | 20.08     | 20.20   | 20.07   | 21.50   |
|           |            | 75      | 0         | 20.11     | 20.03   | 20.15   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.09     | 20.09   | 20.08   | 21.50   |
|           |            | 1       | 38        | 20.08     | 20.11   | 20.08   | 21.50   |
|           |            | 1       | 74        | 19.95     | 20.06   | 20.10   | 21.50   |
|           |            | 36      | 0         | 19.16     | 18.99   | 19.03   | 20.50   |
|           |            | 36      | 18        | 19.19     | 19.11   | 19.01   | 20.50   |
|           |            | 36      | 39        | 19.12     | 19.10   | 18.91   | 20.50   |
|           |            | 75      | 0         | 19.07     | 19.08   | 19.04   | 20.50   |
|           |            | 256QAM  | 1         | 0         | 17.18   | 17.11   | 17.02   |
|           | 1          |         | 38        | 16.90     | 17.05   | 17.04   | 18.50   |
|           | 1          |         | 74        | 17.13     | 17.15   | 17.01   | 18.50   |
| 36        | 0          |         | 17.10     | 17.08     | 17.14   | 18.50   |         |
| 36        | 18         |         | 17.02     | 17.12     | 17.07   | 18.50   |         |
| 36        | 39         |         | 17.03     | 17.14     | 17.13   | 18.50   |         |
| 75        | 0          |         | 17.10     | 17.00     | 16.95   | 18.50   |         |
| Bandwidth | Modulation |         | RB size   | RB offset | Channel | Channel | Channel |
|           |            | 20850   |           |           | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 20.82     | 20.90   | 20.82   | 22.00   |
|           |            | 1       | 50        | 20.71     | 20.71   | 20.77   | 22.00   |
|           |            | 1       | 99        | 20.77     | 20.68   | 20.77   | 22.00   |
|           |            | 50      | 0         | 20.72     | 20.74   | 20.81   | 22.00   |
|           |            | 50      | 25        | 20.75     | 20.74   | 20.75   | 22.00   |
|           |            | 50      | 50        | 20.71     | 20.73   | 20.72   | 22.00   |
|           | 16QAM      | 100     | 0         | 20.77     | 20.69   | 20.78   | 22.00   |
|           |            | 1       | 0         | 20.72     | 20.65   | 20.69   | 22.00   |
|           |            | 1       | 50        | 20.70     | 20.79   | 20.72   | 22.00   |
|           |            | 1       | 99        | 20.74     | 20.74   | 20.71   | 22.00   |
|           |            | 50      | 0         | 20.20     | 20.23   | 20.22   | 21.50   |
|           |            | 50      | 25        | 20.19     | 20.24   | 20.23   | 21.50   |
|           | 64QAM      | 50      | 50        | 20.19     | 20.31   | 20.25   | 21.50   |
|           |            | 100     | 0         | 20.28     | 20.21   | 20.29   | 21.50   |
|           |            | 1       | 0         | 20.24     | 20.25   | 20.26   | 21.50   |
|           |            | 1       | 50        | 20.27     | 20.27   | 20.27   | 21.50   |
|           |            | 1       | 99        | 20.25     | 20.27   | 20.22   | 21.50   |
|           |            | 50      | 0         | 19.27     | 19.23   | 19.27   | 20.50   |
|           |            | 50      | 25        | 19.30     | 19.21   | 19.21   | 20.50   |
|           |            | 50      | 50        | 19.23     | 19.24   | 19.21   | 20.50   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 100 | 0  | 19.22 | 19.24 | 19.22 | 20.50 |
|  | 256QAM | 1   | 0  | 17.28 | 17.21 | 17.30 | 18.50 |
|  |        | 1   | 50 | 17.19 | 17.22 | 17.22 | 18.50 |
|  |        | 1   | 99 | 17.28 | 17.27 | 17.25 | 18.50 |
|  |        | 50  | 0  | 17.25 | 17.21 | 17.27 | 18.50 |
|  |        | 50  | 25 | 17.31 | 17.27 | 17.26 | 18.50 |
|  |        | 50  | 50 | 17.25 | 17.30 | 17.25 | 18.50 |
|  |        | 100 | 0  | 17.22 | 17.23 | 17.24 | 18.50 |

| LTE FDD Band 12 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |               |               |         |
|---------------------------------------------------|------------|---------|-----------|----------------------|---------------|---------------|---------|
| Bandwidth                                         | Modulation | RB size | RB offset | Channel 23017        | Channel 23095 | Channel 23173 | Tune up |
| 1.4MHz                                            | QPSK       | 1       | 0         | 23.45                | 23.46         | 23.53         | 25.00   |
|                                                   |            | 1       | 2         | 23.44                | 23.39         | 23.46         | 25.00   |
|                                                   |            | 1       | 5         | 23.19                | 23.26         | 23.27         | 25.00   |
|                                                   |            | 3       | 0         | 23.47                | 23.40         | 23.38         | 25.00   |
|                                                   |            | 3       | 2         | 23.29                | 23.26         | 23.28         | 25.00   |
|                                                   |            | 3       | 3         | 23.09                | 23.11         | 23.08         | 25.00   |
|                                                   | 16QAM      | 6       | 0         | 22.38                | 22.43         | 22.37         | 24.00   |
|                                                   |            | 1       | 0         | 22.32                | 22.24         | 22.18         | 24.00   |
|                                                   |            | 1       | 2         | 22.47                | 22.37         | 22.38         | 24.00   |
|                                                   |            | 1       | 5         | 22.24                | 22.26         | 22.31         | 24.00   |
|                                                   |            | 3       | 0         | 22.09                | 22.13         | 22.19         | 24.00   |
|                                                   |            | 3       | 2         | 22.30                | 22.21         | 22.13         | 24.00   |
|                                                   | 64QAM      | 3       | 3         | 22.19                | 22.18         | 22.18         | 24.00   |
|                                                   |            | 6       | 0         | 21.28                | 21.28         | 21.21         | 23.00   |
|                                                   |            | 1       | 0         | 21.38                | 21.34         | 21.34         | 23.00   |
|                                                   |            | 1       | 2         | 21.26                | 21.34         | 21.35         | 23.00   |
|                                                   |            | 1       | 5         | 21.18                | 21.21         | 21.26         | 23.00   |
|                                                   |            | 3       | 0         | 21.45                | 21.42         | 21.33         | 23.00   |
| 3MHz                                              | QPSK       | 3       | 2         | 21.46                | 21.38         | 21.43         | 23.00   |
|                                                   |            | 3       | 3         | 21.22                | 21.19         | 21.11         | 23.00   |
|                                                   |            | 6       | 0         | 20.55                | 20.52         | 20.45         | 22.00   |
|                                                   | 16QAM      | 1       | 0         | 18.31                | 18.29         | 18.22         | 20.00   |
|                                                   |            | 1       | 2         | 18.38                | 18.47         | 18.51         | 20.00   |
|                                                   |            | 1       | 5         | 18.09                | 18.13         | 18.13         | 20.00   |
|                                                   | 64QAM      | 3       | 0         | 18.29                | 18.23         | 18.32         | 20.00   |
|                                                   |            | 3       | 2         | 18.20                | 18.30         | 18.24         | 20.00   |
|                                                   |            | 3       | 3         | 18.44                | 18.40         | 18.32         | 20.00   |
|                                                   |            | 6       | 0         | 18.49                | 18.43         | 18.46         | 20.00   |
|                                                   | 256QAM     | 1       | 0         | 18.31                | 18.29         | 18.22         | 20.00   |
|                                                   |            | 1       | 2         | 18.38                | 18.47         | 18.51         | 20.00   |
|                                                   |            | 1       | 5         | 18.09                | 18.13         | 18.13         | 20.00   |
|                                                   |            | 3       | 0         | 18.29                | 18.23         | 18.32         | 20.00   |
|                                                   |            | 3       | 2         | 18.20                | 18.30         | 18.24         | 20.00   |
|                                                   |            | 3       | 3         | 18.44                | 18.40         | 18.32         | 20.00   |
|                                                   | 16QAM      | 6       | 0         | 18.49                | 18.43         | 18.46         | 20.00   |
|                                                   |            | 1       | 0         | 23.39                | 23.41         | 23.40         | 25.00   |
|                                                   |            | 1       | 7         | 23.26                | 23.34         | 23.28         | 25.00   |
|                                                   |            | 1       | 14        | 23.29                | 23.19         | 23.17         | 25.00   |
|                                                   |            | 8       | 0         | 22.45                | 22.37         | 22.30         | 24.00   |
|                                                   |            | 8       | 4         | 22.18                | 22.23         | 22.24         | 24.00   |
| 3MHz                                              | QPSK       | 8       | 7         | 22.06                | 22.08         | 22.18         | 24.00   |
|                                                   |            | 15      | 0         | 22.25                | 22.35         | 22.29         | 24.00   |
|                                                   | 16QAM      | 1       | 0         | 22.25                | 22.16         | 22.13         | 24.00   |
|                                                   |            | 1       | 7         | 22.32                | 22.31         | 22.41         | 24.00   |
|                                                   |            | 1       | 14        | 22.21                | 22.20         | 22.28         | 24.00   |
|                                                   |            | 8       | 0         | 21.02                | 21.06         | 21.08         | 23.00   |
|                                                   | 64QAM      | 8       | 4         | 21.25                | 21.29         | 21.32         | 23.00   |
|                                                   |            | 8       | 7         | 21.05                | 21.10         | 21.16         | 23.00   |
|                                                   |            | 15      | 0         | 21.36                | 21.35         | 21.31         | 23.00   |
|                                                   | 256QAM     | 1       | 0         | 21.28                | 21.33         | 21.27         | 23.00   |
|                                                   |            | 1       | 7         | 21.42                | 21.43         | 21.44         | 23.00   |
|                                                   |            | 1       | 14        | 21.32                | 21.27         | 21.21         | 23.00   |
|                                                   |            | 8       | 0         | 20.34                | 20.32         | 20.23         | 22.00   |
|                                                   |            | 8       | 4         | 20.24                | 20.28         | 20.21         | 22.00   |
|                                                   |            | 8       | 7         | 20.31                | 20.26         | 20.32         | 22.00   |
|                                                   | 16QAM      | 15      | 0         | 20.44                | 20.44         | 20.52         | 22.00   |
|                                                   |            | 1       | 0         | 18.09                | 18.19         | 18.28         | 20.00   |
|                                                   |            | 1       | 7         | 18.39                | 18.37         | 18.32         | 20.00   |
|                                                   |            | 1       | 14        | 18.32                | 18.22         | 18.30         | 20.00   |
|                                                   |            | 8       | 0         | 18.26                | 18.27         | 18.30         | 20.00   |
|                                                   |            | 8       | 4         | 18.46                | 18.39         | 18.39         | 20.00   |

|           |            | 8       | 7         | 18.33   | 18.38   | 18.42   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 15      | 0         | 18.55   | 18.46   | 18.40   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 23035   | 23095   | 23155   |         |
| 5MHz      | QPSK       | 1       | 0         | 23.45   | 23.38   | 23.45   | 25.00   |
|           |            | 1       | 13        | 23.30   | 23.24   | 23.22   | 25.00   |
|           |            | 1       | 24        | 23.10   | 23.18   | 23.28   | 25.00   |
|           |            | 12      | 0         | 22.40   | 22.30   | 22.31   | 24.00   |
|           |            | 12      | 6         | 22.19   | 22.18   | 22.08   | 24.00   |
|           |            | 12      | 13        | 22.16   | 22.18   | 22.15   | 24.00   |
|           |            | 25      | 0         | 22.38   | 22.39   | 22.34   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.19   | 22.24   | 22.28   | 24.00   |
|           |            | 1       | 13        | 22.27   | 22.35   | 22.31   | 24.00   |
|           |            | 1       | 24        | 22.22   | 22.28   | 22.21   | 24.00   |
|           |            | 12      | 0         | 21.12   | 21.15   | 21.12   | 23.00   |
|           |            | 12      | 6         | 21.32   | 21.27   | 21.18   | 23.00   |
|           |            | 12      | 13        | 21.13   | 21.09   | 21.00   | 23.00   |
|           | 64QAM      | 25      | 0         | 21.28   | 21.28   | 21.30   | 23.00   |
|           |            | 1       | 0         | 21.25   | 21.31   | 21.24   | 23.00   |
|           |            | 1       | 13        | 21.34   | 21.35   | 21.41   | 23.00   |
|           |            | 1       | 24        | 21.13   | 21.18   | 21.28   | 23.00   |
|           |            | 12      | 0         | 20.37   | 20.28   | 20.28   | 22.00   |
|           |            | 12      | 6         | 20.20   | 20.21   | 20.13   | 22.00   |
|           |            | 12      | 13        | 20.14   | 20.23   | 20.19   | 22.00   |
|           | 256QAM     | 25      | 0         | 20.44   | 20.36   | 20.33   | 22.00   |
|           |            | 1       | 0         | 18.24   | 18.20   | 18.20   | 20.00   |
|           |            | 1       | 13        | 18.35   | 18.32   | 18.25   | 20.00   |
|           |            | 1       | 24        | 18.20   | 18.30   | 18.21   | 20.00   |
|           |            | 12      | 0         | 18.39   | 18.29   | 18.35   | 20.00   |
|           |            | 12      | 6         | 18.41   | 18.39   | 18.33   | 20.00   |
|           |            | 12      | 13        | 18.29   | 18.36   | 18.35   | 20.00   |
|           |            | 25      | 0         | 18.32   | 18.41   | 18.47   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 23095   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 23.33   | /       | 25.00   |
|           |            | 1       | 25        | /       | 23.25   | /       | 25.00   |
|           |            | 1       | 49        | /       | 23.20   | /       | 25.00   |
|           |            | 25      | 0         | /       | 22.25   | /       | 24.00   |
|           |            | 25      | 13        | /       | 22.22   | /       | 24.00   |
|           |            | 25      | 25        | /       | 22.20   | /       | 24.00   |
|           |            | 50      | 0         | /       | 22.32   | /       | 24.00   |
|           | 16QAM      | 1       | 0         | /       | 22.22   | /       | 24.00   |
|           |            | 1       | 25        | /       | 22.26   | /       | 24.00   |
|           |            | 1       | 49        | /       | 22.24   | /       | 24.00   |
|           |            | 25      | 0         | /       | 21.24   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.27   | /       | 23.00   |
|           |            | 25      | 25        | /       | 21.18   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.21   | /       | 23.00   |
|           | 64QAM      | 1       | 0         | /       | 21.27   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.26   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.24   | /       | 23.00   |
|           |            | 25      | 0         | /       | 20.20   | /       | 22.00   |
|           |            | 25      | 13        | /       | 20.20   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.22   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.27   | /       | 22.00   |
|           | 256QAM     | 1       | 0         | /       | 18.22   | /       | 20.00   |
|           |            | 1       | 25        | /       | 18.29   | /       | 20.00   |
|           |            | 1       | 49        | /       | 18.23   | /       | 20.00   |
|           |            | 25      | 0         | /       | 18.19   | /       | 20.00   |
|           |            | 25      | 13        | /       | 18.30   | /       | 20.00   |
|           |            | 25      | 25        | /       | 18.29   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.32   | /       | 20.00   |

| LTE FDD Band 14 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                   |            |         |           | /                    | 23330   | /       |         |
| 5MHz                                              | QPSK       | 1       | 0         | /                    | 23.51   | /       | 25.00   |
|                                                   |            | 1       | 13        | /                    | 23.44   | /       | 25.00   |

|           |            |         |         |         |         |         |         |
|-----------|------------|---------|---------|---------|---------|---------|---------|
|           |            | 1       | 24      | /       | 23.38   | /       | 25.00   |
|           |            | 12      | 0       | /       | 22.46   | /       | 24.00   |
|           |            | 12      | 6       | /       | 22.39   | /       | 24.00   |
|           |            | 12      | 13      | /       | 22.55   | /       | 24.00   |
|           |            | 25      | 0       | /       | 22.56   | /       | 24.00   |
|           | 16QAM      | 1       | 0       | /       | 22.54   | /       | 24.00   |
|           |            | 1       | 13      | /       | 22.45   | /       | 24.00   |
|           |            | 1       | 24      | /       | 22.51   | /       | 24.00   |
|           |            | 12      | 0       | /       | 21.37   | /       | 23.00   |
|           |            | 12      | 6       | /       | 21.48   | /       | 23.00   |
|           | 64QAM      | 12      | 13      | /       | 21.34   | /       | 23.00   |
|           |            | 25      | 0       | /       | 21.43   | /       | 23.00   |
|           |            | 1       | 0       | /       | 21.41   | /       | 23.00   |
|           |            | 1       | 13      | /       | 21.46   | /       | 23.00   |
|           |            | 1       | 24      | /       | 21.49   | /       | 23.00   |
|           | 256QAM     | 12      | 0       | /       | 20.53   | /       | 22.00   |
|           |            | 12      | 6       | /       | 20.40   | /       | 22.00   |
|           |            | 12      | 13      | /       | 20.42   | /       | 22.00   |
|           |            | 25      | 0       | /       | 20.52   | /       | 22.00   |
|           |            | 1       | 0       | /       | 18.51   | /       | 20.00   |
| Bandwidth | Modulation | 1       | 13      | /       | 18.43   | /       | 20.00   |
|           |            | 1       | 24      | /       | 18.39   | /       | 20.00   |
|           |            | 12      | 0       | /       | 18.46   | /       | 20.00   |
|           |            | 12      | 6       | /       | 18.38   | /       | 20.00   |
|           |            | 12      | 13      | /       | 18.46   | /       | 20.00   |
|           | RB size    | 25      | 0       | /       | 18.34   | /       | 20.00   |
|           |            | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            | /       | 23330   | /       | /       | /       | /       |
|           | QPSK       | 1       | 0       | /       | 23.56   | /       | 25.00   |
|           |            | 1       | 25      | /       | 23.48   | /       | 25.00   |
|           |            | 1       | 49      | /       | 23.46   | /       | 25.00   |
|           |            | 25      | 0       | /       | 22.46   | /       | 24.00   |
|           |            | 25      | 13      | /       | 22.48   | /       | 24.00   |
|           | 16QAM      | 25      | 25      | /       | 22.46   | /       | 24.00   |
|           |            | 50      | 0       | /       | 22.47   | /       | 24.00   |
|           |            | 1       | 0       | /       | 22.49   | /       | 24.00   |
|           |            | 1       | 25      | /       | 22.48   | /       | 24.00   |
|           |            | 1       | 49      | /       | 22.46   | /       | 24.00   |
|           | 64QAM      | 25      | 0       | /       | 21.41   | /       | 23.00   |
|           |            | 25      | 13      | /       | 21.45   | /       | 23.00   |
|           |            | 25      | 25      | /       | 21.44   | /       | 23.00   |
|           |            | 50      | 0       | /       | 21.45   | /       | 23.00   |
|           |            | 1       | 0       | /       | 21.49   | /       | 23.00   |
|           | 256QAM     | 1       | 25      | /       | 21.42   | /       | 23.00   |
|           |            | 1       | 49      | /       | 21.43   | /       | 23.00   |
|           |            | 25      | 0       | /       | 20.48   | /       | 22.00   |
|           |            | 25      | 13      | /       | 20.44   | /       | 22.00   |
|           |            | 25      | 25      | /       | 20.47   | /       | 22.00   |
| 10MHz     | QPSK       | 50      | 0       | /       | 20.43   | /       | 22.00   |
|           |            | 1       | 0       | /       | 18.43   | /       | 20.00   |
|           |            | 1       | 25      | /       | 18.44   | /       | 20.00   |
|           |            | 1       | 49      | /       | 18.42   | /       | 20.00   |
|           |            | 25      | 0       | /       | 18.42   | /       | 20.00   |
|           | 16QAM      | 25      | 13      | /       | 18.44   | /       | 20.00   |
|           |            | 25      | 25      | /       | 18.42   | /       | 20.00   |
|           |            | 50      | 0       | /       | 18.43   | /       | 20.00   |
|           | 64QAM      | 1       | 0       | /       | 23.56   | /       | 25.00   |
|           |            | 1       | 25      | /       | 23.48   | /       | 25.00   |
|           |            | 1       | 49      | /       | 23.46   | /       | 25.00   |
|           |            | 25      | 0       | /       | 22.46   | /       | 24.00   |
|           |            | 25      | 13      | /       | 22.48   | /       | 24.00   |
|           | 256QAM     | 25      | 25      | /       | 22.46   | /       | 24.00   |
|           |            | 50      | 0       | /       | 22.47   | /       | 24.00   |
|           |            | 1       | 0       | /       | 22.49   | /       | 24.00   |
|           |            | 1       | 25      | /       | 22.48   | /       | 24.00   |
|           |            | 1       | 49      | /       | 22.46   | /       | 24.00   |

| LTE FDD Band 14 Head For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                  | QPSK       | 1       | 0         | /                    | 23330   | /       | 22.50   |
|                                       |            | 1       | 13        | /                    | 21.22   | /       | 22.50   |
|                                       |            | 1       | 24        | /                    | 20.94   | /       | 22.50   |
|                                       |            | 12      | 0         | /                    | 20.96   | /       | 22.50   |
|                                       |            | 12      | 6         | /                    | 20.99   | /       | 22.50   |
|                                       |            | 12      | 13        | /                    | 21.09   | /       | 22.50   |
|                                       |            | 25      | 0         | /                    | 20.91   | /       | 22.50   |
|                                       | 16QAM      | 25      | 0         | /                    | 21.02   | /       | 22.50   |
|                                       |            | 1       | 0         | /                    | 21.02   | /       | 22.50   |
|                                       |            | 1       | 0         | /                    | 21.02   | /       | 22.50   |

|           |            | 1       | 13        | /       | 20.92   | /       | 22.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 24        | /       | 20.97   | /       | 22.50   |
|           |            | 12      | 0         | /       | 20.84   | /       | 22.50   |
|           |            | 12      | 6         | /       | 20.84   | /       | 22.50   |
|           |            | 12      | 13        | /       | 20.94   | /       | 22.50   |
|           |            | 25      | 0         | /       | 20.89   | /       | 22.50   |
|           | 64QAM      | 1       | 0         | /       | 21.08   | /       | 22.50   |
|           |            | 1       | 13        | /       | 20.95   | /       | 22.50   |
|           |            | 1       | 24        | /       | 21.08   | /       | 22.50   |
|           |            | 12      | 0         | /       | 20.56   | /       | 22.00   |
|           |            | 12      | 6         | /       | 20.58   | /       | 22.00   |
|           |            | 12      | 13        | /       | 20.62   | /       | 22.00   |
|           | 256QAM     | 25      | 0         | /       | 20.43   | /       | 22.00   |
|           |            | 1       | 0         | /       | 18.42   | /       | 20.00   |
|           |            | 1       | 13        | /       | 18.40   | /       | 20.00   |
|           |            | 1       | 24        | /       | 18.48   | /       | 20.00   |
|           |            | 12      | 0         | /       | 18.49   | /       | 20.00   |
|           |            | 12      | 6         | /       | 18.30   | /       | 20.00   |
|           |            | 12      | 13        | /       | 18.60   | /       | 20.00   |
|           |            | 25      | 0         | /       | 18.41   | /       | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | /       | 23330   | /       | 22.50   |
|           |            | 1       | 25        | /       | 21.12   | /       | 22.50   |
|           |            | 1       | 49        | /       | 21.02   | /       | 22.50   |
|           |            | 25      | 0         | /       | 20.97   | /       | 22.50   |
|           |            | 25      | 13        | /       | 20.92   | /       | 22.50   |
|           |            | 25      | 25        | /       | 21.08   | /       | 22.50   |
|           | 16QAM      | 50      | 0         | /       | 21.01   | /       | 22.50   |
|           |            | 1       | 0         | /       | 20.95   | /       | 22.50   |
|           |            | 1       | 25        | /       | 21.03   | /       | 22.50   |
|           |            | 1       | 49        | /       | 21.01   | /       | 22.50   |
|           |            | 25      | 0         | /       | 20.98   | /       | 22.50   |
|           |            | 25      | 13        | /       | 20.92   | /       | 22.50   |
|           | 64QAM      | 25      | 25        | /       | 20.91   | /       | 22.50   |
|           |            | 25      | 0         | /       | 20.96   | /       | 22.50   |
|           |            | 25      | 13        | /       | 21.01   | /       | 22.50   |
|           |            | 25      | 25        | /       | 20.98   | /       | 22.50   |
|           |            | 50      | 0         | /       | 20.91   | /       | 22.50   |
|           |            | 50      | 25        | /       | 20.96   | /       | 22.50   |
|           | 256QAM     | 1       | 0         | /       | 21.01   | /       | 22.50   |
|           |            | 1       | 25        | /       | 20.94   | /       | 22.50   |
|           |            | 1       | 49        | /       | 20.99   | /       | 22.50   |
|           |            | 25      | 0         | /       | 20.57   | /       | 22.00   |
|           |            | 25      | 13        | /       | 20.53   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.56   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.52   | /       | 22.00   |
|           |            | 1       | 0         | /       | 18.42   | /       | 20.00   |
|           |            | 1       | 25        | /       | 18.47   | /       | 20.00   |
|           |            | 1       | 49        | /       | 18.40   | /       | 20.00   |
|           |            | 25      | 0         | /       | 18.43   | /       | 20.00   |
|           |            | 25      | 13        | /       | 18.39   | /       | 20.00   |
|           |            | 25      | 25        | /       | 18.50   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.39   | /       | 20.00   |

| LTE FDD Band 14 Body worn/Hotspot For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                               | QPSK       | 1       | 0         | /                    | 23330   | /       | 24.00   |
|                                                    |            | 1       | 13        | /                    | 22.73   | /       | 24.00   |
|                                                    |            | 1       | 24        | /                    | 22.60   | /       | 24.00   |
|                                                    |            | 12      | 0         | /                    | 22.52   | /       | 24.00   |
|                                                    |            | 12      | 6         | /                    | 22.57   | /       | 24.00   |
|                                                    |            | 12      | 13        | /                    | 22.67   | /       | 24.00   |
|                                                    | 16QAM      | 25      | 0         | /                    | 22.53   | /       | 24.00   |
|                                                    |            | 1       | 0         | /                    | 22.42   | /       | 24.00   |
|                                                    |            | 1       | 13        | /                    | 22.58   | /       | 24.00   |
|                                                    |            | 1       | 24        | /                    | 22.64   | /       | 24.00   |
|                                                    |            | 12      | 0         | /                    | 22.39   | /       | 24.00   |
|                                                    |            | 12      | 6         | /                    | 21.42   | /       | 23.00   |
|                                                    |            | 12      | 13        | /                    | 21.38   | /       | 23.00   |
|                                                    |            | 12      | 25        | /                    | 21.58   | /       | 23.00   |
|                                                    |            | 25      | 0         | /                    | 21.37   | /       | 23.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 64QAM      | 1       | 0         | /       | 21.53   | /       | 23.00   |
|           |            | 1       | 13        | /       | 21.50   | /       | 23.00   |
|           |            | 1       | 24        | /       | 21.46   | /       | 23.00   |
|           |            | 12      | 0         | /       | 20.53   | /       | 22.00   |
|           |            | 12      | 6         | /       | 20.55   | /       | 22.00   |
|           |            | 12      | 13        | /       | 20.60   | /       | 22.00   |
|           | 256QAM     | 25      | 0         | /       | 20.48   | /       | 22.00   |
|           |            | 1       | 0         | /       | 18.48   | /       | 20.00   |
|           |            | 1       | 13        | /       | 18.42   | /       | 20.00   |
|           |            | 1       | 24        | /       | 18.42   | /       | 20.00   |
|           |            | 12      | 0         | /       | 18.35   | /       | 20.00   |
|           |            | 12      | 6         | /       | 18.40   | /       | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 23330   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 22.71   | /       | 24.00   |
|           |            | 1       | 25        | /       | 22.5    | /       | 24.00   |
|           |            | 1       | 49        | /       | 22.55   | /       | 24.00   |
|           |            | 25      | 0         | /       | 22.51   | /       | 24.00   |
|           |            | 25      | 13        | /       | 22.63   | /       | 24.00   |
|           |            | 25      | 25        | /       | 22.59   | /       | 24.00   |
|           | 16QAM      | 50      | 0         | /       | 22.41   | /       | 24.00   |
|           |            | 1       | 0         | /       | 22.6    | /       | 24.00   |
|           |            | 1       | 25        | /       | 22.6    | /       | 24.00   |
|           |            | 1       | 49        | /       | 22.47   | /       | 24.00   |
|           |            | 25      | 0         | /       | 21.52   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.45   | /       | 23.00   |
|           | 64QAM      | 25      | 25        | /       | 21.56   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.44   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.53   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.43   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.50   | /       | 23.00   |
|           |            | 25      | 0         | /       | 20.55   | /       | 22.00   |
|           | 256QAM     | 25      | 13        | /       | 20.58   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.61   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.53   | /       | 22.00   |
|           |            | 1       | 0         | /       | 18.40   | /       | 20.00   |
|           |            | 1       | 25        | /       | 18.52   | /       | 20.00   |
|           |            | 1       | 49        | /       | 18.38   | /       | 20.00   |
|           |            | 25      | 0         | /       | 18.45   | /       | 20.00   |
|           |            | 25      | 13        | /       | 18.43   | /       | 20.00   |
|           |            | 25      | 25        | /       | 18.59   | /       | 20.00   |
|           |            | 50      | 0         | /       | 18.45   | /       | 20.00   |

| LTE FDD Band 17 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                   |            |         |           | /                    | 23790   | /       |         |
| 5MHz                                              | QPSK       | 1       | 0         | /                    | 24.19   | /       | 26.00   |
|                                                   |            | 1       | 13        | /                    | 24.11   | /       | 26.00   |
|                                                   |            | 1       | 24        | /                    | 24.05   | /       | 26.00   |
|                                                   |            | 12      | 0         | /                    | 23.02   | /       | 25.00   |
|                                                   |            | 12      | 6         | /                    | 23.23   | /       | 25.00   |
|                                                   |            | 12      | 13        | /                    | 23.11   | /       | 25.00   |
|                                                   | 16QAM      | 25      | 0         | /                    | 23.28   | /       | 25.00   |
|                                                   |            | 1       | 0         | /                    | 23.07   | /       | 25.00   |
|                                                   |            | 1       | 13        | /                    | 23.18   | /       | 25.00   |
|                                                   |            | 1       | 24        | /                    | 23.04   | /       | 25.00   |
|                                                   |            | 12      | 0         | /                    | 22.02   | /       | 24.00   |
|                                                   |            | 12      | 6         | /                    | 22.19   | /       | 24.00   |
|                                                   | 64QAM      | 12      | 13        | /                    | 22.21   | /       | 24.00   |
|                                                   |            | 25      | 0         | /                    | 22.14   | /       | 24.00   |
|                                                   |            | 1       | 0         | /                    | 22.13   | /       | 24.00   |
|                                                   |            | 1       | 13        | /                    | 22.06   | /       | 24.00   |
|                                                   |            | 1       | 24        | /                    | 22.19   | /       | 24.00   |
|                                                   |            | 12      | 0         | /                    | 21.21   | /       | 23.00   |
|                                                   | 256QAM     | 12      | 6         | /                    | 21.02   | /       | 23.00   |
|                                                   |            | 12      | 13        | /                    | 21.06   | /       | 23.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 256QAM     | 25      | 0         | /       | 21.06   | /       | 23.00   |
|           |            | 1       | 0         | /       | 19.11   | /       | 21.00   |
|           |            | 1       | 13        | /       | 19.10   | /       | 21.00   |
|           |            | 1       | 24        | /       | 19.12   | /       | 21.00   |
|           |            | 12      | 0         | /       | 19.10   | /       | 21.00   |
|           |            | 12      | 6         | /       | 19.04   | /       | 21.00   |
|           |            | 12      | 13        | /       | 19.11   | /       | 21.00   |
|           | 256QAM     | 25      | 0         | /       | 19.21   | /       | 21.00   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | /       | 23790   | /       |         |
|           |            | 1       | 0         | /       | 24.23   | /       | 26.00   |
|           |            | 1       | 25        | /       | 24.08   | /       | 26.00   |
|           |            | 1       | 49        | /       | 24.09   | /       | 26.00   |
|           |            | 25      | 0         | /       | 23.07   | /       | 25.00   |
|           |            | 25      | 13        | /       | 23.18   | /       | 25.00   |
|           |            | 25      | 25        | /       | 23.13   | /       | 25.00   |
|           | 16QAM      | 50      | 0         | /       | 23.19   | /       | 25.00   |
|           |            | 1       | 0         | /       | 23.09   | /       | 25.00   |
|           |            | 1       | 25        | /       | 23.13   | /       | 25.00   |
|           |            | 1       | 49        | /       | 23.09   | /       | 25.00   |
|           |            | 25      | 0         | /       | 22.08   | /       | 24.00   |
|           |            | 25      | 13        | /       | 22.17   | /       | 24.00   |
|           |            | 25      | 25        | /       | 22.14   | /       | 24.00   |
|           | 64QAM      | 50      | 0         | /       | 22.07   | /       | 24.00   |
|           |            | 1       | 0         | /       | 22.08   | /       | 24.00   |
|           |            | 1       | 25        | /       | 22.08   | /       | 24.00   |
|           |            | 1       | 49        | /       | 22.16   | /       | 24.00   |
|           |            | 25      | 0         | /       | 21.13   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.08   | /       | 23.00   |
|           |            | 25      | 25        | /       | 21.11   | /       | 23.00   |
|           | 256QAM     | 50      | 0         | /       | 21.15   | /       | 23.00   |
|           |            | 1       | 0         | /       | 19.15   | /       | 21.00   |
|           |            | 1       | 25        | /       | 19.09   | /       | 21.00   |
|           |            | 1       | 49        | /       | 19.13   | /       | 21.00   |
|           |            | 25      | 0         | /       | 19.14   | /       | 21.00   |
|           |            | 25      | 13        | /       | 19.12   | /       | 21.00   |
|           |            | 25      | 25        | /       | 19.07   | /       | 21.00   |
|           |            | 50      | 0         | /       | 19.14   | /       | 21.00   |

| LTE FDD Band 30 full power/Head |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                            | QPSK       | 1       | 0         | /                    | 27710   | /       |         |
|                                 |            | 1       | 0         | /                    | 22.26   | /       | 24.00   |
|                                 |            | 1       | 13        | /                    | 22.24   | /       | 24.00   |
|                                 |            | 1       | 24        | /                    | 22.33   | /       | 24.00   |
|                                 |            | 12      | 0         | /                    | 21.22   | /       | 23.00   |
|                                 |            | 12      | 6         | /                    | 21.23   | /       | 23.00   |
|                                 |            | 12      | 13        | /                    | 21.18   | /       | 23.00   |
|                                 | 16QAM      | 25      | 0         | /                    | 21.39   | /       | 23.00   |
|                                 |            | 1       | 0         | /                    | 21.14   | /       | 23.00   |
|                                 |            | 1       | 13        | /                    | 21.27   | /       | 23.00   |
|                                 |            | 1       | 24        | /                    | 21.36   | /       | 23.00   |
|                                 |            | 12      | 0         | /                    | 20.17   | /       | 22.00   |
|                                 |            | 12      | 6         | /                    | 20.25   | /       | 22.00   |
|                                 |            | 12      | 13        | /                    | 20.31   | /       | 22.00   |
|                                 | 64QAM      | 25      | 0         | /                    | 20.09   | /       | 22.00   |
|                                 |            | 1       | 0         | /                    | 20.26   | /       | 22.00   |
|                                 |            | 1       | 13        | /                    | 20.21   | /       | 22.00   |
|                                 |            | 1       | 24        | /                    | 20.19   | /       | 22.00   |
|                                 |            | 12      | 0         | /                    | 19.20   | /       | 21.00   |
|                                 |            | 12      | 6         | /                    | 19.30   | /       | 21.00   |
|                                 |            | 12      | 13        | /                    | 19.39   | /       | 21.00   |
|                                 | 256QAM     | 25      | 0         | /                    | 19.35   | /       | 21.00   |
|                                 |            | 1       | 0         | /                    | 17.14   | /       | 19.00   |
|                                 |            | 1       | 13        | /                    | 17.24   | /       | 19.00   |
|                                 |            | 1       | 24        | /                    | 17.22   | /       | 19.00   |
|                                 |            | 12      | 0         | /                    | 17.38   | /       | 19.00   |
|                                 |            | 12      | 6         | /                    | 17.23   | /       | 19.00   |

|           |            | 12      | 13        | /       | 17.32   | /       | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | /       | 17.22   | /       | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 27710   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 22.73   | /       | 24.00   |
|           |            | 1       | 25        | /       | 22.62   | /       | 24.00   |
|           |            | 1       | 49        | /       | 22.68   | /       | 24.00   |
|           |            | 25      | 0         | /       | 21.69   | /       | 23.00   |
|           |            | 25      | 13        | /       | 21.67   | /       | 23.00   |
|           |            | 25      | 25        | /       | 21.65   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.72   | /       | 23.00   |
|           | 16QAM      | 1       | 0         | /       | 21.62   | /       | 23.00   |
|           |            | 1       | 25        | /       | 21.57   | /       | 23.00   |
|           |            | 1       | 49        | /       | 21.68   | /       | 23.00   |
|           |            | 25      | 0         | /       | 20.63   | /       | 22.00   |
|           |            | 25      | 13        | /       | 20.69   | /       | 22.00   |
|           |            | 25      | 25        | /       | 20.65   | /       | 22.00   |
|           | 64QAM      | 50      | 0         | /       | 20.58   | /       | 22.00   |
|           |            | 1       | 0         | /       | 20.71   | /       | 22.00   |
|           |            | 1       | 25        | /       | 20.61   | /       | 22.00   |
|           |            | 1       | 49        | /       | 20.60   | /       | 22.00   |
|           |            | 25      | 0         | /       | 19.60   | /       | 21.00   |
|           |            | 25      | 13        | /       | 19.67   | /       | 21.00   |
|           | 256QAM     | 25      | 25        | /       | 19.69   | /       | 21.00   |
|           |            | 50      | 0         | /       | 19.70   | /       | 21.00   |
|           |            | 1       | 0         | /       | 17.61   | /       | 19.00   |
|           |            | 1       | 25        | /       | 17.65   | /       | 19.00   |
|           |            | 1       | 49        | /       | 17.64   | /       | 19.00   |
|           |            | 25      | 0         | /       | 17.68   | /       | 19.00   |
|           |            | 25      | 13        | /       | 17.71   | /       | 19.00   |
|           |            | 25      | 25        | /       | 17.67   | /       | 19.00   |
|           |            | 50      | 0         | /       | 17.30   | /       | 19.00   |

| LTE FDD Band 30 Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | /                    | 27710   | /       |         |
| 5MHz                              | QPSK       | 1       | 0         | /                    | 21.77   | /       | 23.50   |
|                                   |            | 1       | 13        | /                    | 21.68   | /       | 23.50   |
|                                   |            | 1       | 24        | /                    | 21.69   | /       | 23.50   |
|                                   |            | 12      | 0         | /                    | 21.22   | /       | 23.00   |
|                                   |            | 12      | 6         | /                    | 21.23   | /       | 23.00   |
|                                   |            | 12      | 13        | /                    | 21.18   | /       | 23.00   |
|                                   |            | 25      | 0         | /                    | 21.39   | /       | 23.00   |
|                                   | 16QAM      | 1       | 0         | /                    | 21.14   | /       | 23.00   |
|                                   |            | 1       | 13        | /                    | 21.27   | /       | 23.00   |
|                                   |            | 1       | 24        | /                    | 21.36   | /       | 23.00   |
|                                   |            | 12      | 0         | /                    | 20.17   | /       | 22.00   |
|                                   |            | 12      | 6         | /                    | 20.25   | /       | 22.00   |
|                                   |            | 12      | 13        | /                    | 20.31   | /       | 22.00   |
|                                   | 64QAM      | 25      | 0         | /                    | 20.09   | /       | 22.00   |
|                                   |            | 1       | 0         | /                    | 20.26   | /       | 22.00   |
|                                   |            | 1       | 13        | /                    | 20.21   | /       | 22.00   |
|                                   |            | 1       | 24        | /                    | 20.19   | /       | 22.00   |
|                                   |            | 12      | 0         | /                    | 19.20   | /       | 21.00   |
|                                   |            | 12      | 6         | /                    | 19.30   | /       | 21.00   |
|                                   | 256QAM     | 12      | 13        | /                    | 19.39   | /       | 21.00   |
|                                   |            | 25      | 0         | /                    | 19.35   | /       | 21.00   |
|                                   |            | 1       | 0         | /                    | 17.14   | /       | 19.00   |
|                                   |            | 1       | 13        | /                    | 17.24   | /       | 19.00   |
|                                   |            | 1       | 24        | /                    | 17.22   | /       | 19.00   |
|                                   |            | 12      | 0         | /                    | 17.38   | /       | 19.00   |
|                                   |            | 12      | 6         | /                    | 17.23   | /       | 19.00   |
|                                   |            | 12      | 13        | /                    | 17.32   | /       | 19.00   |
|                                   |            | 25      | 0         | /                    | 17.22   | /       | 19.00   |
| Bandwidth                         | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                   |            |         |           | /                    | 27710   | /       |         |
| 10MHz                             | QPSK       | 1       | 0         | /                    | 22.26   | /       | 23.50   |
|                                   |            | 1       | 25        | /                    | 22.05   | /       | 23.50   |

|  |        |    |    |   |       |   |       |
|--|--------|----|----|---|-------|---|-------|
|  |        | 1  | 49 | / | 22.02 | / | 23.50 |
|  |        | 25 | 0  | / | 21.69 | / | 23.00 |
|  |        | 25 | 13 | / | 21.67 | / | 23.00 |
|  |        | 25 | 25 | / | 21.65 | / | 23.00 |
|  |        | 50 | 0  | / | 21.72 | / | 23.00 |
|  | 16QAM  | 1  | 0  | / | 21.62 | / | 23.00 |
|  |        | 1  | 25 | / | 21.57 | / | 23.00 |
|  |        | 1  | 49 | / | 21.68 | / | 23.00 |
|  |        | 25 | 0  | / | 20.63 | / | 22.00 |
|  |        | 25 | 13 | / | 20.69 | / | 22.00 |
|  | 64QAM  | 25 | 25 | / | 20.65 | / | 22.00 |
|  |        | 50 | 0  | / | 20.58 | / | 22.00 |
|  |        | 1  | 0  | / | 20.71 | / | 22.00 |
|  |        | 1  | 25 | / | 20.61 | / | 22.00 |
|  |        | 1  | 49 | / | 20.60 | / | 22.00 |
|  | 256QAM | 25 | 0  | / | 19.60 | / | 21.00 |
|  |        | 25 | 13 | / | 19.67 | / | 21.00 |
|  |        | 25 | 25 | / | 19.69 | / | 21.00 |
|  |        | 50 | 0  | / | 19.70 | / | 21.00 |
|  |        | 1  | 0  | / | 17.61 | / | 19.00 |
|  |        | 1  | 25 | / | 17.65 | / | 19.00 |
|  |        | 1  | 49 | / | 17.64 | / | 19.00 |
|  |        | 25 | 0  | / | 17.68 | / | 19.00 |
|  |        | 25 | 13 | / | 17.71 | / | 19.00 |
|  |        | 25 | 25 | / | 17.67 | / | 19.00 |
|  |        | 50 | 0  | / | 17.30 | / | 19.00 |

| LTE FDD Band 30 Head For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                       |            |         |           | /                    | 27710   | /       |         |
| 5MHz                                  | QPSK       | 1       | 0         | /                    | 21.71   | /       | 23.00   |
|                                       |            | 1       | 13        | /                    | 21.61   | /       | 23.00   |
|                                       |            | 1       | 24        | /                    | 21.51   | /       | 23.00   |
|                                       |            | 12      | 0         | /                    | 21.72   | /       | 23.00   |
|                                       |            | 12      | 6         | /                    | 21.76   | /       | 23.00   |
|                                       |            | 12      | 13        | /                    | 21.68   | /       | 23.00   |
|                                       | 16QAM      | 25      | 0         | /                    | 21.76   | /       | 23.00   |
|                                       |            | 1       | 0         | /                    | 21.60   | /       | 23.00   |
|                                       |            | 1       | 13        | /                    | 21.53   | /       | 23.00   |
|                                       |            | 1       | 24        | /                    | 21.74   | /       | 23.00   |
|                                       |            | 12      | 0         | /                    | 20.61   | /       | 22.00   |
|                                       |            | 12      | 6         | /                    | 20.84   | /       | 22.00   |
|                                       | 64QAM      | 12      | 13        | /                    | 20.64   | /       | 22.00   |
|                                       |            | 25      | 0         | /                    | 20.60   | /       | 22.00   |
|                                       |            | 1       | 0         | /                    | 20.64   | /       | 22.00   |
|                                       |            | 1       | 13        | /                    | 20.61   | /       | 22.00   |
|                                       |            | 1       | 24        | /                    | 20.57   | /       | 22.00   |
|                                       |            | 12      | 0         | /                    | 19.72   | /       | 21.00   |
|                                       | 256QAM     | 12      | 6         | /                    | 19.60   | /       | 21.00   |
|                                       |            | 12      | 13        | /                    | 19.80   | /       | 21.00   |
|                                       |            | 25      | 0         | /                    | 19.77   | /       | 21.00   |
|                                       |            | 1       | 0         | /                    | 17.62   | /       | 19.00   |
|                                       |            | 1       | 13        | /                    | 17.62   | /       | 19.00   |
|                                       |            | 1       | 24        | /                    | 17.75   | /       | 19.00   |
| Bandwidth                             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                       |            |         |           | /                    | 27710   | /       |         |
| 10MHz                                 | QPSK       | 1       | 0         | /                    | 21.81   | /       | 23.00   |
|                                       |            | 1       | 25        | /                    | 21.65   | /       | 23.00   |
|                                       |            | 1       | 49        | /                    | 21.48   | /       | 23.00   |
|                                       |            | 25      | 0         | /                    | 21.73   | /       | 23.00   |
|                                       |            | 25      | 13        | /                    | 21.75   | /       | 23.00   |
|                                       |            | 25      | 25        | /                    | 21.61   | /       | 23.00   |
|                                       |            | 50      | 0         | /                    | 21.80   | /       | 23.00   |
|                                       | 16QAM      | 1       | 0         | /                    | 21.68   | /       | 23.00   |

|  |        |    |    |   |       |   |       |
|--|--------|----|----|---|-------|---|-------|
|  |        | 1  | 25 | / | 21.63 | / | 23.00 |
|  |        | 1  | 49 | / | 21.73 | / | 23.00 |
|  |        | 25 | 0  | / | 20.67 | / | 22.00 |
|  |        | 25 | 13 | / | 20.78 | / | 22.00 |
|  |        | 25 | 25 | / | 20.68 | / | 22.00 |
|  |        | 50 | 0  | / | 20.58 | / | 22.00 |
|  | 64QAM  | 1  | 0  | / | 20.68 | / | 22.00 |
|  |        | 1  | 25 | / | 20.61 | / | 22.00 |
|  |        | 1  | 49 | / | 20.56 | / | 22.00 |
|  |        | 25 | 0  | / | 19.62 | / | 21.00 |
|  |        | 25 | 13 | / | 19.68 | / | 21.00 |
|  |        | 25 | 25 | / | 19.72 | / | 21.00 |
|  | 256QAM | 50 | 0  | / | 19.71 | / | 21.00 |
|  |        | 1  | 0  | / | 17.65 | / | 19.00 |
|  |        | 1  | 25 | / | 17.65 | / | 19.00 |
|  |        | 1  | 49 | / | 17.72 | / | 19.00 |
|  |        | 25 | 0  | / | 17.68 | / | 19.00 |
|  |        | 25 | 13 | / | 17.79 | / | 19.00 |
|  |        | 25 | 25 | / | 17.64 | / | 19.00 |
|  |        | 50 | 0  | / | 17.31 | / | 19.00 |

| LTE FDD Band 30 Body worn For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                       | QPSK       | 1       | 0         | /                    | 27710   | /       |         |
|                                            |            | 1       | 13        | /                    | 19.29   | /       | 20.50   |
|                                            |            | 1       | 24        | /                    | 19.30   | /       | 20.50   |
|                                            |            | 12      | 0         | /                    | 18.90   | /       | 20.50   |
|                                            |            | 12      | 6         | /                    | 19.14   | /       | 20.50   |
|                                            |            | 12      | 13        | /                    | 19.23   | /       | 20.50   |
|                                            | 16QAM      | 12      | 13        | /                    | 18.99   | /       | 20.50   |
|                                            |            | 25      | 0         | /                    | 19.29   | /       | 20.50   |
|                                            |            | 1       | 0         | /                    | 19.17   | /       | 20.50   |
|                                            |            | 1       | 13        | /                    | 19.09   | /       | 20.50   |
|                                            |            | 1       | 24        | /                    | 19.28   | /       | 20.50   |
|                                            |            | 12      | 0         | /                    | 19.26   | /       | 20.50   |
|                                            | 64QAM      | 12      | 6         | /                    | 19.26   | /       | 20.50   |
|                                            |            | 12      | 13        | /                    | 19.16   | /       | 20.50   |
|                                            |            | 25      | 0         | /                    | 19.03   | /       | 20.50   |
|                                            |            | 1       | 0         | /                    | 19.11   | /       | 20.50   |
|                                            |            | 1       | 13        | /                    | 19.17   | /       | 20.50   |
|                                            |            | 1       | 24        | /                    | 18.97   | /       | 20.50   |
|                                            | 256QAM     | 12      | 0         | /                    | 19.10   | /       | 20.50   |
|                                            |            | 12      | 6         | /                    | 19.21   | /       | 20.50   |
|                                            |            | 12      | 13        | /                    | 19.17   | /       | 20.50   |
|                                            |            | 25      | 0         | /                    | 19.26   | /       | 20.50   |
|                                            |            | 1       | 0         | /                    | 17.75   | /       | 19.00   |
|                                            |            | 1       | 13        | /                    | 17.85   | /       | 19.00   |
|                                            |            | 1       | 24        | /                    | 17.81   | /       | 19.00   |
|                                            |            | 12      | 0         | /                    | 17.65   | /       | 19.00   |
|                                            |            | 12      | 6         | /                    | 17.84   | /       | 19.00   |
|                                            |            | 12      | 13        | /                    | 17.54   | /       | 19.00   |
|                                            |            | 25      | 0         | /                    | 17.19   | /       | 19.00   |
| Bandwidth                                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                                      | QPSK       | 1       | 0         | /                    | 27710   | /       |         |
|                                            |            | 1       | 25        | /                    | 19.30   | /       | 20.50   |
|                                            |            | 1       | 49        | /                    | 19.23   | /       | 20.50   |
|                                            |            | 25      | 0         | /                    | 18.98   | /       | 20.50   |
|                                            |            | 25      | 13        | /                    | 19.22   | /       | 20.50   |
|                                            |            | 25      | 25        | /                    | 19.29   | /       | 20.50   |
|                                            | 16QAM      | 25      | 0         | /                    | 19.09   | /       | 20.50   |
|                                            |            | 50      | 0         | /                    | 19.25   | /       | 20.50   |
|                                            |            | 1       | 0         | /                    | 19.26   | /       | 20.50   |
|                                            |            | 1       | 25        | /                    | 19.14   | /       | 20.50   |
|                                            |            | 1       | 49        | /                    | 19.28   | /       | 20.50   |
|                                            |            | 25      | 0         | /                    | 19.24   | /       | 20.50   |
|                                            |            | 25      | 13        | /                    | 19.26   | /       | 20.50   |
|                                            |            | 25      | 25        | /                    | 19.14   | /       | 20.50   |
|                                            |            | 50      | 0         | /                    | 19.05   | /       | 20.50   |

|  |        |    |    |   |       |   |       |
|--|--------|----|----|---|-------|---|-------|
|  | 64QAM  | 1  | 0  | / | 19.13 | / | 20.50 |
|  |        | 1  | 25 | / | 19.12 | / | 20.50 |
|  |        | 1  | 49 | / | 19.05 | / | 20.50 |
|  |        | 25 | 0  | / | 19.12 | / | 20.50 |
|  |        | 25 | 13 | / | 19.23 | / | 20.50 |
|  |        | 25 | 25 | / | 19.25 | / | 20.50 |
|  | 256QAM | 50 | 0  | / | 19.18 | / | 20.50 |
|  |        | 1  | 0  | / | 17.69 | / | 19.00 |
|  |        | 1  | 25 | / | 17.75 | / | 19.00 |
|  |        | 1  | 49 | / | 17.81 | / | 19.00 |
|  |        | 25 | 0  | / | 17.73 | / | 19.00 |
|  |        | 25 | 13 | / | 17.85 | / | 19.00 |
|  |        | 25 | 25 | / | 17.61 | / | 19.00 |
|  |        | 50 | 0  | / | 17.28 | / | 19.00 |

| LTE Band 66 full power/Head |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                      | QPSK       | 1       | 0         | 23.17                | 23.51   | 23.33   | 25.00   |
|                             |            | 1       | 2         | 23.25                | 23.31   | 23.11   | 25.00   |
|                             |            | 1       | 5         | 23.22                | 23.33   | 23.40   | 25.00   |
|                             |            | 3       | 0         | 23.22                | 23.07   | 23.44   | 25.00   |
|                             |            | 3       | 1         | 23.09                | 23.40   | 23.28   | 25.00   |
|                             |            | 3       | 3         | 23.23                | 23.34   | 23.14   | 25.00   |
|                             | 16QAM      | 6       | 0         | 22.28                | 22.29   | 22.04   | 24.00   |
|                             |            | 1       | 0         | 22.20                | 22.25   | 22.07   | 24.00   |
|                             |            | 1       | 2         | 22.23                | 22.34   | 22.11   | 24.00   |
|                             |            | 1       | 5         | 22.14                | 22.26   | 22.30   | 24.00   |
|                             |            | 3       | 0         | 22.57                | 22.35   | 22.03   | 24.00   |
|                             |            | 3       | 1         | 22.34                | 22.23   | 22.11   | 24.00   |
|                             | 64QAM      | 3       | 3         | 22.27                | 22.36   | 22.44   | 24.00   |
|                             |            | 6       | 0         | 21.33                | 21.19   | 21.39   | 23.00   |
|                             |            | 1       | 0         | 21.06                | 21.57   | 21.19   | 23.00   |
|                             |            | 1       | 2         | 21.29                | 21.17   | 21.14   | 23.00   |
|                             |            | 1       | 5         | 21.53                | 21.23   | 21.35   | 23.00   |
|                             |            | 3       | 0         | 21.09                | 21.30   | 21.29   | 23.00   |
|                             | 256QAM     | 3       | 1         | 21.15                | 21.30   | 21.39   | 23.00   |
|                             |            | 3       | 3         | 21.33                | 21.46   | 21.44   | 23.00   |
|                             |            | 6       | 0         | 20.14                | 20.32   | 20.24   | 22.00   |
|                             |            | 1       | 0         | 18.32                | 18.18   | 18.51   | 20.00   |
|                             |            | 1       | 2         | 18.15                | 18.08   | 18.48   | 20.00   |
|                             |            | 1       | 5         | 18.34                | 18.26   | 18.05   | 20.00   |
| 3MHz                        | QPSK       | 3       | 0         | 18.38                | 18.04   | 18.29   | 20.00   |
|                             |            | 3       | 1         | 18.05                | 18.50   | 18.30   | 20.00   |
|                             |            | 3       | 3         | 18.23                | 18.06   | 18.34   | 20.00   |
|                             |            | 6       | 0         | 18.38                | 18.00   | 18.19   | 20.00   |
|                             | 16QAM      | 1       | 0         | 23.23                | 23.45   | 23.29   | 25.00   |
|                             |            | 1       | 7         | 23.25                | 23.31   | 23.08   | 25.00   |
|                             |            | 1       | 14        | 23.32                | 23.40   | 23.54   | 25.00   |
|                             |            | 8       | 0         | 22.23                | 22.16   | 22.34   | 24.00   |
|                             |            | 8       | 4         | 22.09                | 22.37   | 22.27   | 24.00   |
|                             |            | 8       | 7         | 22.23                | 22.27   | 22.18   | 24.00   |
|                             | 64QAM      | 15      | 0         | 22.23                | 22.31   | 22.04   | 24.00   |
|                             |            | 1       | 0         | 22.13                | 22.24   | 22.05   | 24.00   |
|                             |            | 1       | 7         | 22.29                | 22.24   | 22.31   | 24.00   |
|                             |            | 1       | 14        | 22.05                | 22.36   | 22.21   | 24.00   |
|                             |            | 8       | 0         | 21.48                | 21.35   | 21.10   | 23.00   |
|                             |            | 8       | 4         | 21.32                | 21.28   | 21.04   | 23.00   |
|                             | 256QAM     | 8       | 7         | 21.37                | 21.40   | 21.34   | 23.00   |
|                             |            | 15      | 0         | 21.42                | 21.18   | 21.31   | 23.00   |
|                             |            | 1       | 0         | 21.01                | 21.47   | 21.27   | 23.00   |
|                             |            | 1       | 7         | 21.34                | 21.27   | 21.19   | 23.00   |
|                             |            | 1       | 14        | 21.43                | 21.22   | 21.42   | 23.00   |
|                             |            | 8       | 0         | 20.08                | 20.27   | 20.33   | 22.00   |
|                             | QPSK       | 8       | 4         | 20.08                | 20.32   | 20.33   | 22.00   |
|                             |            | 8       | 7         | 20.23                | 20.39   | 20.44   | 22.00   |

|           |            | 15      | 0         | 20.13   | 20.38   | 20.20   | 22.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 256QAM     | 1       | 0         | 18.22   | 18.23   | 18.45   | 20.00   |
|           |            | 1       | 7         | 18.09   | 18.18   | 18.49   | 20.00   |
|           |            | 1       | 14        | 18.25   | 18.21   | 18.13   | 20.00   |
|           |            | 8       | 0         | 18.38   | 18.10   | 18.26   | 20.00   |
|           |            | 8       | 4         | 18.03   | 18.43   | 18.29   | 20.00   |
|           |            | 8       | 7         | 18.31   | 18.20   | 18.31   | 20.00   |
|           |            | 15      | 0         | 18.45   | 18.09   | 18.26   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 23.15   | 23.43   | 23.31   | 25.00   |
|           |            | 1       | 13        | 23.25   | 23.41   | 23.18   | 25.00   |
|           |            | 1       | 24        | 23.24   | 23.43   | 23.58   | 25.00   |
|           |            | 12      | 0         | 22.28   | 22.24   | 22.28   | 24.00   |
|           |            | 12      | 6         | 22.15   | 22.33   | 22.26   | 24.00   |
|           |            | 12      | 13        | 22.30   | 22.21   | 22.27   | 24.00   |
|           |            | 25      | 0         | 22.27   | 22.37   | 22.13   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.23   | 22.32   | 22.11   | 24.00   |
|           |            | 1       | 13        | 22.34   | 22.23   | 22.09   | 24.00   |
|           |            | 1       | 24        | 22.11   | 22.33   | 22.17   | 24.00   |
|           |            | 12      | 0         | 21.40   | 21.25   | 21.19   | 23.00   |
|           |            | 12      | 6         | 21.32   | 21.35   | 21.12   | 23.00   |
|           |            | 12      | 13        | 21.35   | 21.41   | 21.38   | 23.00   |
|           |            | 25      | 0         | 21.40   | 21.20   | 21.26   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.06   | 21.47   | 21.26   | 23.00   |
|           |            | 1       | 13        | 21.27   | 21.25   | 21.22   | 23.00   |
|           |            | 1       | 24        | 21.46   | 21.18   | 21.42   | 23.00   |
|           |            | 12      | 0         | 20.13   | 20.35   | 20.26   | 22.00   |
|           |            | 12      | 6         | 20.18   | 20.25   | 20.33   | 22.00   |
|           |            | 12      | 13        | 20.28   | 20.40   | 20.36   | 22.00   |
|           |            | 25      | 0         | 20.13   | 20.36   | 20.30   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.26   | 18.28   | 18.48   | 20.00   |
|           |            | 1       | 13        | 18.10   | 18.28   | 18.40   | 20.00   |
|           |            | 1       | 24        | 18.32   | 18.21   | 18.16   | 20.00   |
|           |            | 12      | 0         | 18.42   | 18.14   | 18.33   | 20.00   |
|           |            | 12      | 6         | 18.05   | 18.36   | 18.35   | 20.00   |
|           |            | 12      | 13        | 18.25   | 18.04   | 18.35   | 20.00   |
|           |            | 25      | 0         | 18.44   | 18.12   | 18.35   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132022  | 132322  | 132622  |         |
| 10MHz     | QPSK       | 1       | 0         | 23.16   | 23.35   | 23.28   | 25.00   |
|           |            | 1       | 25        | 23.31   | 23.31   | 23.08   | 25.00   |
|           |            | 1       | 49        | 23.32   | 23.33   | 23.51   | 25.00   |
|           |            | 25      | 0         | 22.18   | 22.34   | 22.23   | 24.00   |
|           |            | 25      | 13        | 22.16   | 22.34   | 22.27   | 24.00   |
|           |            | 25      | 25        | 22.27   | 22.20   | 22.27   | 24.00   |
|           |            | 50      | 0         | 22.37   | 22.32   | 22.09   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.29   | 22.30   | 22.21   | 24.00   |
|           |            | 1       | 25        | 22.35   | 22.32   | 22.18   | 24.00   |
|           |            | 1       | 49        | 22.17   | 22.29   | 22.24   | 24.00   |
|           |            | 25      | 0         | 21.37   | 21.18   | 21.26   | 23.00   |
|           |            | 25      | 13        | 21.37   | 21.44   | 21.19   | 23.00   |
|           |            | 25      | 25        | 21.42   | 21.35   | 21.29   | 23.00   |
|           |            | 50      | 0         | 21.39   | 21.22   | 21.36   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.13   | 21.41   | 21.21   | 23.00   |
|           |            | 1       | 25        | 21.34   | 21.19   | 21.28   | 23.00   |
|           |            | 1       | 49        | 21.48   | 21.19   | 21.35   | 23.00   |
|           |            | 25      | 0         | 20.22   | 20.41   | 20.26   | 22.00   |
|           |            | 25      | 13        | 20.24   | 20.31   | 20.25   | 22.00   |
|           |            | 25      | 25        | 20.36   | 20.32   | 20.43   | 22.00   |
|           |            | 50      | 0         | 20.22   | 20.29   | 20.22   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.19   | 18.26   | 18.40   | 20.00   |
|           |            | 1       | 25        | 18.20   | 18.24   | 18.38   | 20.00   |
|           |            | 1       | 49        | 18.24   | 18.20   | 18.11   | 20.00   |
|           |            | 25      | 0         | 18.34   | 18.19   | 18.37   | 20.00   |
|           |            | 25      | 13        | 18.12   | 18.29   | 18.26   | 20.00   |
|           |            | 25      | 25        | 18.23   | 18.14   | 18.39   | 20.00   |
|           |            | 50      | 0         | 18.40   | 18.16   | 18.27   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |

|                               |            |         |           |         |         |         |         |
|-------------------------------|------------|---------|-----------|---------|---------|---------|---------|
| 15MHz                         | QPSK       | 1       | 0         | 23.20   | 23.38   | 23.25   | 25.00   |
|                               |            | 1       | 38        | 23.33   | 23.29   | 23.18   | 25.00   |
|                               |            | 1       | 74        | 23.35   | 23.28   | 23.42   | 25.00   |
|                               |            | 36      | 0         | 22.23   | 22.28   | 22.16   | 24.00   |
|                               |            | 36      | 18        | 22.26   | 22.42   | 22.36   | 24.00   |
|                               |            | 36      | 39        | 22.34   | 22.23   | 22.19   | 24.00   |
|                               | 16QAM      | 75      | 0         | 22.34   | 22.29   | 22.16   | 24.00   |
|                               |            | 1       | 0         | 22.35   | 22.21   | 22.23   | 24.00   |
|                               |            | 1       | 38        | 22.29   | 22.34   | 22.16   | 24.00   |
|                               |            | 1       | 74        | 22.26   | 22.38   | 22.24   | 24.00   |
|                               |            | 36      | 0         | 21.30   | 21.18   | 21.30   | 23.00   |
|                               |            | 36      | 18        | 21.38   | 21.36   | 21.22   | 23.00   |
|                               | 64QAM      | 36      | 39        | 21.39   | 21.30   | 21.32   | 23.00   |
|                               |            | 75      | 0         | 21.38   | 21.26   | 21.34   | 23.00   |
|                               |            | 1       | 0         | 21.23   | 21.40   | 21.17   | 23.00   |
|                               |            | 1       | 38        | 21.36   | 21.24   | 21.25   | 23.00   |
|                               |            | 1       | 74        | 21.39   | 21.26   | 21.29   | 23.00   |
|                               |            | 36      | 0         | 20.22   | 20.38   | 20.33   | 22.00   |
|                               | 256QAM     | 36      | 18        | 20.31   | 20.23   | 20.21   | 22.00   |
|                               |            | 36      | 39        | 20.37   | 20.37   | 20.37   | 22.00   |
|                               |            | 75      | 0         | 20.22   | 20.30   | 20.21   | 22.00   |
|                               |            | 1       | 0         | 18.23   | 18.28   | 18.46   | 20.00   |
|                               |            | 1       | 38        | 18.30   | 18.31   | 18.39   | 20.00   |
|                               |            | 1       | 74        | 18.34   | 18.30   | 18.19   | 20.00   |
| Bandwidth                     | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|                               |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz                         | QPSK       | 1       | 0         | 23.46   | 23.61   | 23.50   | 25.00   |
|                               |            | 1       | 50        | 23.54   | 23.49   | 23.44   | 25.00   |
|                               |            | 1       | 99        | 23.57   | 23.55   | 23.56   | 25.00   |
|                               |            | 50      | 0         | 22.50   | 22.51   | 22.49   | 24.00   |
|                               |            | 50      | 25        | 22.58   | 22.58   | 22.53   | 24.00   |
|                               |            | 50      | 50        | 22.58   | 22.50   | 22.53   | 24.00   |
|                               | 16QAM      | 100     | 0         | 22.52   | 22.61   | 22.48   | 24.00   |
|                               |            | 1       | 0         | 22.49   | 22.47   | 22.55   | 24.00   |
|                               |            | 1       | 50        | 22.55   | 22.59   | 22.47   | 24.00   |
|                               |            | 1       | 99        | 22.55   | 22.52   | 22.54   | 24.00   |
|                               |            | 50      | 0         | 21.51   | 21.51   | 21.56   | 23.00   |
|                               |            | 50      | 25        | 21.57   | 21.54   | 21.55   | 23.00   |
|                               | 64QAM      | 50      | 50        | 21.53   | 21.57   | 21.57   | 23.00   |
|                               |            | 100     | 0         | 21.55   | 21.53   | 21.54   | 23.00   |
|                               |            | 1       | 0         | 21.51   | 21.55   | 21.47   | 23.00   |
|                               |            | 1       | 50        | 21.53   | 21.46   | 21.59   | 23.00   |
|                               |            | 1       | 99        | 21.54   | 21.50   | 21.50   | 23.00   |
|                               |            | 50      | 0         | 20.50   | 20.57   | 20.54   | 22.00   |
|                               | 256QAM     | 50      | 25        | 20.51   | 20.52   | 20.51   | 22.00   |
|                               |            | 50      | 50        | 20.56   | 20.54   | 20.57   | 22.00   |
|                               |            | 100     | 0         | 20.54   | 20.50   | 20.51   | 22.00   |
|                               |            | 1       | 0         | 18.56   | 18.49   | 18.61   | 20.00   |
|                               |            | 1       | 50        | 18.49   | 18.46   | 18.57   | 20.00   |
|                               |            | 1       | 99        | 18.55   | 18.53   | 18.49   | 20.00   |
| LTE Band 66 Body worn/Hotspot |            | RB size | RB offset | Channel | Channel | Channel | Tune up |
|                               |            |         |           | 131979  | 132322  | 132665  |         |
| 1.4MHz                        | QPSK       | 1       | 0         | 22.84   | 22.78   | 22.63   | 24.50   |
|                               |            | 1       | 2         | 22.59   | 22.60   | 22.56   | 24.50   |
|                               |            | 1       | 5         | 22.54   | 22.67   | 22.57   | 24.50   |
|                               |            | 3       | 0         | 22.90   | 23.00   | 22.83   | 24.50   |
|                               |            | 3       | 1         | 23.01   | 22.71   | 22.73   | 24.50   |
|                               |            | 3       | 3         | 22.84   | 22.82   | 22.78   | 24.50   |

|           | 16QAM      | 6       | 0         | 22.22   | 22.37   | 22.26   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 22.31   | 22.13   | 22.16   | 24.00   |
|           |            | 1       | 2         | 22.34   | 22.32   | 22.14   | 24.00   |
|           |            | 1       | 5         | 22.26   | 22.22   | 22.03   | 24.00   |
|           |            | 3       | 0         | 22.14   | 22.39   | 22.38   | 24.00   |
|           |            | 3       | 1         | 22.35   | 22.25   | 22.36   | 24.00   |
|           |            | 3       | 3         | 22.22   | 22.56   | 22.12   | 24.00   |
|           | 64QAM      | 6       | 0         | 21.17   | 21.45   | 21.46   | 23.00   |
|           |            | 1       | 0         | 21.28   | 21.14   | 21.39   | 23.00   |
|           |            | 1       | 2         | 21.42   | 21.16   | 21.30   | 23.00   |
|           |            | 1       | 5         | 21.43   | 21.40   | 21.14   | 23.00   |
|           |            | 3       | 0         | 21.36   | 21.30   | 21.14   | 23.00   |
|           |            | 3       | 1         | 21.34   | 21.20   | 21.30   | 23.00   |
|           |            | 3       | 3         | 21.28   | 21.24   | 21.47   | 23.00   |
|           | 256QAM     | 6       | 0         | 20.37   | 20.20   | 20.29   | 22.00   |
|           |            | 1       | 0         | 18.15   | 18.34   | 18.40   | 20.00   |
|           |            | 1       | 2         | 18.09   | 18.25   | 18.30   | 20.00   |
|           |            | 1       | 5         | 18.21   | 18.15   | 18.21   | 20.00   |
|           |            | 3       | 0         | 18.22   | 18.25   | 18.44   | 20.00   |
|           |            | 3       | 1         | 18.46   | 18.27   | 18.11   | 20.00   |
|           |            | 3       | 3         | 18.39   | 18.19   | 18.19   | 20.00   |
|           |            | 6       | 0         | 18.25   | 18.29   | 18.05   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131987  | 132322  | 132657  |         |
| 3MHz      | QPSK       | 1       | 0         | 22.87   | 22.72   | 22.55   | 24.50   |
|           |            | 1       | 7         | 22.54   | 22.55   | 22.53   | 24.50   |
|           |            | 1       | 14        | 22.58   | 22.70   | 22.62   | 24.50   |
|           |            | 8       | 0         | 22.42   | 22.45   | 22.25   | 24.00   |
|           |            | 8       | 4         | 22.43   | 22.25   | 22.26   | 24.00   |
|           |            | 8       | 7         | 22.31   | 22.32   | 22.31   | 24.00   |
|           |            | 15      | 0         | 22.17   | 22.39   | 22.28   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.36   | 22.08   | 22.25   | 24.00   |
|           |            | 1       | 7         | 22.43   | 22.23   | 22.23   | 24.00   |
|           |            | 1       | 14        | 22.33   | 22.29   | 22.13   | 24.00   |
|           |            | 8       | 0         | 21.08   | 21.32   | 21.38   | 23.00   |
|           |            | 8       | 4         | 21.43   | 21.25   | 21.39   | 23.00   |
|           |            | 8       | 7         | 21.23   | 21.51   | 21.09   | 23.00   |
|           |            | 15      | 0         | 21.20   | 21.41   | 21.42   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.33   | 21.00   | 21.36   | 23.00   |
|           |            | 1       | 7         | 21.41   | 21.26   | 21.35   | 23.00   |
|           |            | 1       | 14        | 21.49   | 21.37   | 21.22   | 23.00   |
|           |            | 8       | 0         | 20.34   | 20.23   | 20.23   | 22.00   |
|           |            | 8       | 4         | 20.35   | 20.18   | 20.31   | 22.00   |
|           |            | 8       | 7         | 20.31   | 20.21   | 20.37   | 22.00   |
|           |            | 15      | 0         | 20.34   | 20.12   | 20.20   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.19   | 18.31   | 18.42   | 20.00   |
|           |            | 1       | 7         | 18.11   | 18.15   | 18.34   | 20.00   |
|           |            | 1       | 14        | 18.25   | 18.24   | 18.28   | 20.00   |
|           |            | 8       | 0         | 18.25   | 18.17   | 18.37   | 20.00   |
|           |            | 8       | 4         | 18.40   | 18.37   | 18.15   | 20.00   |
|           |            | 8       | 7         | 18.43   | 18.12   | 18.22   | 20.00   |
|           |            | 15      | 0         | 18.35   | 18.36   | 18.01   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 131997  | 132322  | 132647  |         |
| 5MHz      | QPSK       | 1       | 0         | 22.78   | 22.77   | 22.63   | 24.50   |
|           |            | 1       | 13        | 22.56   | 22.61   | 22.51   | 24.50   |
|           |            | 1       | 24        | 22.57   | 22.69   | 22.65   | 24.50   |
|           |            | 12      | 0         | 22.32   | 22.41   | 22.23   | 24.00   |
|           |            | 12      | 6         | 22.35   | 22.20   | 22.35   | 24.00   |
|           |            | 12      | 13        | 22.29   | 22.22   | 22.35   | 24.00   |
|           |            | 25      | 0         | 22.14   | 22.33   | 22.22   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.40   | 22.16   | 22.19   | 24.00   |
|           |            | 1       | 13        | 22.38   | 22.20   | 22.27   | 24.00   |
|           |            | 1       | 24        | 22.42   | 22.39   | 22.17   | 24.00   |
|           |            | 12      | 0         | 21.14   | 21.31   | 21.30   | 23.00   |
|           |            | 12      | 6         | 21.39   | 21.26   | 21.39   | 23.00   |
|           |            | 12      | 13        | 21.22   | 21.52   | 21.15   | 23.00   |
|           |            | 25      | 0         | 21.24   | 21.38   | 21.37   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.37   | 21.10   | 21.30   | 23.00   |
|           |            | 1       | 13        | 21.44   | 21.19   | 21.44   | 23.00   |

|                  |                   |                |                  |                |                |                |                |
|------------------|-------------------|----------------|------------------|----------------|----------------|----------------|----------------|
|                  |                   | 1              | 24               | 21.43          | 21.27          | 21.26          | 23.00          |
|                  |                   | 12             | 0                | 20.28          | 20.28          | 20.21          | 22.00          |
|                  |                   | 12             | 6                | 20.32          | 20.17          | 20.27          | 22.00          |
|                  |                   | 12             | 13               | 20.32          | 20.31          | 20.38          | 22.00          |
|                  |                   | 25             | 0                | 20.26          | 20.17          | 20.15          | 22.00          |
|                  | 256QAM            | 1              | 0                | 18.25          | 18.33          | 18.40          | 20.00          |
|                  |                   | 1              | 13               | 18.07          | 18.24          | 18.32          | 20.00          |
|                  |                   | 1              | 24               | 18.19          | 18.16          | 18.30          | 20.00          |
|                  |                   | 12             | 0                | 18.21          | 18.19          | 18.45          | 20.00          |
|                  |                   | 12             | 6                | 18.33          | 18.35          | 18.16          | 20.00          |
|                  |                   | 12             | 13               | 18.34          | 18.08          | 18.29          | 20.00          |
|                  |                   | 25             | 0                | 18.34          | 18.34          | 18.11          | 20.00          |
|                  |                   |                |                  |                |                |                |                |
|                  |                   |                |                  |                |                |                |                |
|                  |                   |                |                  |                |                |                |                |
|                  |                   |                |                  |                |                |                |                |
|                  |                   |                |                  |                |                |                |                |
|                  |                   |                |                  |                |                |                |                |
| <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> |
|                  |                   |                |                  | 132022         | 132322         | 132622         |                |
| <b>10MHz</b>     | QPSK              | 1              | 0                | 22.86          | 22.74          | 22.72          | 24.50          |
|                  |                   | 1              | 25               | 22.59          | 22.64          | 22.56          | 24.50          |
|                  |                   | 1              | 49               | 22.65          | 22.64          | 22.64          | 24.50          |
|                  |                   | 25             | 0                | 22.31          | 22.31          | 22.25          | 24.00          |
|                  |                   | 25             | 13               | 22.25          | 22.30          | 22.31          | 24.00          |
|                  |                   | 25             | 25               | 22.24          | 22.24          | 22.29          | 24.00          |
|                  | 16QAM             | 50             | 0                | 22.22          | 22.25          | 22.20          | 24.00          |
|                  |                   | 1              | 0                | 22.33          | 22.24          | 22.16          | 24.00          |
|                  |                   | 1              | 25               | 22.35          | 22.27          | 22.26          | 24.00          |
|                  |                   | 1              | 49               | 22.42          | 22.39          | 22.17          | 24.00          |
|                  |                   | 25             | 0                | 21.19          | 21.38          | 21.27          | 23.00          |
|                  |                   | 25             | 13               | 21.33          | 21.27          | 21.42          | 23.00          |
|                  | 64QAM             | 25             | 25               | 21.28          | 21.43          | 21.25          | 23.00          |
|                  |                   | 50             | 0                | 21.28          | 21.31          | 21.28          | 23.00          |
|                  |                   | 1              | 0                | 21.27          | 21.20          | 21.23          | 23.00          |
|                  |                   | 1              | 25               | 21.45          | 21.25          | 21.40          | 23.00          |
|                  |                   | 1              | 49               | 21.33          | 21.37          | 21.28          | 23.00          |
|                  |                   | 25             | 0                | 20.37          | 20.29          | 20.25          | 22.00          |
|                  | 256QAM            | 25             | 13               | 20.30          | 20.26          | 20.37          | 22.00          |
|                  |                   | 25             | 25               | 20.34          | 20.27          | 20.42          | 22.00          |
|                  |                   | 50             | 0                | 20.19          | 20.21          | 20.17          | 22.00          |
|                  |                   | 1              | 0                | 18.29          | 18.30          | 18.37          | 20.00          |
|                  |                   | 1              | 25               | 18.10          | 18.21          | 18.34          | 20.00          |
|                  |                   | 1              | 49               | 18.27          | 18.26          | 18.28          | 20.00          |
| <b>15MHz</b>     | QPSK              | 25             | 0                | 18.14          | 18.28          | 18.39          | 20.00          |
|                  |                   | 25             | 13               | 18.32          | 18.34          | 18.14          | 20.00          |
|                  |                   | 25             | 25               | 18.36          | 18.16          | 18.27          | 20.00          |
|                  |                   | 50             | 0                | 18.37          | 18.35          | 18.13          | 20.00          |
|                  |                   |                |                  |                |                |                |                |
|                  |                   |                |                  |                |                |                |                |
|                  | 16QAM             | 1              | 0                | 22.77          | 22.73          | 22.70          | 24.50          |
|                  |                   | 1              | 38               | 22.65          | 22.65          | 22.65          | 24.50          |
|                  |                   | 1              | 74               | 22.66          | 22.69          | 22.73          | 24.50          |
|                  |                   | 36             | 0                | 22.29          | 22.37          | 22.18          | 24.00          |
|                  |                   | 36             | 18               | 22.29          | 22.39          | 22.39          | 24.00          |
|                  |                   | 36             | 39               | 22.32          | 22.26          | 22.39          | 24.00          |
|                  | 64QAM             | 75             | 0                | 22.23          | 22.28          | 22.16          | 24.00          |
|                  |                   | 1              | 0                | 22.24          | 22.20          | 22.24          | 24.00          |
|                  |                   | 1              | 38               | 22.41          | 22.26          | 22.16          | 24.00          |
|                  |                   | 1              | 74               | 22.37          | 22.32          | 22.26          | 24.00          |
|                  |                   | 36             | 0                | 21.25          | 21.31          | 21.27          | 23.00          |
|                  |                   | 36             | 18               | 21.33          | 21.32          | 21.36          | 23.00          |
|                  | 256QAM            | 36             | 39               | 21.35          | 21.36          | 21.28          | 23.00          |
|                  |                   | 75             | 0                | 21.25          | 21.25          | 21.32          | 23.00          |
|                  |                   | 1              | 0                | 21.30          | 21.21          | 21.19          | 23.00          |
|                  |                   | 1              | 38               | 21.36          | 21.30          | 21.32          | 23.00          |
|                  |                   | 1              | 74               | 21.32          | 21.29          | 21.23          | 23.00          |
|                  |                   | 36             | 0                | 20.29          | 20.27          | 20.26          | 22.00          |
|                  | QPSK              | 36             | 18               | 20.22          | 20.36          | 20.30          | 22.00          |
|                  |                   | 36             | 39               | 20.27          | 20.22          | 20.35          | 22.00          |
|                  |                   | 75             | 0                | 20.22          | 20.20          | 20.21          | 22.00          |
|                  | 16QAM             | 1              | 0                | 18.36          | 18.34          | 18.46          | 20.00          |
|                  |                   | 1              | 38               | 18.19          | 18.18          | 18.27          | 20.00          |
|                  |                   | 1              | 74               | 18.26          | 18.16          | 18.28          | 20.00          |
|                  | 64QAM             | 36             | 0                | 18.24          | 18.29          | 18.36          | 20.00          |
|                  |                   | 36             | 18               | 18.28          | 18.38          | 18.17          | 20.00          |
|                  |                   |                |                  |                |                |                |                |
|                  |                   |                |                  |                |                |                |                |
| <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> |
|                  |                   |                |                  | 132047         | 132322         | 132597         |                |
| <b>15MHz</b>     | QPSK              | 1              | 0                | 22.77          | 22.73          | 22.70          | 24.50          |
|                  |                   | 1              | 38               | 22.65          | 22.65          | 22.65          | 24.50          |
|                  |                   | 1              | 74               | 22.66          | 22.69          | 22.73          | 24.50          |
|                  |                   | 36             | 0                | 22.29          | 22.37          | 22.18          | 24.00          |
|                  |                   | 36             | 18               | 22.29          | 22.39          | 22.39          | 24.00          |
|                  |                   | 36             | 39               | 22.32          | 22.26          | 22.39          | 24.00          |
|                  | 16QAM             | 75             | 0                | 22.23          | 22.28          | 22.16          | 24.00          |
|                  |                   | 1              | 0                | 22.24          | 22.20          | 22.24          | 24.00          |
|                  |                   | 1              | 38               | 22.41          | 22.26          | 22.16          | 24.00          |
|                  |                   | 1              | 74               | 22.37          | 22.32          | 22.26          | 24.00          |
|                  |                   | 36             | 0                | 21.25          | 21.31          | 21.27          | 23.00          |
|                  |                   | 36             | 18               | 21.33          | 21.32          | 21.36          | 23.00          |
|                  | 64QAM             | 36             | 39               | 21.35          | 21.36          | 21.28          | 23.00          |
|                  |                   | 75             | 0                | 21.25          | 21.25          | 21.32          | 23.00          |
|                  |                   | 1              | 0                | 21.30          | 21.21          | 21.19          | 23.00          |
|                  |                   | 1              | 38               | 21.36          | 21.30          | 21.32          | 23.00          |
|                  |                   | 1              | 74               | 21.32          | 21.29          | 21.23          | 23.00          |
|                  |                   | 36             | 0                | 20.29          | 20.27          | 20.26          | 22.00          |
|                  | 256QAM            | 36             | 18               | 20.22          | 20.36          | 20.30          | 22.00          |
|                  |                   | 36             | 39               | 20.27          | 20.22          | 20.35          | 22.00          |
|                  |                   | 75             | 0                | 20.22          | 20.20          | 20.21          | 22.00          |
|                  |                   | 1              | 0                | 18.36          | 18.34          | 18.46          | 20.00          |
|                  |                   | 1              | 38               | 18.19          | 18.18          | 18.27          | 20.00          |
|                  |                   | 1              | 74               | 18.26          | 18.16          | 18.28          | 20.00          |
|                  | 256QAM            | 36             | 0                | 18.24          | 18.29          | 18.36          | 20.00          |
|                  |                   | 36             | 18               | 18.28          | 18.38          | 18.17          | 20.00          |
|                  |                   |                |                  |                |                |                |                |
|                  |                   |                |                  |                |                |                |                |

|           |            | 36      | 39        | 18.28   | 18.18   | 18.31   | 20.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 75      | 0         | 18.28   | 18.37   | 18.20   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 23.13   | 23.24   | 23.19   | 24.50   |
|           |            | 1       | 50        | 23.21   | 23.16   | 23.17   | 24.50   |
|           |            | 1       | 99        | 23.10   | 23.08   | 23.13   | 24.50   |
|           |            | 50      | 0         | 22.73   | 22.75   | 22.74   | 24.00   |
|           |            | 50      | 25        | 22.77   | 22.75   | 22.76   | 24.00   |
|           |            | 50      | 50        | 22.81   | 22.73   | 22.76   | 24.00   |
|           |            | 100     | 0         | 22.72   | 22.83   | 22.66   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.71   | 22.70   | 22.75   | 24.00   |
|           |            | 1       | 50        | 22.78   | 22.78   | 22.66   | 24.00   |
|           |            | 1       | 99        | 22.75   | 22.71   | 22.78   | 24.00   |
|           |            | 50      | 0         | 21.69   | 21.72   | 21.81   | 23.00   |
|           |            | 50      | 25        | 21.74   | 21.78   | 21.73   | 23.00   |
|           |            | 50      | 50        | 21.75   | 21.74   | 21.80   | 23.00   |
|           |            | 100     | 0         | 21.77   | 21.76   | 21.75   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.75   | 21.76   | 21.69   | 23.00   |
|           |            | 1       | 50        | 21.76   | 21.68   | 21.79   | 23.00   |
|           |            | 1       | 99        | 21.76   | 21.74   | 21.68   | 23.00   |
|           |            | 50      | 0         | 20.70   | 20.76   | 20.72   | 22.00   |
|           |            | 50      | 25        | 20.70   | 20.72   | 20.70   | 22.00   |
|           |            | 50      | 50        | 20.79   | 20.74   | 20.81   | 22.00   |
|           |            | 100     | 0         | 20.78   | 20.72   | 20.74   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.73   | 18.74   | 18.84   | 20.00   |
|           |            | 1       | 50        | 18.70   | 18.70   | 18.76   | 20.00   |
|           |            | 1       | 99        | 18.77   | 18.70   | 18.73   | 20.00   |
|           |            | 50      | 0         | 18.80   | 18.68   | 18.75   | 20.00   |
|           |            | 50      | 25        | 18.68   | 18.77   | 18.71   | 20.00   |
|           |            | 50      | 50        | 18.69   | 18.70   | 18.81   | 20.00   |
|           |            | 100     | 0         | 18.52   | 18.53   | 18.54   | 20.00   |

| LTE Band 66 Body worn/Hotspot For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                      | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                |            |         |           | 131979               | 132322  | 132665  |         |
| 1.4MHz                                         | QPSK       | 1       | 0         | 20.35                | 20.42   | 20.40   | 21.50   |
|                                                |            | 1       | 2         | 20.41                | 20.52   | 20.07   | 21.50   |
|                                                |            | 1       | 5         | 20.35                | 20.02   | 20.06   | 21.50   |
|                                                |            | 3       | 0         | 20.41                | 20.41   | 20.27   | 21.50   |
|                                                |            | 3       | 1         | 20.20                | 20.39   | 20.18   | 21.50   |
|                                                |            | 3       | 3         | 20.39                | 20.38   | 20.18   | 21.50   |
|                                                |            | 6       | 0         | 20.24                | 19.98   | 20.47   | 21.50   |
|                                                | 16QAM      | 1       | 0         | 20.32                | 19.99   | 20.26   | 21.50   |
|                                                |            | 1       | 2         | 20.29                | 20.42   | 20.17   | 21.50   |
|                                                |            | 1       | 5         | 20.33                | 20.15   | 20.07   | 21.50   |
|                                                |            | 3       | 0         | 20.26                | 20.08   | 20.26   | 21.50   |
|                                                |            | 3       | 1         | 20.33                | 20.35   | 20.55   | 21.50   |
|                                                |            | 3       | 3         | 20.23                | 20.52   | 20.45   | 21.50   |
|                                                |            | 6       | 0         | 20.69                | 20.24   | 20.30   | 21.50   |
|                                                | 64QAM      | 1       | 0         | 20.14                | 20.44   | 20.10   | 21.50   |
|                                                |            | 1       | 2         | 20.11                | 20.31   | 19.91   | 21.50   |
|                                                |            | 1       | 5         | 20.37                | 20.31   | 20.37   | 21.50   |
|                                                |            | 3       | 0         | 20.22                | 20.12   | 20.08   | 21.50   |
|                                                |            | 3       | 1         | 20.20                | 20.31   | 20.15   | 21.50   |
|                                                |            | 3       | 3         | 20.16                | 20.51   | 20.41   | 21.50   |
|                                                |            | 6       | 0         | 20.09                | 20.20   | 20.21   | 21.50   |
|                                                | 256QAM     | 1       | 0         | 18.78                | 18.83   | 18.82   | 20.00   |
|                                                |            | 1       | 2         | 18.65                | 19.02   | 18.80   | 20.00   |
|                                                |            | 1       | 5         | 18.84                | 18.81   | 18.98   | 20.00   |
|                                                |            | 3       | 0         | 18.73                | 18.53   | 18.75   | 20.00   |
|                                                |            | 3       | 1         | 19.00                | 18.80   | 18.78   | 20.00   |
|                                                |            | 3       | 3         | 18.56                | 18.93   | 18.73   | 20.00   |
|                                                |            | 6       | 0         | 18.58                | 18.70   | 18.80   | 20.00   |
| Bandwidth                                      | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                                |            |         |           | 131987               | 132322  | 132657  |         |
| 3MHz                                           | QPSK       | 1       | 0         | 20.31                | 20.38   | 20.31   | 21.50   |
|                                                |            | 1       | 7         | 20.41                | 20.46   | 20.08   | 21.50   |

|       |        |    |    |       |       |       |       |
|-------|--------|----|----|-------|-------|-------|-------|
|       |        | 1  | 14 | 20.30 | 19.97 | 20.10 | 21.50 |
|       |        | 8  | 0  | 20.41 | 20.31 | 20.18 | 21.50 |
|       |        | 8  | 4  | 20.22 | 20.40 | 20.17 | 21.50 |
|       |        | 8  | 7  | 20.42 | 20.33 | 20.18 | 21.50 |
|       |        | 15 | 0  | 20.34 | 20.05 | 20.38 | 21.50 |
|       | 16QAM  | 1  | 0  | 20.38 | 20.00 | 20.19 | 21.50 |
|       |        | 1  | 7  | 20.21 | 20.35 | 20.09 | 21.50 |
|       |        | 1  | 14 | 20.24 | 20.22 | 19.99 | 21.50 |
|       |        | 8  | 0  | 20.22 | 20.10 | 20.30 | 21.50 |
|       |        | 8  | 4  | 20.29 | 20.38 | 20.50 | 21.50 |
|       | 64QAM  | 8  | 7  | 20.29 | 20.56 | 20.46 | 21.50 |
|       |        | 15 | 0  | 20.59 | 20.27 | 20.39 | 21.50 |
|       |        | 1  | 0  | 20.21 | 20.45 | 20.11 | 21.50 |
|       |        | 1  | 7  | 20.17 | 20.23 | 19.91 | 21.50 |
|       |        | 1  | 14 | 20.38 | 20.33 | 20.39 | 21.50 |
|       | 256QAM | 8  | 0  | 20.21 | 20.13 | 20.17 | 21.50 |
|       |        | 8  | 4  | 20.28 | 20.27 | 20.21 | 21.50 |
|       |        | 8  | 7  | 20.20 | 20.44 | 20.36 | 21.50 |
|       |        | 15 | 0  | 20.11 | 20.24 | 20.22 | 21.50 |
|       |        | 1  | 0  | 18.86 | 18.73 | 18.79 | 20.00 |
| 5MHz  | QPSK   | 1  | 7  | 18.61 | 18.97 | 18.72 | 20.00 |
|       |        | 1  | 14 | 18.89 | 18.84 | 18.97 | 20.00 |
|       |        | 8  | 0  | 18.68 | 18.60 | 18.69 | 20.00 |
|       |        | 8  | 4  | 18.95 | 18.87 | 18.83 | 20.00 |
|       |        | 8  | 7  | 18.60 | 18.90 | 18.68 | 20.00 |
|       | 16QAM  | 15 | 0  | 18.49 | 18.68 | 18.79 | 20.00 |
|       |        | 1  | 0  | 20.28 | 20.34 | 20.40 | 21.50 |
|       |        | 1  | 13 | 20.42 | 20.46 | 20.02 | 21.50 |
|       |        | 1  | 24 | 20.21 | 19.96 | 20.08 | 21.50 |
|       |        | 12 | 0  | 20.33 | 20.34 | 20.26 | 21.50 |
|       | 64QAM  | 12 | 6  | 20.20 | 20.40 | 20.23 | 21.50 |
|       |        | 12 | 13 | 20.37 | 20.29 | 20.18 | 21.50 |
|       |        | 25 | 0  | 20.41 | 20.15 | 20.33 | 21.50 |
|       |        | 1  | 0  | 20.40 | 20.04 | 20.13 | 21.50 |
|       |        | 1  | 13 | 20.20 | 20.44 | 20.12 | 21.50 |
|       | 256QAM | 1  | 24 | 20.30 | 20.29 | 20.06 | 21.50 |
|       |        | 12 | 0  | 20.25 | 20.13 | 20.40 | 21.50 |
|       |        | 12 | 6  | 20.32 | 20.32 | 20.48 | 21.50 |
|       |        | 12 | 13 | 20.38 | 20.54 | 20.42 | 21.50 |
|       |        | 25 | 0  | 20.50 | 20.20 | 20.34 | 21.50 |
| 10MHz | QPSK   | 1  | 0  | 20.30 | 20.44 | 20.21 | 21.50 |
|       |        | 1  | 13 | 20.09 | 20.31 | 20.01 | 21.50 |
|       |        | 1  | 24 | 20.33 | 20.29 | 20.36 | 21.50 |
|       |        | 12 | 0  | 20.13 | 20.22 | 20.26 | 21.50 |
|       |        | 12 | 6  | 20.26 | 20.28 | 20.30 | 21.50 |
|       | 16QAM  | 12 | 13 | 20.27 | 20.41 | 20.30 | 21.50 |
|       |        | 25 | 0  | 20.19 | 20.33 | 20.30 | 21.50 |
|       |        | 1  | 0  | 18.88 | 18.69 | 18.70 | 20.00 |
|       |        | 1  | 13 | 18.71 | 18.88 | 18.66 | 20.00 |
|       |        | 1  | 24 | 18.89 | 18.90 | 18.90 | 20.00 |
|       | 256QAM | 12 | 0  | 18.59 | 18.61 | 18.72 | 20.00 |
|       |        | 12 | 6  | 18.88 | 18.88 | 18.78 | 20.00 |
|       |        | 12 | 13 | 18.55 | 18.88 | 18.77 | 20.00 |
|       |        | 25 | 0  | 18.58 | 18.68 | 18.70 | 20.00 |
|       |        | 1  | 0  | 20.35 | 20.34 | 20.37 | 21.50 |
| 5MHz  | QPSK   | 1  | 25 | 20.33 | 20.37 | 20.12 | 21.50 |
|       |        | 1  | 49 | 20.14 | 19.97 | 20.01 | 21.50 |
|       |        | 25 | 0  | 20.30 | 20.31 | 20.20 | 21.50 |
|       |        | 25 | 13 | 20.23 | 20.33 | 20.29 | 21.50 |
|       |        | 25 | 25 | 20.42 | 20.34 | 20.22 | 21.50 |
|       | 16QAM  | 50 | 0  | 20.51 | 20.18 | 20.36 | 21.50 |
|       |        | 1  | 0  | 20.33 | 20.10 | 20.14 | 21.50 |
|       |        | 1  | 25 | 20.24 | 20.35 | 20.17 | 21.50 |
|       |        | 1  | 49 | 20.25 | 20.35 | 20.09 | 21.50 |
|       |        | 25 | 0  | 20.20 | 20.22 | 20.30 | 21.50 |
|       |        | 25 | 13 | 20.30 | 20.34 | 20.46 | 21.50 |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 20.31   | 20.44   | 20.40   | 21.50   |
|           |            | 50      | 0         | 20.52   | 20.28   | 20.33   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.28   | 20.39   | 20.15   | 21.50   |
|           |            | 1       | 25        | 20.18   | 20.35   | 20.07   | 21.50   |
|           |            | 1       | 49        | 20.32   | 20.26   | 20.29   | 21.50   |
|           |            | 25      | 0         | 20.20   | 20.14   | 20.34   | 21.50   |
|           |            | 25      | 13        | 20.30   | 20.20   | 20.23   | 21.50   |
|           |            | 25      | 25        | 20.17   | 20.31   | 20.27   | 21.50   |
|           |            | 50      | 0         | 20.24   | 20.34   | 20.29   | 21.50   |
|           | 256QAM     | 1       | 0         | 18.78   | 18.60   | 18.63   | 20.00   |
|           |            | 1       | 25        | 18.74   | 18.89   | 18.69   | 20.00   |
|           |            | 1       | 49        | 18.82   | 18.84   | 18.88   | 20.00   |
|           |            | 25      | 0         | 18.61   | 18.65   | 18.69   | 20.00   |
|           |            | 25      | 13        | 18.86   | 18.91   | 18.78   | 20.00   |
|           |            | 25      | 25        | 18.63   | 18.81   | 18.85   | 20.00   |
|           |            | 50      | 0         | 18.57   | 18.69   | 18.60   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132047  | 132322  | 132597  |         |
| 15MHz     | QPSK       | 1       | 0         | 20.37   | 20.36   | 20.30   | 21.50   |
|           |            | 1       | 38        | 20.27   | 20.29   | 20.19   | 21.50   |
|           |            | 1       | 74        | 20.12   | 20.03   | 19.97   | 21.50   |
|           |            | 36      | 0         | 20.34   | 20.28   | 20.20   | 21.50   |
|           |            | 36      | 18        | 20.26   | 20.31   | 20.21   | 21.50   |
|           |            | 36      | 39        | 20.36   | 20.41   | 20.19   | 21.50   |
|           |            | 75      | 0         | 20.41   | 20.26   | 20.36   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.33   | 20.17   | 20.24   | 21.50   |
|           |            | 1       | 38        | 20.16   | 20.27   | 20.22   | 21.50   |
|           |            | 1       | 74        | 20.25   | 20.36   | 20.08   | 21.50   |
|           |            | 36      | 0         | 20.22   | 20.16   | 20.24   | 21.50   |
|           |            | 36      | 18        | 20.38   | 20.38   | 20.36   | 21.50   |
|           |            | 36      | 39        | 20.38   | 20.42   | 20.33   | 21.50   |
|           |            | 75      | 0         | 20.44   | 20.37   | 20.32   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.21   | 20.33   | 20.25   | 21.50   |
|           |            | 1       | 38        | 20.15   | 20.25   | 20.17   | 21.50   |
|           |            | 1       | 74        | 20.26   | 20.27   | 20.22   | 21.50   |
|           |            | 36      | 0         | 20.22   | 20.22   | 20.35   | 21.50   |
|           |            | 36      | 18        | 20.38   | 20.28   | 20.19   | 21.50   |
|           |            | 36      | 39        | 20.11   | 20.34   | 20.21   | 21.50   |
|           |            | 75      | 0         | 20.15   | 20.38   | 20.21   | 21.50   |
|           | 256QAM     | 1       | 0         | 18.78   | 18.65   | 18.72   | 20.00   |
|           |            | 1       | 38        | 18.82   | 18.80   | 18.66   | 20.00   |
|           |            | 1       | 74        | 18.72   | 18.79   | 18.84   | 20.00   |
|           |            | 36      | 0         | 18.64   | 18.74   | 18.79   | 20.00   |
|           |            | 36      | 18        | 18.84   | 18.92   | 18.87   | 20.00   |
|           |            | 36      | 39        | 18.73   | 18.77   | 18.78   | 20.00   |
|           |            | 75      | 0         | 18.56   | 18.59   | 18.57   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 132072  | 132322  | 132572  |         |
| 20MHz     | QPSK       | 1       | 0         | 20.30   | 20.45   | 20.33   | 21.50   |
|           |            | 1       | 50        | 20.21   | 20.25   | 20.16   | 21.50   |
|           |            | 1       | 99        | 20.05   | 20.09   | 20.05   | 21.50   |
|           |            | 50      | 0         | 20.35   | 20.35   | 20.25   | 21.50   |
|           |            | 50      | 25        | 20.29   | 20.29   | 20.24   | 21.50   |
|           |            | 50      | 50        | 20.32   | 20.31   | 20.29   | 21.50   |
|           |            | 100     | 0         | 20.35   | 20.36   | 20.40   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.28   | 20.21   | 20.19   | 21.50   |
|           |            | 1       | 50        | 20.25   | 20.35   | 20.24   | 21.50   |
|           |            | 1       | 99        | 20.20   | 20.27   | 20.17   | 21.50   |
|           |            | 50      | 0         | 20.24   | 20.25   | 20.19   | 21.50   |
|           |            | 50      | 25        | 20.28   | 20.37   | 20.37   | 21.50   |
|           |            | 50      | 50        | 20.30   | 20.34   | 20.30   | 21.50   |
|           |            | 100     | 0         | 20.34   | 20.30   | 20.33   | 21.50   |
|           | 64QAM      | 1       | 0         | 20.30   | 20.26   | 20.26   | 21.50   |
|           |            | 1       | 50        | 20.16   | 20.25   | 20.14   | 21.50   |
|           |            | 1       | 99        | 20.22   | 20.31   | 20.26   | 21.50   |
|           |            | 50      | 0         | 20.21   | 20.23   | 20.36   | 21.50   |
|           |            | 50      | 25        | 20.31   | 20.26   | 20.24   | 21.50   |
|           |            | 50      | 50        | 20.20   | 20.29   | 20.29   | 21.50   |
|           |            | 100     | 0         | 20.25   | 20.29   | 20.24   | 21.50   |
|           | 256QAM     | 1       | 0         | 18.72   | 18.69   | 18.77   | 20.00   |

|  |  |     |    |       |       |       |       |
|--|--|-----|----|-------|-------|-------|-------|
|  |  | 1   | 50 | 18.76 | 18.73 | 18.76 | 20.00 |
|  |  | 1   | 99 | 18.79 | 18.78 | 18.74 | 20.00 |
|  |  | 50  | 0  | 18.71 | 18.73 | 18.74 | 20.00 |
|  |  | 50  | 25 | 18.79 | 18.84 | 18.86 | 20.00 |
|  |  | 50  | 50 | 18.69 | 18.79 | 18.79 | 20.00 |
|  |  | 100 | 0  | 18.59 | 18.63 | 18.57 | 20.00 |

| LTE Band 38 full power/Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                               |            |         |           | 37775                | 38000   | 38225   |         |
| 5MHz                                          | QPSK       | 1       | 0         | 22.62                | 22.70   | 22.67   | 24.00   |
|                                               |            | 1       | 13        | 22.46                | 22.43   | 22.35   | 24.00   |
|                                               |            | 1       | 24        | 22.48                | 22.45   | 22.50   | 24.00   |
|                                               |            | 12      | 0         | 21.72                | 21.70   | 21.65   | 23.00   |
|                                               |            | 12      | 6         | 21.57                | 21.66   | 21.63   | 23.00   |
|                                               |            | 12      | 13        | 21.52                | 21.58   | 21.62   | 23.00   |
|                                               |            | 25      | 0         | 21.56                | 21.55   | 21.59   | 23.00   |
|                                               | 16QAM      | 1       | 0         | 21.54                | 21.55   | 21.63   | 23.00   |
|                                               |            | 1       | 13        | 21.65                | 21.74   | 21.79   | 23.00   |
|                                               |            | 1       | 24        | 21.62                | 21.62   | 21.52   | 23.00   |
|                                               |            | 12      | 0         | 20.62                | 20.60   | 20.63   | 22.00   |
|                                               |            | 12      | 6         | 20.60                | 20.60   | 20.63   | 22.00   |
|                                               |            | 12      | 13        | 20.48                | 20.40   | 20.48   | 22.00   |
|                                               |            | 25      | 0         | 20.52                | 20.53   | 20.49   | 22.00   |
|                                               | 64QAM      | 1       | 0         | 20.37                | 20.43   | 20.46   | 22.00   |
|                                               |            | 1       | 13        | 20.89                | 20.80   | 20.83   | 22.00   |
|                                               |            | 1       | 24        | 20.73                | 20.65   | 20.70   | 22.00   |
|                                               |            | 12      | 0         | 19.69                | 19.74   | 19.69   | 21.00   |
|                                               |            | 12      | 6         | 19.51                | 19.49   | 19.52   | 21.00   |
|                                               |            | 12      | 13        | 19.54                | 19.61   | 19.57   | 21.00   |
|                                               |            | 25      | 0         | 19.72                | 19.63   | 19.54   | 21.00   |
|                                               | 256QAM     | 1       | 0         | 17.79                | 17.80   | 17.75   | 19.00   |
|                                               |            | 1       | 13        | 17.56                | 17.57   | 17.51   | 19.00   |
|                                               |            | 1       | 24        | 17.43                | 17.46   | 17.45   | 19.00   |
|                                               |            | 12      | 0         | 17.58                | 17.65   | 17.71   | 19.00   |
|                                               |            | 12      | 6         | 17.63                | 17.68   | 17.67   | 19.00   |
|                                               |            | 12      | 13        | 17.42                | 17.45   | 17.49   | 19.00   |
|                                               |            | 25      | 0         | 17.42                | 17.42   | 17.49   | 19.00   |
| Bandwidth                                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                               |            |         |           | 37800                | 38000   | 38200   |         |
| 10MHz                                         | QPSK       | 1       | 0         | 22.55                | 22.62   | 22.59   | 24.00   |
|                                               |            | 1       | 25        | 22.40                | 22.42   | 22.47   | 24.00   |
|                                               |            | 1       | 49        | 22.64                | 22.54   | 22.62   | 24.00   |
|                                               |            | 25      | 0         | 21.70                | 21.60   | 21.61   | 23.00   |
|                                               |            | 25      | 13        | 21.67                | 21.63   | 21.62   | 23.00   |
|                                               |            | 25      | 25        | 21.75                | 21.65   | 21.64   | 23.00   |
|                                               | 16QAM      | 50      | 0         | 21.54                | 21.48   | 21.45   | 23.00   |
|                                               |            | 1       | 0         | 21.38                | 21.47   | 21.44   | 23.00   |
|                                               |            | 1       | 25        | 21.63                | 21.70   | 21.74   | 23.00   |
|                                               |            | 1       | 49        | 21.57                | 21.61   | 21.60   | 23.00   |
|                                               |            | 25      | 0         | 20.58                | 20.54   | 20.60   | 22.00   |
|                                               |            | 25      | 13        | 20.70                | 20.64   | 20.66   | 22.00   |
|                                               | 64QAM      | 25      | 25        | 20.52                | 20.47   | 20.46   | 22.00   |
|                                               |            | 50      | 0         | 20.57                | 20.57   | 20.50   | 22.00   |
|                                               |            | 1       | 0         | 20.52                | 20.51   | 20.56   | 22.00   |
|                                               |            | 1       | 25        | 20.77                | 20.71   | 20.72   | 22.00   |
|                                               |            | 1       | 49        | 20.71                | 20.68   | 20.60   | 22.00   |
|                                               |            | 25      | 0         | 19.58                | 19.65   | 19.70   | 21.00   |
|                                               | 256QAM     | 25      | 13        | 19.58                | 19.56   | 19.60   | 21.00   |
|                                               |            | 25      | 25        | 19.69                | 19.70   | 19.73   | 21.00   |
|                                               |            | 50      | 0         | 19.71                | 19.71   | 19.61   | 21.00   |
|                                               |            | 1       | 0         | 17.70                | 17.70   | 17.78   | 19.00   |
|                                               |            | 1       | 25        | 17.47                | 17.50   | 17.55   | 19.00   |
|                                               |            | 1       | 49        | 17.38                | 17.39   | 17.42   | 19.00   |
|                                               |            | 25      | 0         | 17.57                | 17.63   | 17.73   | 19.00   |
|                                               |            | 25      | 13        | 17.67                | 17.60   | 17.54   | 19.00   |
|                                               |            | 25      | 25        | 17.38                | 17.47   | 17.45   | 19.00   |
|                                               |            | 50      | 0         | 17.49                | 17.42   | 17.40   | 19.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.78   | 22.72   | 22.67   | 24.00   |
|           |            | 1       | 38        | 22.55   | 22.48   | 22.46   | 24.00   |
|           |            | 1       | 74        | 22.39   | 22.47   | 22.51   | 24.00   |
|           |            | 36      | 0         | 21.54   | 21.64   | 21.54   | 23.00   |
|           |            | 36      | 18        | 21.62   | 21.56   | 21.57   | 23.00   |
|           |            | 36      | 39        | 21.68   | 21.62   | 21.69   | 23.00   |
|           | 16QAM      | 75      | 0         | 21.53   | 21.51   | 21.50   | 23.00   |
|           |            | 1       | 0         | 21.43   | 21.50   | 21.50   | 23.00   |
|           |            | 1       | 38        | 21.77   | 21.68   | 21.69   | 23.00   |
|           |            | 1       | 74        | 21.62   | 21.58   | 21.67   | 23.00   |
|           |            | 36      | 0         | 20.47   | 20.56   | 20.65   | 22.00   |
|           |            | 36      | 18        | 20.52   | 20.58   | 20.55   | 22.00   |
|           | 64QAM      | 36      | 39        | 20.60   | 20.54   | 20.53   | 22.00   |
|           |            | 75      | 0         | 20.68   | 20.60   | 20.68   | 22.00   |
|           |            | 1       | 0         | 20.55   | 20.50   | 20.53   | 22.00   |
|           |            | 1       | 38        | 20.69   | 20.62   | 20.70   | 22.00   |
|           |            | 1       | 74        | 20.68   | 20.64   | 20.61   | 22.00   |
|           |            | 36      | 0         | 19.50   | 19.59   | 19.66   | 21.00   |
| 20MHz     | QPSK       | 36      | 18        | 19.58   | 19.53   | 19.61   | 21.00   |
|           |            | 36      | 39        | 19.59   | 19.67   | 19.66   | 21.00   |
|           |            | 75      | 0         | 19.62   | 19.61   | 19.63   | 21.00   |
|           | 16QAM      | 1       | 0         | 17.65   | 17.63   | 17.73   | 19.00   |
|           |            | 1       | 38        | 17.46   | 17.56   | 17.63   | 19.00   |
|           |            | 1       | 74        | 17.44   | 17.49   | 17.49   | 19.00   |
|           | 256QAM     | 36      | 0         | 17.58   | 17.60   | 17.60   | 19.00   |
|           |            | 36      | 18        | 17.56   | 17.59   | 17.56   | 19.00   |
|           |            | 36      | 39        | 17.49   | 17.49   | 17.56   | 19.00   |
|           |            | 75      | 0         | 17.57   | 17.51   | 17.56   | 19.00   |
|           | QPSK       | 1       | 0         | /       | 38000   | /       | 24.00   |
|           |            | 1       | 50        | /       | 22.68   | /       | 24.00   |
|           |            | 1       | 99        | /       | 22.54   | /       | 24.00   |
|           |            | 50      | 0         | /       | 21.56   | /       | 23.00   |
|           |            | 50      | 25        | /       | 21.55   | /       | 23.00   |
|           |            | 50      | 50        | /       | 21.61   | /       | 23.00   |
|           | 16QAM      | 100     | 0         | /       | 21.58   | /       | 23.00   |
|           |            | 1       | 0         | /       | 21.54   | /       | 23.00   |
|           |            | 1       | 50        | /       | 21.59   | /       | 23.00   |
|           |            | 1       | 99        | /       | 21.59   | /       | 23.00   |
|           |            | 50      | 0         | /       | 20.58   | /       | 22.00   |
|           |            | 50      | 25        | /       | 20.60   | /       | 22.00   |
|           | 64QAM      | 50      | 50        | /       | 20.59   | /       | 22.00   |
|           |            | 100     | 0         | /       | 20.55   | /       | 22.00   |
|           |            | 1       | 0         | /       | 20.59   | /       | 22.00   |
|           |            | 1       | 50        | /       | 20.57   | /       | 22.00   |
|           |            | 1       | 99        | /       | 20.57   | /       | 22.00   |
|           |            | 50      | 0         | /       | 19.56   | /       | 21.00   |
|           | 256QAM     | 50      | 25        | /       | 19.56   | /       | 21.00   |
|           |            | 50      | 50        | /       | 19.59   | /       | 21.00   |
|           |            | 100     | 0         | /       | 19.55   | /       | 21.00   |
|           |            | 1       | 0         | /       | 17.60   | /       | 19.00   |
|           |            | 1       | 50        | /       | 17.61   | /       | 19.00   |
|           |            | 1       | 99        | /       | 17.56   | /       | 19.00   |
|           | QPSK       | 50      | 0         | /       | 17.57   | /       | 19.00   |
|           |            | 50      | 25        | /       | 17.57   | /       | 19.00   |
|           |            | 50      | 50        | /       | 17.54   | /       | 19.00   |
|           |            | 100     | 0         | /       | 17.60   | /       | 19.00   |

| LTE Band 41 PC3&PC2 Head/Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |         |         |
|--------------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|---------|
| Bandwidth                                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
|                                            |            |         |           | 39675                | 40148   | 40620   | 41093   | 41565   |         |
| 5MHz                                       | QPSK       | 1       | 0         | 22.61                | 22.52   | 22.7    | 22.65   | 22.33   | 24.00   |
|                                            |            | 1       | 13        | 22.24                | 22.75   | 22.68   | 22.55   | 22.44   | 24.00   |

|           |            | 1       | 24        | 22.53   | 22.71   | 22.55   | 22.63   | 22.26   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 12      | 0         | 21.81   | 21.64   | 21.48   | 21.58   | 21.53   | 23.00   |
|           |            | 12      | 6         | 21.72   | 21.8    | 21.61   | 21.74   | 21.58   | 23.00   |
|           |            | 12      | 13        | 21.44   | 21.49   | 21.38   | 21.5    | 21.31   | 23.00   |
|           |            | 25      | 0         | 21.37   | 21.71   | 21.57   | 21.83   | 21.35   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.34   | 21.68   | 21.35   | 21.65   | 21.34   | 23.00   |
|           |            | 1       | 13        | 21.31   | 21.75   | 21.56   | 21.48   | 21.34   | 23.00   |
|           |            | 1       | 24        | 21.26   | 21.44   | 21.77   | 21.52   | 21.42   | 23.00   |
|           |            | 12      | 0         | 20.38   | 20.43   | 20.61   | 20.77   | 20.53   | 22.00   |
|           |            | 12      | 6         | 20.41   | 20.61   | 20.53   | 20.49   | 20.58   | 22.00   |
|           |            | 12      | 13        | 20.55   | 20.76   | 20.55   | 20.64   | 20.62   | 22.00   |
|           |            | 25      | 0         | 20.38   | 20.44   | 20.63   | 20.51   | 20.62   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.52   | 20.53   | 20.67   | 20.65   | 20.66   | 22.00   |
|           |            | 1       | 13        | 20.24   | 20.75   | 20.54   | 20.42   | 20.41   | 22.00   |
|           |            | 1       | 24        | 20.60   | 20.49   | 20.60   | 20.62   | 20.58   | 22.00   |
|           |            | 12      | 0         | 19.45   | 19.53   | 19.72   | 19.71   | 19.59   | 21.00   |
|           |            | 12      | 6         | 19.57   | 19.74   | 19.56   | 19.43   | 19.49   | 21.00   |
|           |            | 12      | 13        | 19.52   | 19.44   | 19.49   | 19.57   | 19.36   | 21.00   |
|           |            | 25      | 0         | 19.48   | 19.72   | 19.58   | 19.50   | 19.52   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.59   | 17.51   | 17.61   | 17.39   | 17.45   | 19.00   |
|           |            | 1       | 13        | 17.43   | 17.67   | 17.71   | 17.47   | 17.35   | 19.00   |
|           |            | 1       | 24        | 17.45   | 17.68   | 17.71   | 17.53   | 17.43   | 19.00   |
|           |            | 12      | 0         | 17.42   | 17.61   | 17.56   | 17.63   | 17.54   | 19.00   |
|           |            | 12      | 6         | 17.54   | 17.60   | 17.61   | 17.66   | 17.66   | 19.00   |
|           |            | 12      | 13        | 17.42   | 17.59   | 17.52   | 17.65   | 17.44   | 19.00   |
|           |            | 25      | 0         | 17.54   | 17.58   | 17.51   | 17.39   | 17.76   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39700   | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.65   | 22.52   | 22.77   | 22.7    | 22.41   | 24.00   |
|           |            | 1       | 25        | 22.33   | 22.72   | 22.69   | 22.57   | 22.45   | 24.00   |
|           |            | 1       | 49        | 22.51   | 22.73   | 22.64   | 22.58   | 22.34   | 24.00   |
|           |            | 25      | 0         | 21.72   | 21.73   | 21.53   | 21.57   | 21.47   | 23.00   |
|           |            | 25      | 13        | 21.63   | 21.73   | 21.57   | 21.72   | 21.49   | 23.00   |
|           |            | 25      | 25        | 21.52   | 21.56   | 21.47   | 21.49   | 21.33   | 23.00   |
|           |            | 50      | 0         | 21.41   | 21.63   | 21.67   | 21.82   | 21.34   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.4    | 21.64   | 21.42   | 21.55   | 21.43   | 23.00   |
|           |            | 1       | 25        | 21.31   | 21.68   | 21.48   | 21.57   | 21.41   | 23.00   |
|           |            | 1       | 49        | 21.29   | 21.45   | 21.76   | 21.56   | 21.44   | 23.00   |
|           |            | 25      | 0         | 20.34   | 20.41   | 20.59   | 20.74   | 20.56   | 22.00   |
|           |            | 25      | 13        | 20.43   | 20.68   | 20.61   | 20.59   | 20.53   | 22.00   |
|           |            | 25      | 25        | 20.47   | 20.7    | 20.53   | 20.57   | 20.55   | 22.00   |
|           |            | 50      | 0         | 20.34   | 20.53   | 20.69   | 20.44   | 20.54   | 22.00   |
|           | 64QAM      | 1       | 0         | 20.57   | 20.54   | 20.60   | 20.55   | 20.63   | 22.00   |
|           |            | 1       | 25        | 20.30   | 20.66   | 20.59   | 20.50   | 20.44   | 22.00   |
|           |            | 1       | 49        | 20.55   | 20.57   | 20.58   | 20.55   | 20.50   | 22.00   |
|           |            | 25      | 0         | 19.52   | 19.54   | 19.73   | 19.77   | 19.56   | 21.00   |
|           |            | 25      | 13        | 19.60   | 19.73   | 19.61   | 19.53   | 19.53   | 21.00   |
|           |            | 25      | 25        | 19.44   | 19.52   | 19.52   | 19.52   | 19.46   | 21.00   |
|           |            | 50      | 0         | 19.50   | 19.64   | 19.55   | 19.60   | 19.56   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.60   | 17.56   | 17.62   | 17.47   | 17.49   | 19.00   |
|           |            | 1       | 25        | 17.51   | 17.63   | 17.70   | 17.54   | 17.41   | 19.00   |

|           |            | 1       | 49        | 17.45   | 17.70   | 17.73   | 17.60   | 17.48   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.50   | 17.57   | 17.58   | 17.64   | 17.47   | 19.00   |
|           |            | 25      | 13        | 17.54   | 17.51   | 17.64   | 17.57   | 17.63   | 19.00   |
|           |            | 25      | 25        | 17.42   | 17.50   | 17.61   | 17.74   | 17.48   | 19.00   |
|           |            | 50      | 0         | 17.45   | 17.66   | 17.55   | 17.44   | 17.66   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.55   | 22.5    | 22.72   | 22.66   | 22.5    | 24.00   |
|           |            | 1       | 38        | 22.39   | 22.63   | 22.65   | 22.57   | 22.36   | 24.00   |
|           |            | 1       | 74        | 22.6    | 22.68   | 22.74   | 22.67   | 22.44   | 24.00   |
|           |            | 36      | 0         | 21.63   | 21.66   | 21.55   | 21.64   | 21.44   | 23.00   |
|           |            | 36      | 18        | 21.6    | 21.64   | 21.66   | 21.65   | 21.52   | 23.00   |
|           |            | 36      | 39        | 21.58   | 21.57   | 21.57   | 21.59   | 21.43   | 23.00   |
|           |            | 75      | 0         | 21.35   | 21.6    | 21.66   | 21.73   | 21.37   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.48   | 21.65   | 21.52   | 21.51   | 21.51   | 23.00   |
|           |            | 1       | 38        | 21.41   | 21.59   | 21.5    | 21.57   | 21.42   | 23.00   |
|           |            | 1       | 74        | 21.37   | 21.51   | 21.68   | 21.48   | 21.54   | 23.00   |
|           |            | 36      | 0         | 20.37   | 20.49   | 20.54   | 20.74   | 20.48   | 22.00   |
|           |            | 36      | 18        | 20.49   | 20.58   | 20.54   | 20.58   | 20.54   | 22.00   |
|           |            | 36      | 39        | 20.4    | 20.63   | 20.63   | 20.5    | 20.61   | 22.00   |
|           |            | 75      | 0         | 20.44   | 20.53   | 20.64   | 20.54   | 20.5    | 22.00   |
|           | 64QAM      | 1       | 0         | 20.60   | 20.63   | 20.57   | 20.52   | 20.57   | 22.00   |
|           |            | 1       | 38        | 20.39   | 20.64   | 20.59   | 20.53   | 20.36   | 22.00   |
|           |            | 1       | 74        | 20.46   | 20.55   | 20.63   | 20.57   | 20.50   | 22.00   |
|           |            | 36      | 0         | 19.53   | 19.59   | 19.69   | 19.68   | 19.52   | 21.00   |
|           |            | 36      | 18        | 19.52   | 19.65   | 19.65   | 19.59   | 19.43   | 21.00   |
|           |            | 36      | 39        | 19.54   | 19.54   | 19.53   | 19.57   | 19.41   | 21.00   |
|           |            | 75      | 0         | 19.50   | 19.65   | 19.49   | 19.60   | 19.50   | 21.00   |
|           | 256QAM     | 1       | 0         | 17.54   | 17.61   | 17.60   | 17.55   | 17.50   | 19.00   |
|           |            | 1       | 38        | 17.60   | 17.66   | 17.68   | 17.52   | 17.41   | 19.00   |
|           |            | 1       | 74        | 17.46   | 17.66   | 17.67   | 17.52   | 17.46   | 19.00   |
|           |            | 36      | 0         | 17.60   | 17.59   | 17.66   | 17.58   | 17.53   | 19.00   |
|           |            | 36      | 18        | 17.50   | 17.47   | 17.67   | 17.61   | 17.55   | 19.00   |
|           |            | 36      | 39        | 17.49   | 17.52   | 17.53   | 17.70   | 17.45   | 19.00   |
|           |            | 75      | 0         | 17.53   | 17.60   | 17.56   | 17.52   | 17.60   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.63   | 22.58   | 22.71   | 22.63   | 22.57   | 24.00   |
|           |            | 1       | 50        | 22.45   | 22.56   | 22.58   | 22.57   | 22.43   | 24.00   |
|           |            | 1       | 99        | 22.5    | 22.61   | 22.64   | 22.59   | 22.51   | 24.00   |
|           |            | 50      | 0         | 21.53   | 21.6    | 21.62   | 21.62   | 21.54   | 23.00   |
|           |            | 50      | 25        | 21.5    | 21.59   | 21.58   | 21.61   | 21.49   | 23.00   |
|           |            | 50      | 50        | 21.55   | 21.58   | 21.62   | 21.63   | 21.47   | 23.00   |
|           |            | 100     | 0         | 21.45   | 21.62   | 21.59   | 21.63   | 21.46   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.43   | 21.61   | 21.58   | 21.59   | 21.48   | 23.00   |
|           |            | 1       | 50        | 21.5    | 21.57   | 21.59   | 21.62   | 21.47   | 23.00   |
|           |            | 1       | 99        | 21.45   | 21.58   | 21.58   | 21.58   | 21.47   | 23.00   |
|           |            | 50      | 0         | 20.45   | 20.57   | 20.58   | 20.64   | 20.45   | 22.00   |
|           |            | 50      | 25        | 20.47   | 20.57   | 20.59   | 20.56   | 20.46   | 22.00   |
|           |            | 50      | 50        | 20.47   | 20.57   | 20.61   | 20.56   | 20.53   | 22.00   |
|           |            | 100     | 0         | 20.54   | 20.58   | 20.62   | 20.62   | 20.53   | 22.00   |

|  |        |     |    |       |       |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|-------|-------|
|  | 64QAM  | 1   | 0  | 20.53 | 20.60 | 20.64 | 20.61 | 20.54 | 22.00 |
|  |        | 1   | 50 | 20.45 | 20.62 | 20.57 | 20.60 | 20.44 | 22.00 |
|  |        | 1   | 99 | 20.48 | 20.58 | 20.58 | 20.63 | 20.46 | 22.00 |
|  |        | 50  | 0  | 19.49 | 19.57 | 19.61 | 19.61 | 19.47 | 21.00 |
|  |        | 50  | 25 | 19.49 | 19.57 | 19.58 | 19.62 | 19.45 | 21.00 |
|  |        | 50  | 50 | 19.48 | 19.60 | 19.60 | 19.62 | 19.50 | 21.00 |
|  |        | 100 | 0  | 19.46 | 19.58 | 19.57 | 19.62 | 19.43 | 21.00 |
|  | 256QAM | 1   | 0  | 17.48 | 17.59 | 17.64 | 17.61 | 17.49 | 19.00 |
|  |        | 1   | 50 | 17.50 | 17.63 | 17.63 | 17.57 | 17.50 | 19.00 |
|  |        | 1   | 99 | 17.46 | 17.63 | 17.58 | 17.57 | 17.49 | 19.00 |
|  |        | 50  | 0  | 17.50 | 17.62 | 17.59 | 17.58 | 17.47 | 19.00 |
|  |        | 50  | 25 | 17.53 | 17.57 | 17.63 | 17.62 | 17.52 | 19.00 |
|  |        | 50  | 50 | 17.50 | 17.57 | 17.59 | 17.61 | 17.48 | 19.00 |
|  |        | 100 | 0  | 17.52 | 17.61 | 17.62 | 17.61 | 17.51 | 19.00 |

| LTE Band 41 PC2 Full power |            |         |           | Conducted Power(dBm) |         |         |         |         |         |
|----------------------------|------------|---------|-----------|----------------------|---------|---------|---------|---------|---------|
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
| 5MHz                       | QPSK       | 1       | 0         | 39675                | 40148   | 40620   | 41093   | 41565   | 27.00   |
|                            |            | 1       | 13        | 25.59                | 25.56   | 25.72   | 25.63   | 25.37   | 27.00   |
|                            |            | 1       | 24        | 25.26                | 25.79   | 25.67   | 25.55   | 25.43   | 27.00   |
|                            |            | 1       | 24        | 25.53                | 25.74   | 25.51   | 25.61   | 25.29   | 27.00   |
|                            |            | 12      | 0         | 24.84                | 24.6    | 24.48   | 24.62   | 24.51   | 26.00   |
|                            |            | 12      | 6         | 24.69                | 24.81   | 24.64   | 24.71   | 24.57   | 26.00   |
|                            |            | 12      | 13        | 24.46                | 24.47   | 24.35   | 24.45   | 24.31   | 26.00   |
|                            |            | 25      | 0         | 24.4                 | 24.68   | 24.57   | 24.83   | 24.36   | 26.00   |
|                            | 16QAM      | 1       | 0         | 24.37                | 24.67   | 24.34   | 24.62   | 24.34   | 26.00   |
|                            |            | 1       | 13        | 24.29                | 24.73   | 24.56   | 24.46   | 24.35   | 26.00   |
|                            |            | 1       | 24        | 24.25                | 24.45   | 24.75   | 24.49   | 24.44   | 26.00   |
|                            |            | 12      | 0         | 23.39                | 23.4    | 23.59   | 23.74   | 23.53   | 25.00   |
|                            |            | 12      | 6         | 23.36                | 23.56   | 23.51   | 23.45   | 23.62   | 25.00   |
|                            |            | 12      | 13        | 23.58                | 23.75   | 23.51   | 23.67   | 23.58   | 25.00   |
|                            |            | 25      | 0         | 23.42                | 23.48   | 23.61   | 23.47   | 23.6    | 25.00   |
|                            | 64QAM      | 1       | 0         | 23.49                | 23.57   | 23.69   | 23.61   | 23.66   | 25.00   |
|                            |            | 1       | 13        | 23.26                | 23.75   | 23.51   | 23.44   | 23.42   | 25.00   |
|                            |            | 1       | 24        | 23.57                | 23.46   | 23.58   | 23.65   | 23.57   | 25.00   |
|                            |            | 12      | 0         | 22.41                | 22.53   | 22.75   | 22.67   | 22.58   | 24.00   |
|                            |            | 12      | 6         | 22.56                | 22.69   | 22.57   | 22.46   | 22.48   | 24.00   |
|                            |            | 12      | 13        | 22.48                | 22.41   | 22.50   | 22.56   | 22.39   | 24.00   |
|                            |            | 25      | 0         | 22.52                | 22.76   | 22.60   | 22.53   | 22.49   | 24.00   |
|                            | 256QAM     | 1       | 0         | 20.57                | 20.53   | 20.59   | 20.43   | 20.46   | 22.00   |
|                            |            | 1       | 13        | 20.39                | 20.69   | 20.73   | 20.47   | 20.34   | 22.00   |
|                            |            | 1       | 24        | 20.44                | 20.71   | 20.72   | 20.52   | 20.44   | 22.00   |
|                            |            | 12      | 0         | 20.45                | 20.60   | 20.53   | 20.59   | 20.58   | 22.00   |
|                            |            | 12      | 6         | 20.50                | 20.59   | 20.59   | 20.66   | 20.62   | 22.00   |
|                            |            | 12      | 13        | 20.38                | 20.63   | 20.49   | 20.63   | 20.39   | 22.00   |
|                            |            | 25      | 0         | 20.54                | 20.61   | 20.52   | 20.37   | 20.75   | 22.00   |
| Bandwidth                  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Channel | Channel | Tune up |
| 10MHz                      | QPSK       | 1       | 0         | 39700                | 40160   | 40620   | 41080   | 41540   | 27.00   |
|                            |            | 1       | 25        | 25.63                | 25.49   | 25.68   | 25.63   | 25.36   | 27.00   |
|                            |            | 1       | 49        | 25.21                | 25.71   | 25.67   | 25.54   | 25.43   | 27.00   |
|                            |            | 1       | 49        | 25.52                | 25.7    | 25.55   | 25.6    | 25.29   | 27.00   |
|                            |            | 25      | 0         | 24.8                 | 24.65   | 24.45   | 24.6    | 24.51   | 26.00   |
|                            |            | 25      | 13        | 24.71                | 24.81   | 24.61   | 24.72   | 24.59   | 26.00   |
|                            |            | 25      | 25        | 24.4                 | 24.51   | 24.34   | 24.49   | 24.27   | 26.00   |
|                            |            | 50      | 0         | 24.36                | 24.68   | 24.58   | 24.79   | 24.31   | 26.00   |
|                            | 16QAM      | 1       | 0         | 24.34                | 24.64   | 24.34   | 24.63   | 24.35   | 26.00   |

|       |           |            |         |           |         |         |         |         |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|
|       |           | 1          | 25      | 24.35     | 24.74   | 24.55   | 24.45   | 24.32   | 26.00   |
|       |           | 1          | 49      | 24.27     | 24.42   | 24.73   | 24.48   | 24.4    | 26.00   |
|       |           | 25         | 0       | 23.36     | 23.46   | 23.59   | 23.78   | 23.56   | 25.00   |
|       |           | 25         | 13      | 23.43     | 23.63   | 23.5    | 23.49   | 23.57   | 25.00   |
|       |           | 25         | 25      | 23.57     | 23.73   | 23.57   | 23.6    | 23.6    | 25.00   |
|       |           | 50         | 0       | 23.37     | 23.41   | 23.58   | 23.48   | 23.63   | 25.00   |
|       | 64QAM     | 1          | 0       | 23.49     | 23.48   | 23.65   | 23.65   | 23.69   | 25.00   |
|       |           | 1          | 25      | 23.20     | 23.76   | 23.54   | 23.43   | 23.42   | 25.00   |
|       |           | 1          | 49      | 23.59     | 23.52   | 23.61   | 23.63   | 23.55   | 25.00   |
|       |           | 25         | 0       | 22.45     | 22.52   | 22.75   | 22.75   | 22.56   | 24.00   |
|       |           | 25         | 13      | 22.54     | 22.73   | 22.53   | 22.43   | 22.48   | 24.00   |
|       |           | 25         | 25      | 22.50     | 22.45   | 22.45   | 22.54   | 22.34   | 24.00   |
|       | 256QAM    | 50         | 0       | 22.48     | 22.67   | 22.56   | 22.52   | 22.50   | 24.00   |
|       |           | 1          | 0       | 20.56     | 20.49   | 20.59   | 20.36   | 20.44   | 22.00   |
|       |           | 1          | 25      | 20.47     | 20.69   | 20.71   | 20.50   | 20.34   | 22.00   |
|       |           | 1          | 49      | 20.48     | 20.63   | 20.69   | 20.51   | 20.41   | 22.00   |
|       |           | 25         | 0       | 20.44     | 20.59   | 20.59   | 20.66   | 20.58   | 22.00   |
|       |           | 25         | 13      | 20.53     | 20.62   | 20.63   | 20.62   | 20.64   | 22.00   |
| 15MHz | QPSK      | 25         | 25      | 20.42     | 20.57   | 20.54   | 20.62   | 20.43   | 22.00   |
|       |           | 50         | 0       | 20.56     | 20.54   | 20.49   | 20.43   | 20.74   | 22.00   |
|       | 16QAM     | 1          | 0       | 25.57     | 25.5    | 25.69   | 25.64   | 25.36   | 27.00   |
|       |           | 1          | 38      | 25.28     | 25.76   | 25.64   | 25.53   | 25.44   | 27.00   |
|       |           | 1          | 74      | 25.5      | 25.75   | 25.5    | 25.64   | 25.23   | 27.00   |
|       |           | 36         | 0       | 24.79     | 24.62   | 24.46   | 24.61   | 24.54   | 26.00   |
|       |           | 36         | 18      | 24.74     | 24.75   | 24.6    | 24.75   | 24.57   | 26.00   |
|       |           | 36         | 39      | 24.47     | 24.49   | 24.4    | 24.51   | 24.27   | 26.00   |
|       | 64QAM     | 75         | 0       | 24.38     | 24.74   | 24.52   | 24.82   | 24.37   | 26.00   |
|       |           | 1          | 0       | 24.38     | 24.64   | 24.33   | 24.63   | 24.32   | 26.00   |
|       |           | 1          | 38      | 24.33     | 24.77   | 24.51   | 24.48   | 24.33   | 26.00   |
|       |           | 1          | 74      | 24.28     | 24.39   | 24.78   | 24.53   | 24.46   | 26.00   |
|       |           | 36         | 0       | 23.41     | 23.41   | 23.58   | 23.74   | 23.54   | 25.00   |
|       |           | 36         | 18      | 23.43     | 23.59   | 23.54   | 23.48   | 23.59   | 25.00   |
| 20MHz | 256QAM    | 36         | 39      | 23.52     | 23.72   | 23.55   | 23.59   | 23.65   | 25.00   |
|       |           | 75         | 0       | 23.38     | 23.41   | 23.65   | 23.52   | 23.65   | 25.00   |
|       | QPSK      | 1          | 0       | 23.49     | 23.56   | 23.70   | 23.67   | 23.65   | 25.00   |
|       |           | 1          | 38      | 23.20     | 23.76   | 23.49   | 23.42   | 23.44   | 25.00   |
|       |           | 1          | 74      | 23.61     | 23.52   | 23.64   | 23.58   | 23.56   | 25.00   |
|       |           | 36         | 0       | 22.43     | 22.55   | 22.69   | 22.71   | 22.57   | 24.00   |
|       | 16QAM     | 36         | 18      | 22.58     | 22.73   | 22.58   | 22.41   | 22.44   | 24.00   |
|       |           | 36         | 39      | 22.51     | 22.44   | 22.50   | 22.57   | 22.35   | 24.00   |
|       |           | 75         | 0       | 22.51     | 22.69   | 22.55   | 22.53   | 22.49   | 24.00   |
|       | 256QAM    | 1          | 0       | 20.60     | 20.48   | 20.60   | 20.35   | 20.42   | 22.00   |
|       |           | 1          | 38      | 20.42     | 20.65   | 20.71   | 20.49   | 20.31   | 22.00   |
|       |           | 1          | 74      | 20.43     | 20.64   | 20.73   | 20.52   | 20.45   | 22.00   |
|       |           | 36         | 0       | 20.40     | 20.61   | 20.53   | 20.62   | 20.51   | 22.00   |
|       |           | 36         | 18      | 20.53     | 20.62   | 20.58   | 20.68   | 20.66   | 22.00   |
|       |           | 36         | 39      | 20.46     | 20.54   | 20.48   | 20.68   | 20.39   | 22.00   |
| SGS   | Bandwidth | 75         | 0       | 20.52     | 20.55   | 20.52   | 20.35   | 20.75   | 22.00   |
|       |           | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Tune up |
|       |           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |
|       | 15MHz     | 1          | 0       | 25.61     | 25.49   | 25.99   | 25.61   | 25.31   | 27.00   |
|       |           | 1          | 50      | 25.22     | 25.78   | 25.65   | 25.52   | 25.48   | 27.00   |
|       |           | 1          | 99      | 25.5      | 25.68   | 25.58   | 25.65   | 25.23   | 27.00   |
|       |           | 50         | 0       | 24.78     | 24.61   | 24.51   | 24.57   | 24.53   | 26.00   |
|       |           | 50         | 25      | 24.73     | 24.82   | 24.61   | 24.75   | 24.58   | 26.00   |
|       |           | 50         | 50      | 24.44     | 24.45   | 24.39   | 24.48   | 24.3    | 26.00   |
|       | 20MHz     | 100        | 0       | 24.34     | 24.68   | 24.55   | 24.85   | 24.35   | 26.00   |
|       |           | 1          | 0       | 24.35     | 24.71   | 24.31   | 24.67   | 24.32   | 26.00   |
|       |           | 1          | 50      | 24.28     | 24.75   | 24.58   | 24.47   | 24.36   | 26.00   |
|       |           | 1          | 99      | 24.25     | 24.43   | 24.73   | 24.53   | 24.39   | 26.00   |
|       |           | 50         | 0       | 23.38     | 23.44   | 23.57   | 23.75   | 23.51   | 25.00   |
|       |           | 50         | 0       | 23.38     | 23.44   | 23.57   | 23.75   | 23.51   | 25.00   |

|  |        |     |    |       |       |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|-------|-------|
|  |        | 50  | 25 | 23.43 | 23.64 | 23.53 | 23.46 | 23.6  | 25.00 |
|  |        | 50  | 50 | 23.53 | 23.73 | 23.55 | 23.64 | 23.59 | 25.00 |
|  |        | 100 | 0  | 23.4  | 23.48 | 23.67 | 23.53 | 23.63 | 25.00 |
|  | 64QAM  | 1   | 0  | 23.54 | 23.56 | 23.67 | 23.65 | 23.61 | 25.00 |
|  |        | 1   | 50 | 23.27 | 23.77 | 23.52 | 23.38 | 23.40 | 25.00 |
|  |        | 1   | 99 | 23.63 | 23.46 | 23.56 | 23.57 | 23.56 | 25.00 |
|  |        | 50  | 0  | 22.48 | 22.52 | 22.69 | 22.66 | 22.55 | 24.00 |
|  |        | 50  | 25 | 22.58 | 22.71 | 22.58 | 22.40 | 22.47 | 24.00 |
|  |        | 50  | 50 | 22.54 | 22.47 | 22.52 | 22.55 | 22.38 | 24.00 |
|  |        | 100 | 0  | 22.50 | 22.69 | 22.58 | 22.50 | 22.49 | 24.00 |
|  | 256QAM | 1   | 0  | 20.55 | 20.46 | 20.63 | 20.42 | 20.45 | 22.00 |
|  |        | 1   | 50 | 20.38 | 20.65 | 20.73 | 20.43 | 20.35 | 22.00 |
|  |        | 1   | 99 | 20.41 | 20.67 | 20.71 | 20.55 | 20.38 | 22.00 |
|  |        | 50  | 0  | 20.43 | 20.60 | 20.56 | 20.66 | 20.52 | 22.00 |
|  |        | 50  | 25 | 20.57 | 20.60 | 20.64 | 20.67 | 20.69 | 22.00 |
|  |        | 50  | 50 | 20.39 | 20.54 | 20.49 | 20.68 | 20.43 | 22.00 |
|  |        | 100 | 0  | 20.52 | 20.59 | 20.49 | 20.41 | 20.74 | 22.00 |

### 1.3 Conducted Power of Legacy (Ant2)

| LTE Band 42 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 41615                | 42590   | 43565   |         |
| 5MHz             | QPSK       | 1       | 0         | 18.16                | 18.47   | 18.22   | 20.00   |
|                  |            | 1       | 13        | 18.38                | 18.51   | 18.30   | 20.00   |
|                  |            | 1       | 24        | 18.20                | 18.30   | 18.21   | 20.00   |
|                  |            | 12      | 0         | 18.31                | 18.49   | 18.29   | 20.00   |
|                  |            | 12      | 6         | 18.37                | 18.09   | 18.28   | 20.00   |
|                  |            | 12      | 13        | 18.28                | 18.50   | 18.24   | 20.00   |
|                  | 16QAM      | 25      | 0         | 18.29                | 18.27   | 18.31   | 20.00   |
|                  |            | 1       | 0         | 18.43                | 18.23   | 18.37   | 20.00   |
|                  |            | 1       | 13        | 18.21                | 18.35   | 18.48   | 20.00   |
|                  |            | 1       | 24        | 18.27                | 18.41   | 18.20   | 20.00   |
|                  |            | 12      | 0         | 18.22                | 18.54   | 18.28   | 20.00   |
|                  |            | 12      | 6         | 18.42                | 18.39   | 18.20   | 20.00   |
|                  | 64QAM      | 12      | 13        | 18.26                | 18.33   | 18.33   | 20.00   |
|                  |            | 25      | 0         | 18.32                | 18.43   | 18.24   | 20.00   |
|                  |            | 1       | 0         | 18.39                | 18.26   | 18.43   | 20.00   |
|                  |            | 1       | 13        | 18.50                | 18.29   | 18.18   | 20.00   |
|                  |            | 1       | 24        | 18.55                | 18.42   | 18.43   | 20.00   |
|                  |            | 12      | 0         | 18.35                | 18.25   | 18.15   | 20.00   |
|                  | 256QAM     | 12      | 6         | 18.24                | 18.21   | 18.24   | 20.00   |
|                  |            | 12      | 13        | 18.18                | 18.41   | 18.35   | 20.00   |
|                  |            | 25      | 0         | 18.25                | 18.30   | 18.48   | 20.00   |
|                  |            | 1       | 0         | 18.33                | 18.34   | 18.33   | 20.00   |
|                  |            | 1       | 13        | 18.28                | 18.36   | 18.44   | 20.00   |
|                  |            | 1       | 24        | 18.41                | 18.45   | 18.41   | 20.00   |
| 10MHz            | QPSK       | 12      | 0         | 18.26                | 18.30   | 18.13   | 20.00   |
|                  |            | 12      | 6         | 18.42                | 18.35   | 18.28   | 20.00   |
|                  |            | 12      | 13        | 18.33                | 18.14   | 18.49   | 20.00   |
|                  |            | 25      | 0         | 18.50                | 18.32   | 18.32   | 20.00   |
|                  | 16QAM      | 1       | 0         | 18.16                | 18.38   | 18.15   | 20.00   |
|                  |            | 1       | 25        | 18.33                | 18.43   | 18.39   | 20.00   |
|                  |            | 1       | 49        | 18.24                | 18.32   | 18.24   | 20.00   |
|                  |            | 25      | 0         | 18.32                | 18.46   | 18.39   | 20.00   |
|                  |            | 25      | 13        | 18.30                | 18.17   | 18.38   | 20.00   |
|                  |            | 25      | 25        | 18.32                | 18.41   | 18.30   | 20.00   |
|                  | 64QAM      | 50      | 0         | 18.27                | 18.32   | 18.31   | 20.00   |
|                  |            | 1       | 0         | 18.33                | 18.16   | 18.34   | 20.00   |
|                  |            | 1       | 25        | 18.14                | 18.28   | 18.38   | 20.00   |
|                  |            | 1       | 49        | 18.28                | 18.40   | 18.26   | 20.00   |
|                  |            | 25      | 0         | 18.12                | 18.53   | 18.19   | 20.00   |
|                  |            | 25      | 13        | 18.38                | 18.34   | 18.30   | 20.00   |
|                  | 256QAM     | 25      | 25        | 18.35                | 18.38   | 18.35   | 20.00   |
|                  |            | 50      | 0         | 18.26                | 18.38   | 18.34   | 20.00   |
|                  |            | 1       | 0         | 18.46                | 18.29   | 18.33   | 20.00   |
|                  |            | 1       | 25        | 18.43                | 18.24   | 18.25   | 20.00   |
|                  |            | 1       | 49        | 18.47                | 18.41   | 18.33   | 20.00   |
|                  |            | 25      | 0         | 18.26                | 18.32   | 18.14   | 20.00   |
| 15MHz            | QPSK       | 25      | 13        | 18.14                | 18.17   | 18.27   | 20.00   |
|                  |            | 25      | 25        | 18.28                | 18.33   | 18.35   | 20.00   |
|                  |            | 50      | 0         | 18.18                | 18.20   | 18.42   | 20.00   |
|                  |            | 1       | 0         | 18.35                | 18.34   | 18.36   | 20.00   |
|                  |            | 1       | 25        | 18.25                | 18.39   | 18.35   | 20.00   |
|                  |            | 1       | 49        | 18.34                | 18.35   | 18.42   | 20.00   |
|                  | 16QAM      | 25      | 0         | 18.31                | 18.40   | 18.23   | 20.00   |
|                  |            | 25      | 13        | 18.33                | 18.33   | 18.26   | 20.00   |
|                  |            | 25      | 25        | 18.34                | 18.23   | 18.43   | 20.00   |
|                  |            | 50      | 0         | 18.49                | 18.41   | 18.36   | 20.00   |
|                  |            | 1       | 0         | 18.26                | 18.44   | 18.25   | 20.00   |
|                  |            | 1       | 38        | 18.23                | 18.45   | 18.33   | 20.00   |
|                  | 64QAM      | 1       | 74        | 18.25                | 18.42   | 18.32   | 20.00   |
|                  |            | 1       | 0         | 18.16                | 18.38   | 18.15   | 20.00   |
|                  |            | 1       | 25        | 18.33                | 18.43   | 18.39   | 20.00   |
|                  |            | 1       | 49        | 18.24                | 18.32   | 18.24   | 20.00   |
|                  |            | 25      | 0         | 18.32                | 18.46   | 18.39   | 20.00   |
|                  |            | 25      | 13        | 18.30                | 18.17   | 18.38   | 20.00   |
|                  | 256QAM     | 25      | 25        | 18.32                | 18.41   | 18.30   | 20.00   |
|                  |            | 50      | 0         | 18.27                | 18.32   | 18.31   | 20.00   |
|                  |            | 1       | 0         | 18.33                | 18.16   | 18.34   | 20.00   |
|                  |            | 1       | 25        | 18.14                | 18.28   | 18.38   | 20.00   |
|                  |            | 1       | 49        | 18.28                | 18.40   | 18.26   | 20.00   |
|                  |            | 25      | 0         | 18.12                | 18.53   | 18.19   | 20.00   |
|                  | QPSK       | 25      | 13        | 18.38                | 18.34   | 18.30   | 20.00   |
|                  |            | 25      | 25        | 18.35                | 18.38   | 18.35   | 20.00   |
|                  |            | 50      | 0         | 18.26                | 18.38   | 18.34   | 20.00   |
|                  |            | 1       | 0         | 18.46                | 18.29   | 18.33   | 20.00   |
|                  |            | 1       | 25        | 18.43                | 18.24   | 18.25   | 20.00   |
|                  |            | 1       | 49        | 18.47                | 18.41   | 18.33   | 20.00   |
|                  | 16QAM      | 25      | 0         | 18.26                | 18.32   | 18.14   | 20.00   |
|                  |            | 25      | 13        | 18.14                | 18.17   | 18.27   | 20.00   |
|                  |            | 25      | 25        | 18.28                | 18.33   | 18.35   | 20.00   |
|                  |            | 50      | 0         | 18.18                | 18.20   | 18.42   | 20.00   |
|                  |            | 1       | 0         | 18.35                | 18.34   | 18.36   | 20.00   |
|                  |            | 1       | 25        | 18.25                | 18.39   | 18.35   | 20.00   |
|                  | 64QAM      | 1       | 49        | 18.34                | 18.35   | 18.42   | 20.00   |
|                  |            | 25      | 0         | 18.31                | 18.40   | 18.23   | 20.00   |
|                  |            | 25      | 13        | 18.33                | 18.33   | 18.26   | 20.00   |
|                  |            | 25      | 25        | 18.34                | 18.23   | 18.43   | 20.00   |
|                  |            | 50      | 0         | 18.49                | 18.41   | 18.36   | 20.00   |
|                  |            | 1       | 0         | 18.26                | 18.44   | 18.25   | 20.00   |
|                  | 256QAM     | 1       | 38        | 18.23                | 18.45   | 18.33   | 20.00   |
|                  |            | 1       | 74        | 18.25                | 18.42   | 18.32   | 20.00   |
|                  |            | 1       | 0         | 18.16                | 18.38   | 18.15   | 20.00   |
|                  |            | 1       | 25        | 18.33                | 18.43   | 18.39   | 20.00   |
|                  |            | 1       | 49        | 18.24                | 18.32   | 18.24   | 20.00   |
|                  |            | 25      | 0         | 18.32                | 18.46   | 18.39   | 20.00   |
|                  | QPSK       | 25      | 13        | 18.30                | 18.17   | 18.38   | 20.00   |
|                  |            | 25      | 25        | 18.32                | 18.41   | 18.30   | 20.00   |
|                  |            | 50      | 0         | 18.27                | 18.32   | 18.31   | 20.00   |
|                  |            | 1       | 0         | 18.33                | 18.16   | 18.34   | 20.00   |
|                  |            | 1       | 25        | 18.14                | 18.28   | 18.38   | 20.00   |
|                  |            | 1       | 49        | 18.28                | 18.40   | 18.26   | 20.00   |
|                  | 16QAM      | 25      | 0         | 18.12                | 18.53   | 18.19   | 20.00   |
|                  |            | 25      | 13        | 18.38                | 18.34   | 18.30   | 20.00   |
|                  |            | 25      | 25        | 18.35                | 18.38   | 18.35   | 20.00   |
|                  |            | 50      | 0         | 18.26                | 18.38   | 18.34   | 20.00   |
|                  |            | 1       | 0         | 18.46                | 18.29   | 18.33   | 20.00   |
|                  |            | 1       | 25        | 18.43                | 18.24   | 18.25   | 20.00   |
|                  | 64QAM      | 1       | 49        | 18.47                | 18.41   | 18.33   | 20.00   |
|                  |            | 25      | 0         | 18.26                | 18.32   | 18.14   | 20.00   |
|                  |            | 25      | 13        | 18.14                | 18.17   | 18.27   | 20.00   |
|                  |            | 25      | 25        | 18.28                | 18.33   | 18.35   | 20.00   |
|                  |            | 50      | 0         | 18.18                | 18.20   | 18.42   | 20.00   |
|                  |            | 1       | 0         | 18.35                | 18.34   | 18.36   | 20.00   |
|                  | 256QAM     | 1       | 25        | 18.25                | 18.39   | 18.35   | 20.00   |
|                  |            | 1       | 49        | 18.34                | 18.35   | 18.42   | 20.00   |
|                  |            | 25      | 0         | 18.31                | 18.40   | 18.23   | 20.00   |
|                  |            | 25      | 13        | 18.33                | 18.33   | 18.26   | 20.00   |
|                  |            | 25      | 25        | 18.34                | 18.23   | 18.43   | 20.00   |
|                  |            | 50      | 0         | 18.49                | 18.41   | 18.36   | 20.00   |
| 15MHz            | QPSK       | 1       | 0         | 18.26                | 18.44   | 18.25   | 20.00   |
|                  |            | 1       | 38        | 18.23                | 18.45   | 18.33   | 20.00   |
| 15MHz            | QPSK       | 1       | 74        | 18.25                | 18.42   | 18.32   | 20.00   |
|                  |            | 1       | 0         | 18.16                | 18.38   | 18.15   | 20.00   |
|                  | 16QAM      | 1       | 25        | 18.33                | 18.43   | 18.39   | 20.00   |
|                  |            | 1       | 49        | 18.24                | 18.32   | 18.24   | 20.00   |
|                  | 64QAM      | 25      | 0         | 18.32                | 18.46   | 18.39   | 20.00   |
|                  |            | 25      | 13        | 18.30                | 18.17   | 18.38   | 20.00   |
|                  | 256QAM     | 25      | 25        | 18.32                | 18.41   | 18.30   | 20.00   |
|                  |            | 50      | 0         | 18.27                | 18.32   | 18.31   | 20.00   |
|                  | QPSK       | 1       | 0         | 18.33                | 18.16   | 18.34   | 20.00   |
|                  |            | 1       | 25        | 18.14                | 18.28   | 18.38   | 20.00   |
|                  | 16QAM      | 1       | 49        | 18.28                | 18.40   | 18.26   | 20.00   |
|                  |            | 25      | 0         | 18.12                | 18.53   | 18.19   | 20.00   |
|                  | 64QAM      | 25      | 13        | 18.38                | 18.34   | 18.30   | 20.00   |
|                  |            | 25      | 25        | 18.35                | 18.38   | 18.35   | 20.00   |
|                  | 256QAM     | 50      | 0         | 18.26                | 18.38   | 18.34   | 20.00   |
|                  |            | 1       | 0         | 18.46                | 18.29   | 18.33   | 20.00   |
|                  | QPSK       | 1       | 25        | 18.43                | 18.24   | 18.25   | 20.00   |
|                  |            | 1       | 49        | 18.47                | 18.41   | 18.33   | 20.00   |
|                  | 16QAM      | 25      | 0         | 18.26                | 18.32   | 18.14   | 20.00   |
|                  |            | 25      | 13        | 18.14                | 18.17   | 18.27   | 20.00   |
|                  | 64QAM      | 25      | 25        | 18.28                | 18.33   | 18.35   | 20.00   |
|                  |            | 50      | 0         | 18.18                | 18.20   | 18.42   | 20.00   |
|                  | 256QAM     | 1       | 0         | 18.35                | 18.34   | 18.36   | 20.00   |
|                  |            | 1       | 25        | 18.25                | 18.39   | 18.35   | 20.00   |
|                  | QPSK       | 1       | 49        | 18.34                | 18.35   | 18.42   | 20.00   |
|                  |            | 25      | 0         | 18.31                | 18.40   | 18.23   | 20.00   |
|                  | 16QAM      | 25      | 13        | 18.33                | 18.33   | 18.26   | 20.00   |
|                  |            | 25      | 25        | 18.34                | 18.23   | 18.43   | 20.00   |
|                  | 64QAM      | 50      | 0         | 18.49                | 18.41   | 18.36   | 20.00   |
|                  |            | 1       | 0         | 18.26                | 18.44   | 18.25   | 20.00   |
|                  | 256QAM     | 1       | 38        | 18.23                | 18.45   | 18.33   | 20.00   |
|                  |            | 1       | 74        | 18.25                | 18.42   | 18.32   | 20.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 0         | 18.31   | 18.36   | 18.31   | 20.00   |
|           |            | 36      | 18        | 18.38   | 18.27   | 18.41   | 20.00   |
|           |            | 36      | 39        | 18.36   | 18.45   | 18.25   | 20.00   |
|           |            | 75      | 0         | 18.29   | 18.25   | 18.29   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.28   | 18.26   | 18.25   | 20.00   |
|           |            | 1       | 38        | 18.24   | 18.33   | 18.37   | 20.00   |
|           |            | 1       | 74        | 18.28   | 18.38   | 18.22   | 20.00   |
|           |            | 36      | 0         | 18.14   | 18.44   | 18.29   | 20.00   |
|           |            | 36      | 18        | 18.38   | 18.26   | 18.27   | 20.00   |
|           |            | 36      | 39        | 18.30   | 18.32   | 18.38   | 20.00   |
|           |            | 75      | 0         | 18.17   | 18.34   | 18.30   | 20.00   |
|           |            | 75      | 0         | 18.17   | 18.34   | 18.30   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.40   | 18.21   | 18.24   | 20.00   |
|           |            | 1       | 38        | 18.44   | 18.29   | 18.23   | 20.00   |
|           |            | 1       | 74        | 18.40   | 18.32   | 18.28   | 20.00   |
|           |            | 36      | 0         | 18.34   | 18.27   | 18.21   | 20.00   |
|           |            | 36      | 18        | 18.21   | 18.16   | 18.20   | 20.00   |
|           |            | 36      | 39        | 18.23   | 18.37   | 18.26   | 20.00   |
|           |            | 75      | 0         | 18.22   | 18.19   | 18.33   | 20.00   |
|           |            | 75      | 0         | 18.22   | 18.19   | 18.33   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.26   | 18.26   | 18.28   | 20.00   |
|           |            | 1       | 38        | 18.23   | 18.29   | 18.27   | 20.00   |
|           |            | 1       | 74        | 18.37   | 18.34   | 18.34   | 20.00   |
|           |            | 36      | 0         | 18.21   | 18.32   | 18.20   | 20.00   |
|           |            | 36      | 18        | 18.23   | 18.34   | 18.30   | 20.00   |
|           |            | 36      | 39        | 18.33   | 18.26   | 18.38   | 20.00   |
|           |            | 75      | 0         | 18.44   | 18.34   | 18.32   | 20.00   |
|           |            | 75      | 0         | 18.44   | 18.34   | 18.32   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 41690   | 42590   | 43490   |         |
| 20MHz     | QPSK       | 1       | 0         | 18.34   | 18.42   | 18.25   | 20.00   |
|           |            | 1       | 50        | 18.31   | 18.36   | 18.30   | 20.00   |
|           |            | 1       | 99        | 18.24   | 18.35   | 18.27   | 20.00   |
|           |            | 50      | 0         | 18.25   | 18.27   | 18.22   | 20.00   |
|           |            | 50      | 25        | 18.28   | 18.18   | 18.34   | 20.00   |
|           |            | 50      | 50        | 18.32   | 18.35   | 18.32   | 20.00   |
|           |            | 100     | 0         | 18.32   | 18.26   | 18.33   | 20.00   |
|           |            | 100     | 0         | 18.32   | 18.26   | 18.33   | 20.00   |
|           | 16QAM      | 1       | 0         | 18.27   | 18.26   | 18.26   | 20.00   |
|           |            | 1       | 50        | 18.34   | 18.31   | 18.32   | 20.00   |
|           |            | 1       | 99        | 18.26   | 18.31   | 18.29   | 20.00   |
|           |            | 50      | 0         | 18.23   | 18.36   | 18.28   | 20.00   |
|           |            | 50      | 25        | 18.28   | 18.34   | 18.21   | 20.00   |
|           |            | 50      | 50        | 18.28   | 18.26   | 18.31   | 20.00   |
|           |            | 100     | 0         | 18.25   | 18.33   | 18.31   | 20.00   |
|           |            | 100     | 0         | 18.25   | 18.33   | 18.31   | 20.00   |
|           | 64QAM      | 1       | 0         | 18.35   | 18.31   | 18.28   | 20.00   |
|           |            | 1       | 50        | 18.35   | 18.28   | 18.29   | 20.00   |
|           |            | 1       | 99        | 18.33   | 18.27   | 18.32   | 20.00   |
|           |            | 50      | 0         | 18.30   | 18.31   | 18.29   | 20.00   |
|           |            | 50      | 25        | 18.31   | 18.26   | 18.28   | 20.00   |
|           |            | 50      | 50        | 18.25   | 18.30   | 18.20   | 20.00   |
|           |            | 100     | 0         | 18.27   | 18.28   | 18.27   | 20.00   |
|           |            | 100     | 0         | 18.27   | 18.28   | 18.27   | 20.00   |
|           | 256QAM     | 1       | 0         | 18.34   | 18.22   | 18.33   | 20.00   |
|           |            | 1       | 50        | 18.28   | 18.26   | 18.27   | 20.00   |
|           |            | 1       | 99        | 18.27   | 18.25   | 18.28   | 20.00   |
|           |            | 50      | 0         | 18.30   | 18.32   | 18.29   | 20.00   |
|           |            | 50      | 25        | 18.29   | 18.31   | 18.23   | 20.00   |
|           |            | 50      | 50        | 18.25   | 18.29   | 18.28   | 20.00   |
|           |            | 100     | 0         | 18.35   | 18.33   | 18.29   | 20.00   |
|           |            | 100     | 0         | 18.35   | 18.33   | 18.29   | 20.00   |

| LTE Band 42 Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 41615                | 42590   | 43565   |         |
| 5MHz                          | QPSK       | 1       | 0         | 16.16                | 16.31   | 16.17   | 18.00   |
|                               |            | 1       | 13        | 16.38                | 16.31   | 16.25   | 18.00   |
|                               |            | 1       | 24        | 16.07                | 16.33   | 16.28   | 18.00   |
|                               |            | 12      | 0         | 16.11                | 16.23   | 16.20   | 18.00   |
|                               |            | 12      | 6         | 16.35                | 16.24   | 16.45   | 18.00   |
|                               |            | 12      | 13        | 16.44                | 16.35   | 16.35   | 18.00   |
|                               |            | 25      | 0         | 16.28                | 16.14   | 16.21   | 18.00   |
|                               |            | 25      | 0         | 16.28                | 16.14   | 16.21   | 18.00   |
|                               | 16QAM      | 1       | 0         | 16.25                | 16.13   | 16.25   | 18.00   |
|                               |            | 1       | 13        | 16.39                | 16.46   | 16.22   | 18.00   |
|                               |            | 1       | 13        | 16.39                | 16.46   | 16.22   | 18.00   |
|                               |            | 1       | 13        | 16.39                | 16.46   | 16.22   | 18.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 24        | 16.25   | 16.22   | 16.34   | 18.00   |
|           |            | 12      | 0         | 16.34   | 16.25   | 16.02   | 18.00   |
|           |            | 12      | 6         | 16.32   | 16.35   | 16.33   | 18.00   |
|           |            | 12      | 13        | 16.30   | 16.15   | 16.41   | 18.00   |
|           |            | 25      | 0         | 16.31   | 16.32   | 16.40   | 18.00   |
|           | 64QAM      | 1       | 0         | 16.24   | 16.24   | 16.22   | 18.00   |
|           |            | 1       | 13        | 16.44   | 16.37   | 16.30   | 18.00   |
|           |            | 1       | 24        | 16.29   | 16.25   | 16.16   | 18.00   |
|           |            | 12      | 0         | 16.28   | 16.32   | 16.26   | 18.00   |
|           |            | 12      | 6         | 16.44   | 16.16   | 16.35   | 18.00   |
|           | 256QAM     | 12      | 13        | 16.16   | 16.06   | 16.03   | 18.00   |
|           |            | 25      | 0         | 16.14   | 16.22   | 16.17   | 18.00   |
|           |            | 1       | 0         | 16.59   | 16.23   | 16.37   | 18.00   |
|           |            | 1       | 13        | 16.26   | 16.29   | 16.25   | 18.00   |
|           |            | 1       | 24        | 16.19   | 16.26   | 16.06   | 18.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 41640   | 42590   | 43540   |         |
| 10MHz     | QPSK       | 1       | 0         | 16.21   | 16.28   | 16.22   | 18.00   |
|           |            | 1       | 25        | 16.44   | 16.28   | 16.29   | 18.00   |
|           |            | 1       | 49        | 16.13   | 16.34   | 16.24   | 18.00   |
|           |            | 25      | 0         | 16.09   | 16.17   | 16.18   | 18.00   |
|           |            | 25      | 13        | 16.29   | 16.29   | 16.35   | 18.00   |
|           |            | 25      | 25        | 16.42   | 16.35   | 16.45   | 18.00   |
|           | 16QAM      | 50      | 0         | 16.26   | 16.21   | 16.12   | 18.00   |
|           |            | 1       | 0         | 16.20   | 16.21   | 16.23   | 18.00   |
|           |            | 1       | 25        | 16.45   | 16.40   | 16.13   | 18.00   |
|           |            | 1       | 49        | 16.35   | 16.25   | 16.35   | 18.00   |
|           |            | 25      | 0         | 16.24   | 16.34   | 16.10   | 18.00   |
|           |            | 25      | 13        | 16.28   | 16.30   | 16.25   | 18.00   |
|           | 64QAM      | 25      | 25        | 16.32   | 16.15   | 16.38   | 18.00   |
|           |            | 50      | 0         | 16.21   | 16.29   | 16.33   | 18.00   |
|           |            | 1       | 0         | 16.22   | 16.29   | 16.17   | 18.00   |
|           |            | 1       | 25        | 16.36   | 16.42   | 16.20   | 18.00   |
|           |            | 1       | 49        | 16.29   | 16.20   | 16.23   | 18.00   |
|           |            | 25      | 0         | 16.33   | 16.24   | 16.33   | 18.00   |
|           | 256QAM     | 25      | 13        | 16.34   | 16.17   | 16.37   | 18.00   |
|           |            | 25      | 25        | 16.17   | 16.15   | 16.07   | 18.00   |
|           |            | 50      | 0         | 16.13   | 16.30   | 16.19   | 18.00   |
|           |            | 1       | 0         | 16.51   | 16.27   | 16.29   | 18.00   |
|           |            | 1       | 25        | 16.19   | 16.29   | 16.33   | 18.00   |
|           |            | 1       | 49        | 16.29   | 16.28   | 16.12   | 18.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 41665   | 42590   | 43515   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.27   | 16.38   | 16.29   | 18.00   |
|           |            | 1       | 38        | 16.34   | 16.33   | 16.22   | 18.00   |
|           |            | 1       | 74        | 16.15   | 16.28   | 16.22   | 18.00   |
|           |            | 36      | 0         | 16.15   | 16.23   | 16.19   | 18.00   |
|           |            | 36      | 18        | 16.28   | 16.28   | 16.26   | 18.00   |
|           |            | 36      | 39        | 16.37   | 16.28   | 16.40   | 18.00   |
|           | 16QAM      | 75      | 0         | 16.33   | 16.24   | 16.22   | 18.00   |
|           |            | 1       | 0         | 16.26   | 16.16   | 16.24   | 18.00   |
|           |            | 1       | 38        | 16.38   | 16.35   | 16.23   | 18.00   |
|           |            | 1       | 74        | 16.25   | 16.34   | 16.31   | 18.00   |
|           |            | 36      | 0         | 16.27   | 16.40   | 16.19   | 18.00   |
|           |            | 36      | 18        | 16.31   | 16.38   | 16.23   | 18.00   |
|           | 64QAM      | 36      | 39        | 16.23   | 16.14   | 16.32   | 18.00   |
|           |            | 75      | 0         | 16.22   | 16.27   | 16.39   | 18.00   |
|           |            | 1       | 0         | 16.27   | 16.25   | 16.27   | 18.00   |
|           |            | 1       | 38        | 16.32   | 16.34   | 16.16   | 18.00   |
|           |            | 1       | 74        | 16.23   | 16.21   | 16.25   | 18.00   |
|           |            | 36      | 0         | 16.25   | 16.30   | 16.38   | 18.00   |
|           |            | 36      | 18        | 16.36   | 16.26   | 16.32   | 18.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           | 256QAM     | 36      | 39        | 16.27   | 16.25   | 16.11   | 18.00   |
|           |            | 75      | 0         | 16.16   | 16.30   | 16.20   | 18.00   |
|           |            | 1       | 0         | 16.42   | 16.27   | 16.29   | 18.00   |
|           |            | 1       | 38        | 16.22   | 16.22   | 16.25   | 18.00   |
|           |            | 1       | 74        | 16.29   | 16.28   | 16.22   | 18.00   |
|           |            | 36      | 0         | 16.23   | 16.39   | 16.39   | 18.00   |
|           |            | 36      | 18        | 16.16   | 16.37   | 16.15   | 18.00   |
|           |            | 36      | 39        | 16.25   | 16.20   | 16.37   | 18.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 41690   | 42590   | 43490   |         |
| 20MHz     | QPSK       | 1       | 0         | 16.83   | 16.88   | 16.77   | 18.00   |
|           |            | 1       | 50        | 16.77   | 16.87   | 16.78   | 18.00   |
|           |            | 1       | 99        | 16.71   | 16.85   | 16.76   | 18.00   |
|           |            | 50      | 0         | 16.75   | 16.78   | 16.68   | 18.00   |
|           |            | 50      | 25        | 16.79   | 16.69   | 16.81   | 18.00   |
|           |            | 50      | 50        | 16.84   | 16.81   | 16.83   | 18.00   |
|           | 16QAM      | 100     | 0         | 16.85   | 16.73   | 16.79   | 18.00   |
|           |            | 1       | 0         | 16.78   | 16.72   | 16.73   | 18.00   |
|           |            | 1       | 50        | 16.80   | 16.82   | 16.78   | 18.00   |
|           |            | 1       | 99        | 16.73   | 16.81   | 16.77   | 18.00   |
|           |            | 50      | 0         | 16.69   | 16.85   | 16.78   | 18.00   |
|           |            | 50      | 25        | 16.80   | 16.86   | 16.71   | 18.00   |
|           | 64QAM      | 50      | 50        | 16.79   | 16.72   | 16.84   | 18.00   |
|           |            | 100     | 0         | 16.72   | 16.84   | 16.81   | 18.00   |
|           |            | 1       | 0         | 16.85   | 16.80   | 16.81   | 18.00   |
|           |            | 1       | 50        | 16.83   | 16.74   | 16.76   | 18.00   |
|           |            | 1       | 99        | 16.81   | 16.78   | 16.85   | 18.00   |
|           |            | 50      | 0         | 16.81   | 16.80   | 16.80   | 18.00   |
|           | 256QAM     | 50      | 25        | 16.84   | 16.72   | 16.77   | 18.00   |
|           |            | 50      | 50        | 16.71   | 16.76   | 16.71   | 18.00   |
|           |            | 100     | 0         | 16.76   | 16.79   | 16.77   | 18.00   |
|           |            | 1       | 0         | 16.86   | 16.70   | 16.84   | 18.00   |
|           |            | 1       | 50        | 16.73   | 16.76   | 16.76   | 18.00   |
|           |            | 1       | 99        | 16.77   | 16.77   | 16.75   | 18.00   |
|           | 256QAM     | 50      | 0         | 16.77   | 16.81   | 16.80   | 18.00   |
|           |            | 50      | 25        | 16.76   | 16.84   | 16.71   | 18.00   |
|           |            | 50      | 50        | 16.72   | 16.78   | 16.79   | 18.00   |
|           |            | 100     | 0         | 16.88   | 16.79   | 16.74   | 18.00   |

| LTE Band 43 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 43615                | 44590   | 45565   |         |
| 5MHz             | QPSK       | 1       | 0         | 17.74                | 17.70   | 17.70   | 19.50   |
|                  |            | 1       | 13        | 18.00                | 17.74   | 17.77   | 19.50   |
|                  |            | 1       | 24        | 17.88                | 17.97   | 17.67   | 19.50   |
|                  |            | 12      | 0         | 17.83                | 17.68   | 17.82   | 19.50   |
|                  |            | 12      | 6         | 17.73                | 17.78   | 17.74   | 19.50   |
|                  |            | 12      | 13        | 17.60                | 17.91   | 17.68   | 19.50   |
|                  | 16QAM      | 25      | 0         | 17.64                | 17.78   | 17.90   | 19.50   |
|                  |            | 1       | 0         | 17.79                | 17.71   | 17.91   | 19.50   |
|                  |            | 1       | 13        | 17.73                | 17.80   | 17.80   | 19.50   |
|                  |            | 1       | 24        | 17.84                | 17.87   | 17.90   | 19.50   |
|                  |            | 12      | 0         | 17.79                | 17.70   | 17.80   | 19.50   |
|                  |            | 12      | 6         | 17.83                | 17.90   | 17.82   | 19.50   |
|                  | 64QAM      | 12      | 13        | 17.99                | 17.69   | 17.87   | 19.50   |
|                  |            | 25      | 0         | 17.89                | 17.84   | 17.77   | 19.50   |
|                  |            | 1       | 0         | 17.96                | 17.99   | 17.88   | 19.50   |
|                  |            | 1       | 13        | 17.81                | 17.73   | 17.81   | 19.50   |
|                  |            | 1       | 24        | 17.89                | 17.90   | 17.94   | 19.50   |
|                  |            | 12      | 0         | 17.65                | 17.67   | 17.62   | 19.50   |
|                  | 256QAM     | 12      | 6         | 17.90                | 17.87   | 17.68   | 19.50   |
|                  |            | 12      | 13        | 18.02                | 17.80   | 17.65   | 19.50   |
|                  |            | 25      | 0         | 17.70                | 17.96   | 17.67   | 19.50   |
|                  |            | 1       | 0         | 17.83                | 17.92   | 17.60   | 19.50   |
|                  |            | 1       | 13        | 17.87                | 17.79   | 17.87   | 19.50   |
|                  |            | 1       | 24        | 17.75                | 17.62   | 17.69   | 19.50   |
|                  |            | 12      | 0         | 17.72                | 17.64   | 17.94   | 19.50   |

|           |            | 12      | 6         | 17.81   | 17.76   | 17.71   | 19.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 13        | 17.66   | 17.82   | 17.69   | 19.50   |
|           |            | 25      | 0         | 17.69   | 17.89   | 17.78   | 19.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 43640   | 44590   | 45540   |         |
| 10MHz     | QPSK       | 1       | 0         | 17.84   | 17.74   | 17.64   | 19.50   |
|           |            | 1       | 25        | 17.90   | 17.75   | 17.79   | 19.50   |
|           |            | 1       | 49        | 17.86   | 17.87   | 17.74   | 19.50   |
|           |            | 25      | 0         | 17.84   | 17.64   | 17.74   | 19.50   |
|           |            | 25      | 13        | 17.76   | 17.85   | 17.74   | 19.50   |
|           |            | 25      | 25        | 17.64   | 17.82   | 17.67   | 19.50   |
|           |            | 50      | 0         | 17.61   | 17.84   | 17.80   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.71   | 17.72   | 17.91   | 19.50   |
|           |            | 1       | 25        | 17.82   | 17.75   | 17.78   | 19.50   |
|           |            | 1       | 49        | 17.81   | 17.83   | 17.90   | 19.50   |
|           |            | 25      | 0         | 17.79   | 17.80   | 17.79   | 19.50   |
|           |            | 25      | 13        | 17.89   | 17.82   | 17.77   | 19.50   |
|           |            | 25      | 25        | 17.90   | 17.75   | 17.81   | 19.50   |
|           |            | 50      | 0         | 17.86   | 17.77   | 17.86   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.96   | 17.89   | 17.87   | 19.50   |
|           |            | 1       | 25        | 17.75   | 17.83   | 17.84   | 19.50   |
|           |            | 1       | 49        | 17.84   | 17.91   | 17.88   | 19.50   |
|           |            | 25      | 0         | 17.75   | 17.72   | 17.68   | 19.50   |
|           |            | 25      | 13        | 17.85   | 17.83   | 17.67   | 19.50   |
|           |            | 25      | 25        | 17.96   | 17.75   | 17.63   | 19.50   |
|           |            | 50      | 0         | 17.78   | 17.92   | 17.77   | 19.50   |
|           | 256QAM     | 1       | 0         | 17.90   | 17.85   | 17.70   | 19.50   |
|           |            | 1       | 25        | 17.83   | 17.76   | 17.84   | 19.50   |
|           |            | 1       | 49        | 17.76   | 17.63   | 17.76   | 19.50   |
|           |            | 25      | 0         | 17.75   | 17.71   | 17.91   | 19.50   |
|           |            | 25      | 13        | 17.79   | 17.81   | 17.61   | 19.50   |
|           |            | 25      | 25        | 17.72   | 17.86   | 17.79   | 19.50   |
|           |            | 50      | 0         | 17.67   | 17.89   | 17.81   | 19.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 43665   | 44590   | 45515   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.94   | 17.79   | 17.71   | 19.50   |
|           |            | 1       | 38        | 17.86   | 17.81   | 17.77   | 19.50   |
|           |            | 1       | 74        | 17.84   | 17.77   | 17.76   | 19.50   |
|           |            | 36      | 0         | 17.77   | 17.71   | 17.80   | 19.50   |
|           |            | 36      | 18        | 17.81   | 17.89   | 17.80   | 19.50   |
|           |            | 36      | 39        | 17.70   | 17.82   | 17.71   | 19.50   |
|           |            | 75      | 0         | 17.67   | 17.88   | 17.82   | 19.50   |
|           | 16QAM      | 1       | 0         | 17.79   | 17.74   | 17.89   | 19.50   |
|           |            | 1       | 38        | 17.79   | 17.71   | 17.81   | 19.50   |
|           |            | 1       | 74        | 17.77   | 17.74   | 17.80   | 19.50   |
|           |            | 36      | 0         | 17.76   | 17.78   | 17.72   | 19.50   |
|           |            | 36      | 18        | 17.86   | 17.91   | 17.79   | 19.50   |
|           |            | 36      | 39        | 17.81   | 17.74   | 17.80   | 19.50   |
|           |            | 75      | 0         | 17.80   | 17.71   | 17.84   | 19.50   |
|           | 64QAM      | 1       | 0         | 17.92   | 17.92   | 17.77   | 19.50   |
|           |            | 1       | 38        | 17.68   | 17.84   | 17.80   | 19.50   |
|           |            | 1       | 74        | 17.75   | 17.87   | 17.85   | 19.50   |
|           |            | 36      | 0         | 17.74   | 17.72   | 17.76   | 19.50   |
|           |            | 36      | 18        | 17.86   | 17.78   | 17.69   | 19.50   |
|           |            | 36      | 39        | 17.87   | 17.75   | 17.65   | 19.50   |
|           |            | 75      | 0         | 17.84   | 17.85   | 17.77   | 19.50   |
|           | 256QAM     | 1       | 0         | 17.87   | 17.79   | 17.74   | 19.50   |
|           |            | 1       | 38        | 17.89   | 17.77   | 17.87   | 19.50   |
|           |            | 1       | 74        | 17.69   | 17.73   | 17.72   | 19.50   |
|           |            | 36      | 0         | 17.76   | 17.73   | 17.82   | 19.50   |
|           |            | 36      | 18        | 17.89   | 17.89   | 17.71   | 19.50   |
|           |            | 36      | 39        | 17.81   | 17.83   | 17.82   | 19.50   |
|           |            | 75      | 0         | 17.63   | 17.89   | 17.78   | 19.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 43690   | 44590   | 45490   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.86   | 17.89   | 17.77   | 19.50   |
|           |            | 1       | 50        | 17.80   | 17.78   | 17.79   | 19.50   |
|           |            | 1       | 99        | 17.75   | 17.81   | 17.74   | 19.50   |
|           |            | 50      | 0         | 17.70   | 17.74   | 17.81   | 19.50   |
|           |            | 50      | 25        | 17.83   | 17.80   | 17.77   | 19.50   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 50  | 50 | 17.73 | 17.88 | 17.80 | 19.50 |
|  |        | 100 | 0  | 17.73 | 17.84 | 17.83 | 19.50 |
|  | 16QAM  | 1   | 0  | 17.82 | 17.75 | 17.81 | 19.50 |
|  |        | 1   | 50 | 17.85 | 17.77 | 17.76 | 19.50 |
|  |        | 1   | 99 | 17.71 | 17.76 | 17.76 | 19.50 |
|  |        | 50  | 0  | 17.83 | 17.82 | 17.82 | 19.50 |
|  |        | 50  | 25 | 17.82 | 17.83 | 17.73 | 19.50 |
|  |        | 50  | 50 | 17.76 | 17.81 | 17.80 | 19.50 |
|  |        | 100 | 0  | 17.72 | 17.74 | 17.80 | 19.50 |
|  |        | 1   | 0  | 17.82 | 17.85 | 17.75 | 19.50 |
|  | 64QAM  | 1   | 50 | 17.75 | 17.80 | 17.79 | 19.50 |
|  |        | 1   | 99 | 17.75 | 17.81 | 17.81 | 19.50 |
|  |        | 50  | 0  | 17.79 | 17.74 | 17.80 | 19.50 |
|  |        | 50  | 25 | 17.79 | 17.79 | 17.71 | 19.50 |
|  |        | 50  | 50 | 17.80 | 17.74 | 17.73 | 19.50 |
|  |        | 100 | 0  | 17.77 | 17.77 | 17.83 | 19.50 |
|  | 256QAM | 1   | 0  | 17.84 | 17.79 | 17.81 | 19.50 |
|  |        | 1   | 50 | 17.79 | 17.82 | 17.85 | 19.50 |
|  |        | 1   | 99 | 17.77 | 17.75 | 17.80 | 19.50 |
|  |        | 50  | 0  | 17.76 | 17.75 | 17.74 | 19.50 |
|  |        | 50  | 25 | 17.83 | 17.87 | 17.79 | 19.50 |
|  |        | 50  | 50 | 17.78 | 17.78 | 17.78 | 19.50 |
|  |        | 100 | 0  | 17.70 | 17.81 | 17.76 | 19.50 |

| LTE Band 43 Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 43615                | 44590   | 45565   |         |
| 5MHz                          | QPSK       | 1       | 0         | 17.04                | 17.09   | 16.57   | 18.50   |
|                               |            | 1       | 13        | 16.83                | 16.82   | 16.79   | 18.50   |
|                               |            | 1       | 24        | 16.78                | 16.69   | 16.84   | 18.50   |
|                               |            | 12      | 0         | 16.61                | 16.75   | 16.88   | 18.50   |
|                               |            | 12      | 6         | 16.89                | 16.96   | 16.73   | 18.50   |
|                               |            | 12      | 13        | 16.66                | 16.77   | 16.73   | 18.50   |
|                               |            | 25      | 0         | 16.73                | 16.80   | 16.94   | 18.50   |
|                               | 16QAM      | 1       | 0         | 16.56                | 16.45   | 16.74   | 18.50   |
|                               |            | 1       | 13        | 17.09                | 16.99   | 16.70   | 18.50   |
|                               |            | 1       | 24        | 16.79                | 16.91   | 16.79   | 18.50   |
|                               |            | 12      | 0         | 16.83                | 17.02   | 17.00   | 18.50   |
|                               |            | 12      | 6         | 16.75                | 17.10   | 16.56   | 18.50   |
|                               |            | 12      | 13        | 16.74                | 16.72   | 17.02   | 18.50   |
|                               | 64QAM      | 25      | 0         | 16.65                | 16.63   | 16.88   | 18.50   |
|                               |            | 1       | 0         | 16.93                | 16.88   | 16.72   | 18.50   |
|                               |            | 1       | 13        | 16.73                | 16.50   | 16.76   | 18.50   |
|                               |            | 1       | 24        | 16.73                | 16.96   | 16.63   | 18.50   |
|                               |            | 12      | 0         | 16.90                | 16.77   | 16.59   | 18.50   |
|                               |            | 12      | 6         | 16.87                | 16.93   | 16.59   | 18.50   |
|                               | 256QAM     | 12      | 13        | 16.69                | 16.63   | 16.96   | 18.50   |
|                               |            | 25      | 0         | 16.74                | 16.89   | 16.97   | 18.50   |
|                               |            | 1       | 0         | 16.86                | 16.86   | 16.75   | 18.50   |
|                               |            | 1       | 13        | 16.82                | 16.71   | 16.92   | 18.50   |
|                               |            | 1       | 24        | 16.87                | 16.70   | 16.89   | 18.50   |
|                               |            | 12      | 0         | 16.84                | 16.73   | 16.87   | 18.50   |
|                               |            | 12      | 6         | 16.87                | 16.80   | 16.71   | 18.50   |
| 10MHz                         | QPSK       | 12      | 13        | 16.85                | 16.83   | 16.79   | 18.50   |
|                               |            | 25      | 0         | 16.63                | 16.89   | 16.89   | 18.50   |
|                               |            | 1       | 0         | 16.96                | 17.02   | 16.66   | 18.50   |
|                               |            | 1       | 25        | 16.86                | 16.85   | 16.77   | 18.50   |
|                               |            | 1       | 49        | 16.73                | 16.77   | 16.74   | 18.50   |
|                               |            | 25      | 0         | 16.64                | 16.79   | 16.82   | 18.50   |
|                               |            | 25      | 13        | 16.96                | 16.90   | 16.72   | 18.50   |
|                               | 16QAM      | 25      | 25        | 16.75                | 16.79   | 16.80   | 18.50   |
|                               |            | 50      | 0         | 16.81                | 16.78   | 16.98   | 18.50   |
|                               |            | 1       | 0         | 16.66                | 16.55   | 16.74   | 18.50   |
|                               |            | 1       | 25        | 17.00                | 16.94   | 16.79   | 18.50   |
|                               |            | 1       | 49        | 16.73                | 16.92   | 16.74   | 18.50   |
|                               |            | 25      | 0         | 16.79                | 16.94   | 16.97   | 18.50   |

|           |            |         |           |                  |                  |                  |         |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 25      | 13        | 16.65            | 17.00            | 16.55            | 18.50   |
|           |            | 25      | 25        | 16.66            | 16.72            | 16.97            | 18.50   |
|           |            | 50      | 0         | 16.67            | 16.64            | 16.84            | 18.50   |
|           | 64QAM      | 1       | 0         | 16.83            | 16.84            | 16.77            | 18.50   |
|           |            | 1       | 25        | 16.68            | 16.58            | 16.83            | 18.50   |
|           |            | 1       | 49        | 16.77            | 16.87            | 16.69            | 18.50   |
|           |            | 25      | 0         | 16.89            | 16.84            | 16.61            | 18.50   |
|           |            | 25      | 13        | 16.80            | 16.84            | 16.55            | 18.50   |
|           |            | 25      | 25        | 16.67            | 16.69            | 16.91            | 18.50   |
|           |            | 50      | 0         | 16.74            | 16.81            | 16.87            | 18.50   |
|           |            | 1       | 0         | 16.84            | 16.76            | 16.72            | 18.50   |
|           | 256QAM     | 1       | 25        | 16.90            | 16.65            | 16.83            | 18.50   |
|           |            | 1       | 49        | 16.85            | 16.71            | 16.82            | 18.50   |
|           |            | 25      | 0         | 16.87            | 16.67            | 16.82            | 18.50   |
|           |            | 25      | 13        | 16.79            | 16.73            | 16.78            | 18.50   |
|           |            | 25      | 25        | 16.77            | 16.93            | 16.79            | 18.50   |
|           |            | 50      | 0         | 16.67            | 16.85            | 16.92            | 18.50   |
|           |            | 50      | 0         | 16.67            | 16.85            | 16.92            | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>43665 | Channel<br>44590 | Channel<br>45515 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 16.86            | 17.00            | 16.76            | 18.50   |
|           |            | 1       | 38        | 16.85            | 16.76            | 16.80            | 18.50   |
|           |            | 1       | 74        | 16.76            | 16.72            | 16.72            | 18.50   |
|           |            | 36      | 0         | 16.68            | 16.71            | 16.77            | 18.50   |
|           |            | 36      | 18        | 16.95            | 16.82            | 16.79            | 18.50   |
|           |            | 36      | 39        | 16.76            | 16.80            | 16.78            | 18.50   |
|           |            | 75      | 0         | 16.77            | 16.85            | 16.88            | 18.50   |
|           | 16QAM      | 1       | 0         | 16.72            | 16.65            | 16.69            | 18.50   |
|           |            | 1       | 38        | 16.90            | 16.84            | 16.71            | 18.50   |
|           |            | 1       | 74        | 16.72            | 16.88            | 16.75            | 18.50   |
|           |            | 36      | 0         | 16.81            | 16.93            | 16.88            | 18.50   |
|           |            | 36      | 18        | 16.72            | 16.92            | 16.59            | 18.50   |
|           |            | 36      | 39        | 16.71            | 16.82            | 16.90            | 18.50   |
|           |            | 75      | 0         | 16.70            | 16.66            | 16.86            | 18.50   |
|           | 64QAM      | 1       | 0         | 16.76            | 16.86            | 16.78            | 18.50   |
|           |            | 1       | 38        | 16.69            | 16.67            | 16.87            | 18.50   |
|           |            | 1       | 74        | 16.83            | 16.78            | 16.71            | 18.50   |
|           |            | 36      | 0         | 16.85            | 16.93            | 16.70            | 18.50   |
|           |            | 36      | 18        | 16.76            | 16.82            | 16.64            | 18.50   |
|           |            | 36      | 39        | 16.72            | 16.71            | 16.83            | 18.50   |
|           |            | 75      | 0         | 16.75            | 16.73            | 16.88            | 18.50   |
|           | 256QAM     | 1       | 0         | 16.86            | 16.78            | 16.75            | 18.50   |
|           |            | 1       | 38        | 16.81            | 16.70            | 16.90            | 18.50   |
|           |            | 1       | 74        | 16.81            | 16.75            | 16.72            | 18.50   |
|           |            | 36      | 0         | 16.82            | 16.73            | 16.82            | 18.50   |
|           |            | 36      | 18        | 16.89            | 16.78            | 16.75            | 18.50   |
|           |            | 36      | 39        | 16.77            | 16.89            | 16.76            | 18.50   |
|           |            | 75      | 0         | 16.76            | 16.88            | 16.85            | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>43690 | Channel<br>44590 | Channel<br>45490 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 17.22            | 17.30            | 17.15            | 18.50   |
|           |            | 1       | 50        | 17.15            | 17.17            | 17.15            | 18.50   |
|           |            | 1       | 99        | 17.14            | 17.22            | 17.09            | 18.50   |
|           |            | 50      | 0         | 17.10            | 17.26            | 17.21            | 18.50   |
|           |            | 50      | 25        | 17.26            | 17.16            | 17.20            | 18.50   |
|           |            | 50      | 50        | 17.10            | 17.28            | 17.22            | 18.50   |
|           |            | 100     | 0         | 17.08            | 17.20            | 17.20            | 18.50   |
|           | 16QAM      | 1       | 0         | 17.18            | 17.13            | 17.17            | 18.50   |
|           |            | 1       | 50        | 17.27            | 17.16            | 17.12            | 18.50   |
|           |            | 1       | 99        | 17.07            | 17.19            | 17.12            | 18.50   |
|           |            | 50      | 0         | 17.19            | 17.23            | 17.18            | 18.50   |
|           |            | 50      | 25        | 17.21            | 17.25            | 17.08            | 18.50   |
|           |            | 50      | 50        | 17.16            | 17.24            | 17.23            | 18.50   |
|           |            | 100     | 0         | 17.10            | 17.14            | 17.18            | 18.50   |
|           | 64QAM      | 1       | 0         | 17.22            | 17.26            | 17.14            | 18.50   |
|           |            | 1       | 50        | 17.13            | 17.17            | 17.18            | 18.50   |
|           |            | 1       | 99        | 17.18            | 17.18            | 17.18            | 18.50   |
|           |            | 50      | 0         | 17.18            | 17.27            | 17.15            | 18.50   |
|           |            | 50      | 25        | 17.18            | 17.20            | 17.11            | 18.50   |
|           |            | 50      | 50        | 17.20            | 17.15            | 17.15            | 18.50   |
|           |            | 100     | 0         | 17.16            | 17.20            | 17.22            | 18.50   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  | 256QAM | 1   | 0  | 17.23 | 17.20 | 17.24 | 18.50 |
|  |        | 1   | 50 | 17.21 | 17.20 | 17.22 | 18.50 |
|  |        | 1   | 99 | 17.18 | 17.12 | 17.15 | 18.50 |
|  |        | 50  | 0  | 17.13 | 17.17 | 17.14 | 18.50 |
|  |        | 50  | 25 | 17.19 | 17.25 | 17.19 | 18.50 |
|  |        | 50  | 50 | 17.15 | 17.20 | 17.19 | 18.50 |
|  |        | 100 | 0  | 17.12 | 17.21 | 17.15 | 18.50 |

| LTE Band 48 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 55265                | 55990   | 56715   |         |
| 5MHz             | QPSK       | 1       | 0         | 17.35                | 17.52   | 17.57   | 19.00   |
|                  |            | 1       | 13        | 17.61                | 17.47   | 17.41   | 19.00   |
|                  |            | 1       | 24        | 17.26                | 17.54   | 17.40   | 19.00   |
|                  |            | 12      | 0         | 17.34                | 17.55   | 17.45   | 19.00   |
|                  |            | 12      | 6         | 17.71                | 17.52   | 17.62   | 19.00   |
|                  |            | 12      | 13        | 17.60                | 17.62   | 17.43   | 19.00   |
|                  | 16QAM      | 25      | 0         | 17.55                | 17.48   | 17.45   | 19.00   |
|                  |            | 1       | 0         | 17.35                | 17.30   | 17.36   | 19.00   |
|                  |            | 1       | 13        | 17.57                | 17.62   | 17.63   | 19.00   |
|                  |            | 1       | 24        | 17.34                | 17.40   | 17.42   | 19.00   |
|                  |            | 12      | 0         | 17.55                | 17.50   | 17.59   | 19.00   |
|                  |            | 12      | 6         | 17.51                | 17.41   | 17.38   | 19.00   |
|                  | 64QAM      | 12      | 13        | 17.35                | 17.61   | 17.51   | 19.00   |
|                  |            | 25      | 0         | 17.38                | 17.60   | 17.38   | 19.00   |
|                  |            | 1       | 0         | 17.62                | 17.60   | 17.40   | 19.00   |
|                  |            | 1       | 13        | 17.51                | 17.39   | 17.47   | 19.00   |
|                  |            | 1       | 24        | 17.50                | 17.79   | 17.33   | 19.00   |
|                  |            | 12      | 0         | 17.47                | 17.36   | 17.37   | 19.00   |
|                  | 256QAM     | 12      | 6         | 17.26                | 17.44   | 17.60   | 19.00   |
|                  |            | 12      | 13        | 17.52                | 17.59   | 17.66   | 19.00   |
|                  |            | 25      | 0         | 17.50                | 17.54   | 17.69   | 19.00   |
|                  |            | 1       | 0         | 17.52                | 17.57   | 17.49   | 19.00   |
|                  |            | 1       | 13        | 17.54                | 17.37   | 17.59   | 19.00   |
|                  |            | 1       | 24        | 17.65                | 17.63   | 17.59   | 19.00   |
| 10MHz            | QPSK       | 12      | 0         | 17.43                | 17.40   | 17.46   | 19.00   |
|                  |            | 12      | 6         | 17.58                | 17.57   | 17.29   | 19.00   |
|                  |            | 12      | 13        | 17.38                | 17.49   | 17.67   | 19.00   |
|                  |            | 25      | 0         | 17.45                | 17.34   | 17.42   | 19.00   |
|                  | 16QAM      | 1       | 0         | 17.39                | 17.62   | 17.55   | 19.00   |
|                  |            | 1       | 25        | 17.58                | 17.43   | 17.43   | 19.00   |
|                  |            | 1       | 49        | 17.36                | 17.48   | 17.41   | 19.00   |
|                  |            | 25      | 0         | 17.34                | 17.50   | 17.47   | 19.00   |
|                  |            | 25      | 13        | 17.64                | 17.54   | 17.54   | 19.00   |
|                  |            | 25      | 25        | 17.64                | 17.61   | 17.46   | 19.00   |
|                  | 64QAM      | 50      | 0         | 17.48                | 17.56   | 17.53   | 19.00   |
|                  |            | 1       | 0         | 17.45                | 17.33   | 17.45   | 19.00   |
|                  |            | 1       | 25        | 17.55                | 17.52   | 17.69   | 19.00   |
|                  |            | 1       | 49        | 17.39                | 17.49   | 17.50   | 19.00   |
|                  |            | 25      | 0         | 17.50                | 17.43   | 17.51   | 19.00   |
|                  |            | 25      | 13        | 17.56                | 17.39   | 17.47   | 19.00   |
|                  | 256QAM     | 25      | 25        | 17.45                | 17.57   | 17.54   | 19.00   |
|                  |            | 50      | 0         | 17.45                | 17.52   | 17.32   | 19.00   |
|                  |            | 1       | 0         | 17.65                | 17.54   | 17.42   | 19.00   |
|                  |            | 1       | 25        | 17.53                | 17.43   | 17.42   | 19.00   |
|                  |            | 1       | 49        | 17.51                | 17.73   | 17.42   | 19.00   |
|                  |            | 25      | 0         | 17.39                | 17.42   | 17.33   | 19.00   |
|                  |            | 25      | 13        | 17.36                | 17.52   | 17.52   | 19.00   |
|                  |            | 25      | 25        | 17.46                | 17.61   | 17.62   | 19.00   |
|                  |            | 50      | 0         | 17.42                | 17.53   | 17.60   | 19.00   |
|                  |            | 1       | 0         | 17.45                | 17.48   | 17.59   | 19.00   |
|                  |            | 1       | 25        | 17.59                | 17.47   | 17.49   | 19.00   |
|                  |            | 1       | 49        | 17.58                | 17.60   | 17.54   | 19.00   |
|                  |            | 25      | 0         | 17.39                | 17.42   | 17.40   | 19.00   |
|                  |            | 25      | 13        | 17.62                | 17.47   | 17.34   | 19.00   |
|                  |            | 25      | 25        | 17.38                | 17.44   | 17.68   | 19.00   |
|                  |            |         |           |                      |         |         |         |

|           |            | 50      | 0         | 17.45   | 17.44   | 17.45   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55315   | 55990   | 56665   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.40   | 17.54   | 17.49   | 19.00   |
|           |            | 1       | 38        | 17.54   | 17.46   | 17.47   | 19.00   |
|           |            | 1       | 74        | 17.44   | 17.47   | 17.41   | 19.00   |
|           |            | 36      | 0         | 17.40   | 17.55   | 17.53   | 19.00   |
|           |            | 36      | 18        | 17.54   | 17.50   | 17.63   | 19.00   |
|           |            | 36      | 39        | 17.54   | 17.56   | 17.55   | 19.00   |
|           |            | 75      | 0         | 17.56   | 17.56   | 17.54   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.54   | 17.35   | 17.52   | 19.00   |
|           |            | 1       | 38        | 17.51   | 17.47   | 17.59   | 19.00   |
|           |            | 1       | 74        | 17.36   | 17.55   | 17.54   | 19.00   |
|           |            | 36      | 0         | 17.53   | 17.45   | 17.43   | 19.00   |
|           |            | 36      | 18        | 17.47   | 17.47   | 17.46   | 19.00   |
|           |            | 36      | 39        | 17.37   | 17.61   | 17.56   | 19.00   |
|           |            | 75      | 0         | 17.37   | 17.48   | 17.41   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.60   | 17.49   | 17.47   | 19.00   |
|           |            | 1       | 38        | 17.53   | 17.46   | 17.34   | 19.00   |
|           |            | 1       | 74        | 17.51   | 17.65   | 17.47   | 19.00   |
|           |            | 36      | 0         | 17.45   | 17.50   | 17.43   | 19.00   |
|           |            | 36      | 18        | 17.42   | 17.56   | 17.45   | 19.00   |
|           |            | 36      | 39        | 17.40   | 17.51   | 17.58   | 19.00   |
|           |            | 75      | 0         | 17.47   | 17.45   | 17.53   | 19.00   |
|           | 256QAM     | 1       | 0         | 17.44   | 17.47   | 17.53   | 19.00   |
|           |            | 1       | 38        | 17.61   | 17.41   | 17.49   | 19.00   |
|           |            | 1       | 74        | 17.49   | 17.52   | 17.60   | 19.00   |
|           |            | 36      | 0         | 17.37   | 17.49   | 17.43   | 19.00   |
|           |            | 36      | 18        | 17.52   | 17.42   | 17.42   | 19.00   |
|           |            | 36      | 39        | 17.34   | 17.44   | 17.60   | 19.00   |
|           |            | 75      | 0         | 17.51   | 17.54   | 17.55   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55340   | 55990   | 56640   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.47   | 17.60   | 17.51   | 19.00   |
|           |            | 1       | 50        | 17.52   | 17.54   | 17.47   | 19.00   |
|           |            | 1       | 99        | 17.46   | 17.52   | 17.42   | 19.00   |
|           |            | 50      | 0         | 17.44   | 17.52   | 17.51   | 19.00   |
|           |            | 50      | 25        | 17.49   | 17.47   | 17.54   | 19.00   |
|           |            | 50      | 50        | 17.44   | 17.52   | 17.55   | 19.00   |
|           |            | 100     | 0         | 17.53   | 17.47   | 17.49   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.47   | 17.44   | 17.53   | 19.00   |
|           |            | 1       | 50        | 17.50   | 17.52   | 17.56   | 19.00   |
|           |            | 1       | 99        | 17.45   | 17.54   | 17.49   | 19.00   |
|           |            | 50      | 0         | 17.44   | 17.52   | 17.52   | 19.00   |
|           |            | 50      | 25        | 17.50   | 17.54   | 17.48   | 19.00   |
|           |            | 50      | 50        | 17.46   | 17.51   | 17.50   | 19.00   |
|           |            | 100     | 0         | 17.46   | 17.50   | 17.47   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.50   | 17.51   | 17.51   | 19.00   |
|           |            | 1       | 50        | 17.50   | 17.49   | 17.43   | 19.00   |
|           |            | 1       | 99        | 17.49   | 17.55   | 17.44   | 19.00   |
|           |            | 50      | 0         | 17.50   | 17.44   | 17.51   | 19.00   |
|           |            | 50      | 25        | 17.47   | 17.54   | 17.52   | 19.00   |
|           |            | 50      | 50        | 17.46   | 17.54   | 17.53   | 19.00   |
|           |            | 100     | 0         | 17.47   | 17.53   | 17.48   | 19.00   |
|           | 256QAM     | 1       | 0         | 17.47   | 17.47   | 17.46   | 19.00   |
|           |            | 1       | 50        | 17.53   | 17.48   | 17.50   | 19.00   |
|           |            | 1       | 99        | 17.55   | 17.51   | 17.51   | 19.00   |
|           |            | 50      | 0         | 17.45   | 17.52   | 17.50   | 19.00   |
|           |            | 50      | 25        | 17.54   | 17.52   | 17.49   | 19.00   |
|           |            | 50      | 50        | 17.43   | 17.48   | 17.54   | 19.00   |
|           |            | 100     | 0         | 17.42   | 17.49   | 17.46   | 19.00   |

| LTE Band 48 Body worn/Hotspot |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 55265                | 55990   | 56715   |         |
| 5MHz                          | QPSK       | 1       | 0         | 15.43                | 15.75   | 15.45   | 17.00   |
|                               |            | 1       | 13        | 15.61                | 15.61   | 15.51   | 17.00   |
|                               |            | 1       | 24        | 15.45                | 15.53   | 15.40   | 17.00   |

|           |            | 12      | 0         | 15.40   | 15.53   | 15.63   | 17.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 6         | 15.52   | 15.51   | 15.62   | 17.00   |
|           |            | 12      | 13        | 15.54   | 15.70   | 15.46   | 17.00   |
|           |            | 25      | 0         | 15.45   | 15.50   | 15.61   | 17.00   |
|           | 16QAM      | 1       | 0         | 15.55   | 15.36   | 15.51   | 17.00   |
|           |            | 1       | 13        | 15.75   | 15.46   | 15.39   | 17.00   |
|           |            | 1       | 24        | 15.72   | 15.55   | 15.73   | 17.00   |
|           |            | 12      | 0         | 15.49   | 15.51   | 15.38   | 17.00   |
|           |            | 12      | 6         | 15.45   | 15.33   | 15.44   | 17.00   |
|           |            | 12      | 13        | 15.56   | 15.73   | 15.31   | 17.00   |
|           |            | 25      | 0         | 15.42   | 15.50   | 15.54   | 17.00   |
|           |            | 1       | 0         | 15.52   | 15.50   | 15.51   | 17.00   |
|           | 64QAM      | 1       | 13        | 15.31   | 15.31   | 15.51   | 17.00   |
|           |            | 1       | 24        | 15.41   | 15.61   | 15.73   | 17.00   |
|           |            | 12      | 0         | 15.35   | 15.62   | 15.39   | 17.00   |
|           |            | 12      | 6         | 15.53   | 15.60   | 15.64   | 17.00   |
|           |            | 12      | 13        | 15.63   | 15.59   | 15.38   | 17.00   |
|           |            | 25      | 0         | 15.47   | 15.60   | 15.61   | 17.00   |
|           | 256QAM     | 1       | 0         | 15.40   | 15.38   | 15.30   | 17.00   |
|           |            | 1       | 13        | 15.62   | 15.50   | 15.55   | 17.00   |
|           |            | 1       | 24        | 15.51   | 15.58   | 15.67   | 17.00   |
|           |            | 12      | 0         | 15.41   | 15.70   | 15.52   | 17.00   |
|           |            | 12      | 6         | 15.49   | 15.41   | 15.51   | 17.00   |
|           |            | 12      | 13        | 15.41   | 15.49   | 15.64   | 17.00   |
|           |            | 25      | 0         | 15.46   | 15.46   | 15.38   | 17.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | 55290   | 55990   | 56690   | 17.00   |
|           |            | 1       | 25        | 15.34   | 15.75   | 15.51   | 17.00   |
|           |            | 1       | 49        | 15.63   | 15.57   | 15.53   | 17.00   |
|           |            | 1       | 49        | 15.44   | 15.48   | 15.36   | 17.00   |
|           |            | 25      | 0         | 15.43   | 15.61   | 15.54   | 17.00   |
|           |            | 25      | 13        | 15.51   | 15.54   | 15.64   | 17.00   |
|           | 16QAM      | 25      | 25        | 15.45   | 15.64   | 15.54   | 17.00   |
|           |            | 50      | 0         | 15.53   | 15.57   | 15.52   | 17.00   |
|           |            | 1       | 0         | 15.49   | 15.29   | 15.50   | 17.00   |
|           |            | 1       | 25        | 15.65   | 15.48   | 15.35   | 17.00   |
|           |            | 1       | 49        | 15.63   | 15.54   | 15.67   | 17.00   |
|           |            | 25      | 0         | 15.43   | 15.61   | 15.41   | 17.00   |
|           | 64QAM      | 25      | 13        | 15.40   | 15.37   | 15.47   | 17.00   |
|           |            | 25      | 25        | 15.48   | 15.69   | 15.38   | 17.00   |
|           |            | 50      | 0         | 15.33   | 15.51   | 15.48   | 17.00   |
|           |            | 1       | 0         | 15.49   | 15.41   | 15.49   | 17.00   |
|           |            | 1       | 25        | 15.34   | 15.41   | 15.52   | 17.00   |
|           |            | 1       | 49        | 15.40   | 15.62   | 15.67   | 17.00   |
|           | 256QAM     | 25      | 0         | 15.40   | 15.53   | 15.43   | 17.00   |
|           |            | 25      | 13        | 15.56   | 15.58   | 15.61   | 17.00   |
|           |            | 25      | 25        | 15.56   | 15.63   | 15.43   | 17.00   |
|           |            | 50      | 0         | 15.48   | 15.57   | 15.66   | 17.00   |
|           |            | 1       | 0         | 15.50   | 15.29   | 15.32   | 17.00   |
|           |            | 1       | 25        | 15.53   | 15.60   | 15.50   | 17.00   |
| 15MHz     | QPSK       | 1       | 0         | 55315   | 55990   | 56665   | 17.00   |
|           |            | 1       | 38        | 15.36   | 15.68   | 15.58   | 17.00   |
|           |            | 1       | 74        | 15.61   | 15.55   | 15.54   | 17.00   |
|           |            | 1       | 74        | 15.41   | 15.51   | 15.45   | 17.00   |
|           |            | 36      | 0         | 15.53   | 15.55   | 15.57   | 17.00   |
|           |            | 36      | 18        | 15.43   | 15.48   | 15.62   | 17.00   |
|           |            | 36      | 39        | 15.43   | 15.55   | 15.49   | 17.00   |
|           | 16QAM      | 75      | 0         | 15.62   | 15.56   | 15.56   | 17.00   |
|           |            | 1       | 0         | 15.39   | 15.39   | 15.52   | 17.00   |
|           |            | 1       | 38        | 15.57   | 15.48   | 15.44   | 17.00   |
|           |            | 1       | 74        | 15.53   | 15.50   | 15.59   | 17.00   |
|           |            | 36      | 0         | 15.50   | 15.55   | 15.41   | 17.00   |
|           |            | 36      | 18        | 15.45   | 15.45   | 15.46   | 17.00   |
|           |            | 36      | 39        | 15.53   | 15.60   | 15.44   | 17.00   |

|           | 64QAM      | 75      | 0         | 15.42   | 15.58   | 15.48   | 17.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 15.41   | 15.44   | 15.47   | 17.00   |
|           |            | 1       | 38        | 15.43   | 15.51   | 15.49   | 17.00   |
|           |            | 1       | 74        | 15.47   | 15.57   | 15.57   | 17.00   |
|           |            | 36      | 0         | 15.44   | 15.61   | 15.42   | 17.00   |
|           |            | 36      | 18        | 15.55   | 15.57   | 15.53   | 17.00   |
|           |            | 36      | 39        | 15.54   | 15.62   | 15.51   | 17.00   |
|           | 256QAM     | 75      | 0         | 15.40   | 15.61   | 15.57   | 17.00   |
|           |            | 1       | 0         | 15.44   | 15.39   | 15.41   | 17.00   |
|           |            | 1       | 38        | 15.46   | 15.62   | 15.58   | 17.00   |
|           |            | 1       | 74        | 15.57   | 15.56   | 15.56   | 17.00   |
|           |            | 36      | 0         | 15.42   | 15.61   | 15.39   | 17.00   |
|           |            | 36      | 18        | 15.48   | 15.57   | 15.57   | 17.00   |
|           |            | 36      | 39        | 15.50   | 15.40   | 15.61   | 17.00   |
|           |            | 75      | 0         | 15.45   | 15.38   | 15.43   | 17.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55340   | 55990   | 56640   |         |
| 20MHz     | QPSK       | 1       | 0         | 15.70   | 15.85   | 15.80   | 17.00   |
|           |            | 1       | 50        | 15.78   | 15.80   | 15.72   | 17.00   |
|           |            | 1       | 99        | 15.71   | 15.74   | 15.67   | 17.00   |
|           |            | 50      | 0         | 15.74   | 15.81   | 15.75   | 17.00   |
|           |            | 50      | 25        | 15.72   | 15.71   | 15.77   | 17.00   |
|           |            | 50      | 50        | 15.71   | 15.72   | 15.79   | 17.00   |
|           |            | 100     | 0         | 15.77   | 15.75   | 15.76   | 17.00   |
|           | 16QAM      | 1       | 0         | 15.69   | 15.72   | 15.75   | 17.00   |
|           |            | 1       | 50        | 15.76   | 15.73   | 15.78   | 17.00   |
|           |            | 1       | 99        | 15.76   | 15.73   | 15.76   | 17.00   |
|           |            | 50      | 0         | 15.75   | 15.72   | 15.74   | 17.00   |
|           |            | 50      | 25        | 15.73   | 15.76   | 15.75   | 17.00   |
|           |            | 50      | 50        | 15.76   | 15.76   | 15.71   | 17.00   |
|           |            | 100     | 0         | 15.72   | 15.73   | 15.72   | 17.00   |
|           | 64QAM      | 1       | 0         | 15.73   | 15.75   | 15.76   | 17.00   |
|           |            | 1       | 50        | 15.74   | 15.71   | 15.73   | 17.00   |
|           |            | 1       | 99        | 15.78   | 15.76   | 15.75   | 17.00   |
|           |            | 50      | 0         | 15.73   | 15.76   | 15.75   | 17.00   |
|           |            | 50      | 25        | 15.70   | 15.80   | 15.75   | 17.00   |
|           |            | 50      | 50        | 15.76   | 15.77   | 15.81   | 17.00   |
|           |            | 100     | 0         | 15.74   | 15.79   | 15.76   | 17.00   |
|           | 256QAM     | 1       | 0         | 15.75   | 15.71   | 15.74   | 17.00   |
|           |            | 1       | 50        | 15.81   | 15.77   | 15.79   | 17.00   |
|           |            | 1       | 99        | 15.76   | 15.79   | 15.72   | 17.00   |
|           |            | 50      | 0         | 15.73   | 15.77   | 15.71   | 17.00   |
|           |            | 50      | 25        | 15.76   | 15.76   | 15.76   | 17.00   |
|           |            | 50      | 50        | 15.73   | 15.74   | 15.82   | 17.00   |
|           |            | 100     | 0         | 15.68   | 15.72   | 15.75   | 17.00   |

## 1.4 Conducted Power of Legacy (Ant4)

| LTE Band 42 Head/Hotspot/Body worn |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                          | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                    |            |         |           | 41615                | 42590   | 43565   |         |
| 5MHz                               | QPSK       | 1       | 0         | 19.35                | 19.73   | 19.34   | 21.00   |
|                                    |            | 1       | 13        | 19.46                | 19.41   | 19.29   | 21.00   |
|                                    |            | 1       | 24        | 19.46                | 19.38   | 19.56   | 21.00   |
|                                    |            | 12      | 0         | 19.37                | 19.63   | 19.34   | 21.00   |
|                                    |            | 12      | 6         | 19.37                | 19.56   | 19.42   | 21.00   |
|                                    |            | 12      | 13        | 19.40                | 19.62   | 19.49   | 21.00   |
|                                    | 16QAM      | 25      | 0         | 19.44                | 19.51   | 19.44   | 21.00   |
|                                    |            | 1       | 0         | 19.19                | 19.51   | 19.44   | 21.00   |
|                                    |            | 1       | 13        | 19.24                | 19.61   | 19.31   | 21.00   |
|                                    |            | 1       | 24        | 19.41                | 19.53   | 19.46   | 21.00   |
|                                    |            | 12      | 0         | 19.27                | 19.41   | 19.30   | 21.00   |
|                                    |            | 12      | 6         | 19.36                | 19.32   | 19.33   | 21.00   |
|                                    | 64QAM      | 12      | 13        | 19.60                | 19.39   | 19.41   | 21.00   |
|                                    |            | 25      | 0         | 19.39                | 19.61   | 19.39   | 21.00   |
|                                    |            | 1       | 0         | 19.47                | 19.37   | 19.59   | 21.00   |
|                                    |            | 1       | 13        | 19.35                | 19.48   | 19.42   | 21.00   |
|                                    |            | 1       | 24        | 19.36                | 19.39   | 19.39   | 21.00   |
|                                    |            | 12      | 0         | 19.20                | 19.26   | 19.23   | 21.00   |
|                                    | 256QAM     | 12      | 6         | 19.51                | 19.54   | 19.43   | 21.00   |
|                                    |            | 12      | 13        | 19.43                | 19.53   | 19.33   | 21.00   |
|                                    |            | 25      | 0         | 19.48                | 19.51   | 19.40   | 21.00   |
|                                    |            | 1       | 0         | 18.54                | 18.41   | 18.31   | 20.00   |
|                                    |            | 1       | 13        | 18.28                | 18.33   | 18.42   | 20.00   |
|                                    |            | 1       | 24        | 18.38                | 18.55   | 18.63   | 20.00   |
| 10MHz                              | QPSK       | 12      | 0         | 18.37                | 18.42   | 18.59   | 20.00   |
|                                    |            | 12      | 6         | 18.31                | 18.48   | 18.49   | 20.00   |
|                                    |            | 12      | 13        | 18.33                | 18.35   | 18.54   | 20.00   |
|                                    |            | 25      | 0         | 18.42                | 18.38   | 18.44   | 20.00   |
|                                    | 16QAM      | 1       | 0         | 19.36                | 19.73   | 19.31   | 21.00   |
|                                    |            | 1       | 25        | 19.41                | 19.34   | 19.34   | 21.00   |
|                                    |            | 1       | 49        | 19.51                | 19.39   | 19.50   | 21.00   |
|                                    |            | 25      | 0         | 19.32                | 19.59   | 19.27   | 21.00   |
|                                    |            | 25      | 13        | 19.36                | 19.51   | 19.34   | 21.00   |
|                                    |            | 25      | 25        | 19.39                | 19.56   | 19.39   | 21.00   |
|                                    | 64QAM      | 50      | 0         | 19.50                | 19.48   | 19.43   | 21.00   |
|                                    |            | 1       | 0         | 19.28                | 19.48   | 19.49   | 21.00   |
|                                    |            | 1       | 25        | 19.34                | 19.54   | 19.33   | 21.00   |
|                                    |            | 1       | 49        | 19.34                | 19.50   | 19.42   | 21.00   |
|                                    |            | 25      | 0         | 19.35                | 19.38   | 19.38   | 21.00   |
|                                    |            | 25      | 13        | 19.32                | 19.37   | 19.34   | 21.00   |
|                                    | 256QAM     | 25      | 25        | 19.50                | 19.44   | 19.48   | 21.00   |
|                                    |            | 50      | 0         | 19.38                | 19.54   | 19.34   | 21.00   |
|                                    |            | 1       | 0         | 19.49                | 19.41   | 19.61   | 21.00   |
|                                    |            | 1       | 25        | 19.36                | 19.45   | 19.45   | 21.00   |
|                                    |            | 1       | 49        | 19.34                | 19.48   | 19.39   | 21.00   |
|                                    |            | 25      | 0         | 19.27                | 19.28   | 19.33   | 21.00   |
| 15MHz                              | QPSK       | 25      | 13        | 19.47                | 19.53   | 19.51   | 21.00   |
|                                    |            | 25      | 25        | 19.38                | 19.52   | 19.34   | 21.00   |
|                                    |            | 50      | 0         | 19.54                | 19.49   | 19.31   | 21.00   |
|                                    |            | 1       | 0         | 18.61                | 18.49   | 18.41   | 20.00   |
|                                    |            | 1       | 25        | 18.28                | 18.38   | 18.36   | 20.00   |
|                                    |            | 1       | 49        | 18.34                | 18.46   | 18.58   | 20.00   |
|                                    | 16QAM      | 25      | 0         | 18.28                | 18.41   | 18.50   | 20.00   |
|                                    |            | 25      | 13        | 18.34                | 18.43   | 18.50   | 20.00   |
|                                    |            | 25      | 25        | 18.38                | 18.41   | 18.45   | 20.00   |
|                                    |            | 50      | 0         | 18.33                | 18.30   | 18.35   | 20.00   |
|                                    | 64QAM      | 1       | 0         | 19.34                | 19.63   | 19.37   | 21.00   |
|                                    |            | 1       | 38        | 19.50                | 19.39   | 19.41   | 21.00   |
|                                    |            | 1       | 74        | 19.54                | 19.46   | 19.40   | 21.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 36      | 0         | 19.36   | 19.49   | 19.33   | 21.00   |
|           |            | 36      | 18        | 19.40   | 19.48   | 19.28   | 21.00   |
|           |            | 36      | 39        | 19.45   | 19.47   | 19.49   | 21.00   |
|           |            | 75      | 0         | 19.51   | 19.45   | 19.47   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.37   | 19.43   | 19.49   | 21.00   |
|           |            | 1       | 38        | 19.31   | 19.48   | 19.36   | 21.00   |
|           |            | 1       | 74        | 19.40   | 19.50   | 19.37   | 21.00   |
|           |            | 36      | 0         | 19.40   | 19.30   | 19.41   | 21.00   |
|           |            | 36      | 18        | 19.37   | 19.34   | 19.40   | 21.00   |
|           |            | 36      | 39        | 19.40   | 19.39   | 19.39   | 21.00   |
|           |            | 75      | 0         | 19.41   | 19.46   | 19.43   | 21.00   |
|           |            | 75      | 0         | 19.41   | 19.46   | 19.43   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.45   | 19.43   | 19.52   | 21.00   |
|           |            | 1       | 38        | 19.44   | 19.49   | 19.46   | 21.00   |
|           |            | 1       | 74        | 19.43   | 19.43   | 19.39   | 21.00   |
|           |            | 36      | 0         | 19.36   | 19.32   | 19.35   | 21.00   |
|           |            | 36      | 18        | 19.50   | 19.53   | 19.55   | 21.00   |
|           |            | 36      | 39        | 19.37   | 19.52   | 19.40   | 21.00   |
|           |            | 75      | 0         | 19.51   | 19.50   | 19.41   | 21.00   |
|           |            | 75      | 0         | 19.51   | 19.50   | 19.41   | 21.00   |
|           | 256QAM     | 1       | 0         | 18.52   | 18.46   | 18.47   | 20.00   |
|           |            | 1       | 38        | 18.37   | 18.45   | 18.34   | 20.00   |
|           |            | 1       | 74        | 18.37   | 18.40   | 18.56   | 20.00   |
|           |            | 36      | 0         | 18.38   | 18.43   | 18.52   | 20.00   |
|           |            | 36      | 18        | 18.37   | 18.34   | 18.42   | 20.00   |
|           |            | 36      | 39        | 18.40   | 18.42   | 18.45   | 20.00   |
|           |            | 75      | 0         | 18.37   | 18.37   | 18.42   | 20.00   |
|           |            | 75      | 0         | 18.37   | 18.37   | 18.42   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 41690   | 42590   | 43490   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.68   | 19.86   | 19.75   | 21.00   |
|           |            | 1       | 50        | 19.72   | 19.74   | 19.71   | 21.00   |
|           |            | 1       | 99        | 19.80   | 19.77   | 19.70   | 21.00   |
|           |            | 50      | 0         | 19.74   | 19.75   | 19.68   | 21.00   |
|           |            | 50      | 25        | 19.74   | 19.78   | 19.68   | 21.00   |
|           |            | 50      | 50        | 19.75   | 19.77   | 19.80   | 21.00   |
|           |            | 100     | 0         | 19.73   | 19.79   | 19.73   | 21.00   |
|           |            | 100     | 0         | 19.73   | 19.79   | 19.73   | 21.00   |
|           | 16QAM      | 1       | 0         | 19.72   | 19.73   | 19.74   | 21.00   |
|           |            | 1       | 50        | 19.70   | 19.72   | 19.74   | 21.00   |
|           |            | 1       | 99        | 19.75   | 19.77   | 19.73   | 21.00   |
|           |            | 50      | 0         | 19.75   | 19.70   | 19.71   | 21.00   |
|           |            | 50      | 25        | 19.76   | 19.72   | 19.74   | 21.00   |
|           |            | 50      | 50        | 19.79   | 19.69   | 19.70   | 21.00   |
|           |            | 100     | 0         | 19.77   | 19.82   | 19.77   | 21.00   |
|           |            | 100     | 0         | 19.77   | 19.82   | 19.77   | 21.00   |
|           | 64QAM      | 1       | 0         | 19.79   | 19.78   | 19.74   | 21.00   |
|           |            | 1       | 50        | 19.68   | 19.78   | 19.76   | 21.00   |
|           |            | 1       | 99        | 19.74   | 19.74   | 19.70   | 21.00   |
|           |            | 50      | 0         | 19.74   | 19.71   | 19.75   | 21.00   |
|           |            | 50      | 25        | 19.72   | 19.80   | 19.78   | 21.00   |
|           |            | 50      | 50        | 19.76   | 19.80   | 19.79   | 21.00   |
|           |            | 100     | 0         | 19.74   | 19.72   | 19.72   | 21.00   |
|           |            | 100     | 0         | 19.74   | 19.72   | 19.72   | 21.00   |
|           | 256QAM     | 1       | 0         | 18.79   | 18.78   | 18.75   | 20.00   |
|           |            | 1       | 50        | 18.77   | 18.75   | 18.72   | 20.00   |
|           |            | 1       | 99        | 18.69   | 18.74   | 18.77   | 20.00   |
|           |            | 50      | 0         | 18.71   | 18.71   | 18.75   | 20.00   |
|           |            | 50      | 25        | 18.74   | 18.74   | 18.74   | 20.00   |
|           |            | 50      | 50        | 18.68   | 18.72   | 18.72   | 20.00   |
|           |            | 100     | 0         | 18.75   | 18.72   | 18.71   | 20.00   |
|           |            | 100     | 0         | 18.75   | 18.72   | 18.71   | 20.00   |

| LTE Band 42 Full power |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 41615                | 42590   | 43565   |         |
| 5MHz                   | QPSK       | 1       | 0         | 23.24                | 23.41   | 23.19   | 25.00   |
|                        |            | 1       | 13        | 23.43                | 23.30   | 23.30   | 25.00   |
|                        |            | 1       | 24        | 23.19                | 23.34   | 23.22   | 25.00   |
|                        |            | 12      | 0         | 22.11                | 22.32   | 22.40   | 24.00   |
|                        |            | 12      | 6         | 22.12                | 22.29   | 22.24   | 24.00   |
|                        |            | 12      | 13        | 22.26                | 22.13   | 22.41   | 24.00   |
|                        |            | 25      | 0         | 22.34                | 22.34   | 22.42   | 24.00   |
|                        |            | 25      | 0         | 22.34                | 22.34   | 22.42   | 24.00   |
|                        | 16QAM      | 1       | 0         | 22.35                | 22.36   | 22.11   | 24.00   |
|                        |            | 1       | 13        | 22.41                | 22.18   | 22.15   | 24.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 24        | 22.28   | 22.18   | 22.19   | 24.00   |
|           |            | 12      | 0         | 21.24   | 21.19   | 21.32   | 23.00   |
|           |            | 12      | 6         | 21.42   | 21.27   | 21.43   | 23.00   |
|           |            | 12      | 13        | 21.22   | 21.34   | 21.38   | 23.00   |
|           |            | 25      | 0         | 21.20   | 21.42   | 21.28   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.44   | 21.21   | 21.25   | 23.00   |
|           |            | 1       | 13        | 21.37   | 21.28   | 21.46   | 23.00   |
|           |            | 1       | 24        | 21.35   | 21.34   | 21.44   | 23.00   |
|           |            | 12      | 0         | 20.29   | 20.25   | 20.25   | 22.00   |
|           |            | 12      | 6         | 20.32   | 20.25   | 20.09   | 22.00   |
|           | 256QAM     | 12      | 13        | 20.00   | 20.23   | 20.35   | 22.00   |
|           |            | 25      | 0         | 20.35   | 20.24   | 20.37   | 22.00   |
|           |            | 1       | 0         | 18.39   | 18.37   | 18.30   | 20.00   |
|           |            | 1       | 13        | 18.27   | 18.14   | 18.26   | 20.00   |
|           |            | 1       | 24        | 18.40   | 18.43   | 18.28   | 20.00   |
| 10MHz     | QPSK       | 12      | 0         | 18.35   | 18.18   | 18.52   | 20.00   |
|           |            | 12      | 6         | 18.20   | 18.12   | 18.26   | 20.00   |
|           |            | 12      | 13        | 18.17   | 18.17   | 18.36   | 20.00   |
|           |            | 25      | 0         | 18.35   | 18.33   | 18.26   | 20.00   |
|           |            | 25      | 0         | 18.35   | 18.33   | 18.26   | 20.00   |
|           | 16QAM      | 1       | 0         | 23.28   | 23.48   | 23.24   | 25.00   |
|           |            | 1       | 25        | 23.52   | 23.27   | 23.32   | 25.00   |
|           |            | 1       | 49        | 23.25   | 23.24   | 23.22   | 25.00   |
|           |            | 25      | 0         | 22.17   | 22.37   | 22.35   | 24.00   |
|           |            | 25      | 13        | 22.21   | 22.20   | 22.27   | 24.00   |
|           | 64QAM      | 25      | 25        | 22.25   | 22.21   | 22.48   | 24.00   |
|           |            | 50      | 0         | 22.35   | 22.36   | 22.35   | 24.00   |
|           |            | 1       | 0         | 22.27   | 22.41   | 22.17   | 24.00   |
|           |            | 1       | 25        | 22.43   | 22.13   | 22.18   | 24.00   |
|           |            | 1       | 49        | 22.25   | 22.26   | 22.16   | 24.00   |
| 15MHz     | 256QAM     | 25      | 0         | 21.28   | 21.16   | 21.34   | 23.00   |
|           |            | 25      | 13        | 21.45   | 21.35   | 21.33   | 23.00   |
|           |            | 25      | 25        | 21.31   | 21.33   | 21.28   | 23.00   |
|           |            | 50      | 0         | 21.28   | 21.46   | 21.38   | 23.00   |
|           |            | 50      | 0         | 21.28   | 21.46   | 21.38   | 23.00   |
|           | 16QAM      | 1       | 0         | 21.40   | 21.17   | 21.33   | 23.00   |
|           |            | 1       | 25        | 21.47   | 21.28   | 21.49   | 23.00   |
|           |            | 1       | 49        | 21.45   | 21.32   | 21.35   | 23.00   |
|           |            | 25      | 0         | 20.24   | 20.34   | 20.27   | 22.00   |
|           |            | 25      | 13        | 20.23   | 20.17   | 20.19   | 22.00   |
|           | QPSK       | 25      | 25        | 20.10   | 20.21   | 20.32   | 22.00   |
|           |            | 50      | 0         | 20.32   | 20.25   | 20.31   | 22.00   |
|           |            | 1       | 0         | 18.38   | 18.29   | 18.27   | 20.00   |
|           |            | 1       | 25        | 18.27   | 18.17   | 18.23   | 20.00   |
|           |            | 1       | 49        | 18.46   | 18.39   | 18.33   | 20.00   |
| Bandwidth | Modulation | 25      | 0         | 18.40   | 18.24   | 18.49   | 20.00   |
|           |            | 25      | 13        | 18.15   | 18.21   | 18.17   | 20.00   |
|           |            | 25      | 25        | 18.22   | 18.21   | 18.31   | 20.00   |
|           |            | 50      | 0         | 18.42   | 18.33   | 18.30   | 20.00   |
|           |            | 50      | 0         | 18.42   | 18.33   | 18.30   | 20.00   |
|           | 64QAM      | 1       | 0         | 23.37   | 23.48   | 23.21   | 25.00   |
|           |            | 1       | 38        | 23.42   | 23.35   | 23.22   | 25.00   |
|           |            | 1       | 74        | 23.22   | 23.22   | 23.29   | 25.00   |
|           |            | 36      | 0         | 22.22   | 22.31   | 22.35   | 24.00   |
|           |            | 36      | 18        | 22.20   | 22.30   | 22.26   | 24.00   |
|           | 256QAM     | 36      | 39        | 22.34   | 22.25   | 22.42   | 24.00   |
|           |            | 75      | 0         | 22.42   | 22.32   | 22.38   | 24.00   |
|           |            | 1       | 0         | 22.35   | 22.37   | 22.20   | 24.00   |
|           |            | 1       | 38        | 22.37   | 22.22   | 22.22   | 24.00   |
|           |            | 1       | 74        | 22.22   | 22.23   | 22.24   | 24.00   |
|           | 16QAM      | 36      | 0         | 21.32   | 21.25   | 21.38   | 23.00   |
|           |            | 36      | 18        | 21.38   | 21.30   | 21.30   | 23.00   |
|           |            | 36      | 39        | 21.30   | 21.23   | 21.23   | 23.00   |
|           |            | 75      | 0         | 21.32   | 21.36   | 21.35   | 23.00   |
|           |            | 1       | 0         | 21.44   | 21.22   | 21.28   | 23.00   |
|           | 64QAM      | 1       | 38        | 21.39   | 21.21   | 21.42   | 23.00   |
|           |            | 1       | 74        | 21.39   | 21.32   | 21.36   | 23.00   |
|           |            | 36      | 0         | 20.27   | 20.27   | 20.35   | 22.00   |
|           |            | 36      | 18        | 20.26   | 20.15   | 20.27   | 22.00   |
|           |            | 36      | 18        | 20.26   | 20.15   | 20.27   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 41640   | 42590   | 43540   |         |
|           |            |         |           | 41640   | 42590   | 43540   |         |
|           |            |         |           | 41640   | 42590   | 43540   |         |
|           |            |         |           | 41640   | 42590   | 43540   |         |
|           | QPSK       | 1       | 0         | 23.37   | 23.48   | 23.21   | 25.00   |
|           |            | 1       | 38        | 23.42   | 23.35   | 23.22   | 25.00   |
|           |            | 1       | 74        | 23.22   | 23.22   | 23.29   | 25.00   |
|           |            | 36      | 0         | 22.22   | 22.31   | 22.35   | 24.00   |
|           |            | 36      | 18        | 22.20   | 22.30   | 22.26   | 24.00   |
|           | 16QAM      | 36      | 39        | 22.34   | 22.25   | 22.42   | 24.00   |
|           |            | 75      | 0         | 22.42   | 22.32   | 22.38   | 24.00   |
|           |            | 1       | 0         | 22.35   | 22.37   | 22.20   | 24.00   |
|           |            | 1       | 38        | 22.37   | 22.22   | 22.22   | 24.00   |
|           |            | 1       | 74        | 22.22   | 22.23   | 22.24   | 24.00   |
|           | 256QAM     | 36      | 0         | 21.32   | 21.25   | 21.38   | 23.00   |
|           |            | 36      | 18        | 21.38   | 21.30   | 21.30   | 23.00   |
|           |            | 36      | 39        | 21.30   | 21.23   | 21.23   | 23.00   |
|           |            | 75      | 0         | 21.32   | 21.36   | 21.35   | 23.00   |
|           |            | 1       | 0         | 21.44   | 21.22   | 21.28   | 23.00   |
|           | 64QAM      | 1       | 38        | 21.39   | 21.21   | 21.42   | 23.00   |
|           |            | 1       | 74        | 21.39   | 21.32   | 21.36   | 23.00   |
|           |            | 36      | 0         | 20.27   | 20.27   | 20.35   | 22.00   |
|           |            | 36      | 18        | 20.26   | 20.15   | 20.27   | 22.00   |
|           |            | 36      | 18        | 20.26   | 20.15   | 20.27   | 22.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 41665   | 42590   | 43515   |         |
|           |            |         |           | 41665   | 42590   | 43515   |         |
|           |            |         |           | 41665   | 42590   | 43515   |         |
|           |            |         |           | 41665   | 42590   | 43515   |         |
|           | QPSK       | 1       | 0         | 23.37   | 23.48   | 23.21   | 25.00   |
|           |            | 1       | 38        | 23.42   | 23.35   | 23.22   | 25.00   |
|           |            | 1       | 74        | 23.22   | 23.22   | 23.29   | 25.00   |
|           |            | 36      | 0         | 22.22   | 22.31   | 22.35   | 24.00   |
|           |            | 36      | 18        | 22.20   | 22.30   | 22.26   | 24.00   |
|           | 16QAM      | 36      | 39        | 22.34   | 22.25   | 22.42   | 24.00   |
|           |            | 75      | 0         | 22.42   | 22.32   | 22.38   | 24.00   |
|           |            | 1       | 0         | 22.35   | 22.37   | 22.20   | 24.00   |
|           |            | 1       | 38        | 22.37   | 22.22   | 22.22   | 24.00   |
|           |            | 1       | 74        | 22.22   | 22.23   | 22.24   | 24.00   |
|           | 256QAM     | 36      | 0         | 21.32   | 21.25   | 21.38   | 23.00   |
|           |            | 36      | 18        | 21.38   | 21.30   | 21.30   | 23.00   |
|           |            | 36      | 39        | 21.30   | 21.23   | 21.23   | 23.00   |
|           |            | 75      | 0         | 21.32   | 21.36   | 21.35   | 23.00   |
|           |            | 1       | 0         | 21.44   | 21.22   | 21.28   | 23.00   |
|           | 64QAM      | 1       | 38        | 21.39   | 21.21   | 21.42   | 23.00   |
|           |            | 1       | 74        | 21.39   | 21.32   | 21.36   | 23.00   |
|           |            | 36      | 0         | 20.27   | 20.27   | 20.35   | 22.00   |
|           |            | 36      | 18        | 20.26   | 20.15   | 20.27   | 22.00   |
|           |            | 36      | 18        | 20.26   | 20.15   | 20.27   | 22.00   |

|       |           |            |         |           |         |         |         |
|-------|-----------|------------|---------|-----------|---------|---------|---------|
|       |           | 36         | 39      | 20.16     | 20.21   | 20.32   | 22.00   |
|       |           | 75         | 0       | 20.26     | 20.32   | 20.34   | 22.00   |
|       | 256QAM    | 1          | 0       | 18.38     | 18.34   | 18.34   | 20.00   |
|       |           | 1          | 38      | 18.27     | 18.27   | 18.22   | 20.00   |
|       |           | 1          | 74      | 18.41     | 18.29   | 18.32   | 20.00   |
|       |           | 36         | 0       | 18.32     | 18.25   | 18.40   | 20.00   |
|       |           | 36         | 18      | 18.17     | 18.26   | 18.18   | 20.00   |
|       |           | 36         | 39      | 18.26     | 18.21   | 18.31   | 20.00   |
|       |           | 75         | 0       | 18.38     | 18.33   | 18.30   | 20.00   |
|       | Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel |
|       |           |            |         |           | 41690   | 42590   | 43490   |
| 20MHz | QPSK      |            |         |           |         |         | Tune up |
|       |           |            |         |           |         |         | 25.00   |
|       |           |            |         |           |         |         | 25.00   |
|       |           |            |         |           |         |         | 25.00   |
|       |           |            |         |           |         |         | 24.00   |
|       |           |            |         |           |         |         | 24.00   |
|       |           |            |         |           |         |         | 24.00   |
|       | 16QAM     |            |         |           |         |         | 24.00   |
|       |           |            |         |           |         |         | 24.00   |
|       |           |            |         |           |         |         | 24.00   |
|       |           |            |         |           |         |         | 23.00   |
|       |           |            |         |           |         |         | 23.00   |
|       |           |            |         |           |         |         | 23.00   |
|       |           |            |         |           |         |         | 23.00   |
|       | 64QAM     |            |         |           |         |         | 23.00   |
|       |           |            |         |           |         |         | 23.00   |
|       |           |            |         |           |         |         | 23.00   |
|       |           |            |         |           |         |         | 22.00   |
|       |           |            |         |           |         |         | 22.00   |
|       |           |            |         |           |         |         | 22.00   |
|       |           |            |         |           |         |         | 22.00   |
|       | 256QAM    |            |         |           |         |         | 20.00   |
|       |           |            |         |           |         |         | 20.00   |
|       |           |            |         |           |         |         | 20.00   |
|       |           |            |         |           |         |         | 20.00   |
|       |           |            |         |           |         |         | 20.00   |
|       |           |            |         |           |         |         | 20.00   |
|       |           |            |         |           |         |         | 20.00   |

| LTE Band 43 full power |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 43615                | 44590   | 45565   |         |
| 5MHz                   | QPSK       | 1       | 0         | 24.42                | 24.48   | 24.35   | 26.00   |
|                        |            | 1       | 13        | 24.52                | 24.59   | 24.41   | 26.00   |
|                        |            | 1       | 24        | 24.54                | 24.58   | 24.38   | 26.00   |
|                        |            | 12      | 0         | 23.58                | 23.71   | 23.49   | 25.00   |
|                        |            | 12      | 6         | 23.30                | 23.51   | 23.54   | 25.00   |
|                        |            | 12      | 13        | 23.30                | 23.51   | 23.48   | 25.00   |
|                        |            | 25      | 0         | 23.52                | 23.50   | 23.59   | 25.00   |
|                        | 16QAM      | 1       | 0         | 23.65                | 23.42   | 23.41   | 25.00   |
|                        |            | 1       | 13        | 23.47                | 23.47   | 23.41   | 25.00   |
|                        |            | 1       | 24        | 23.41                | 23.49   | 23.34   | 25.00   |
|                        |            | 12      | 0         | 22.71                | 22.37   | 22.33   | 24.00   |
|                        |            | 12      | 6         | 22.35                | 22.55   | 22.48   | 24.00   |
|                        |            | 12      | 13        | 22.56                | 22.46   | 22.58   | 24.00   |
|                        |            | 25      | 0         | 22.44                | 22.50   | 22.39   | 24.00   |
|                        | 64QAM      | 1       | 0         | 22.71                | 22.70   | 22.54   | 24.00   |
|                        |            | 1       | 13        | 22.51                | 22.51   | 22.56   | 24.00   |
|                        |            | 1       | 24        | 22.38                | 22.61   | 22.70   | 24.00   |
|                        |            | 12      | 0         | 21.41                | 21.65   | 21.43   | 23.00   |
|                        |            | 12      | 6         | 21.34                | 21.58   | 21.31   | 23.00   |
|                        |            | 12      | 13        | 21.56                | 21.51   | 21.31   | 23.00   |
|                        |            | 25      | 0         | 21.45                | 21.32   | 21.67   | 23.00   |
|                        | 256QAM     | 1       | 0         | 19.71                | 19.50   | 19.52   | 21.00   |
|                        |            | 1       | 13        | 19.49                | 19.60   | 19.67   | 21.00   |
|                        |            | 1       | 24        | 19.53                | 19.53   | 19.52   | 21.00   |
|                        |            | 12      | 0         | 19.47                | 19.38   | 19.39   | 21.00   |

|           |            | 12      | 6         | 19.37   | 19.58   | 19.22   | 21.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 13        | 19.54   | 19.66   | 19.39   | 21.00   |
|           |            | 25      | 0         | 19.46   | 19.38   | 19.41   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 43640   | 44590   | 45540   |         |
| 10MHz     | QPSK       | 1       | 0         | 24.50   | 24.44   | 24.45   | 26.00   |
|           |            | 1       | 25        | 24.48   | 24.54   | 24.36   | 26.00   |
|           |            | 1       | 49        | 24.49   | 24.67   | 24.42   | 26.00   |
|           |            | 25      | 0         | 23.48   | 23.62   | 23.44   | 25.00   |
|           |            | 25      | 13        | 23.38   | 23.53   | 23.61   | 25.00   |
|           |            | 25      | 25        | 23.32   | 23.59   | 23.38   | 25.00   |
|           |            | 50      | 0         | 23.58   | 23.52   | 23.69   | 25.00   |
|           | 16QAM      | 1       | 0         | 23.67   | 23.49   | 23.43   | 25.00   |
|           |            | 1       | 25        | 23.52   | 23.46   | 23.31   | 25.00   |
|           |            | 1       | 49        | 23.45   | 23.49   | 23.38   | 25.00   |
|           |            | 25      | 0         | 22.62   | 22.43   | 22.41   | 24.00   |
|           |            | 25      | 13        | 22.37   | 22.62   | 22.56   | 24.00   |
|           |            | 25      | 25        | 22.63   | 22.39   | 22.48   | 24.00   |
|           |            | 50      | 0         | 22.35   | 22.49   | 22.31   | 24.00   |
|           | 64QAM      | 1       | 0         | 22.68   | 22.75   | 22.59   | 24.00   |
|           |            | 1       | 25        | 22.50   | 22.55   | 22.58   | 24.00   |
|           |            | 1       | 49        | 22.40   | 22.52   | 22.63   | 24.00   |
|           |            | 25      | 0         | 21.47   | 21.69   | 21.44   | 23.00   |
|           |            | 25      | 13        | 21.44   | 21.48   | 21.41   | 23.00   |
|           |            | 25      | 25        | 21.47   | 21.56   | 21.38   | 23.00   |
|           |            | 50      | 0         | 21.52   | 21.42   | 21.65   | 23.00   |
|           | 256QAM     | 1       | 0         | 19.75   | 19.59   | 19.50   | 21.00   |
|           |            | 1       | 25        | 19.49   | 19.70   | 19.68   | 21.00   |
|           |            | 1       | 49        | 19.63   | 19.46   | 19.57   | 21.00   |
|           |            | 25      | 0         | 19.54   | 19.47   | 19.36   | 21.00   |
|           |            | 25      | 13        | 19.45   | 19.66   | 19.32   | 21.00   |
|           |            | 25      | 25        | 19.52   | 19.58   | 19.48   | 21.00   |
|           |            | 50      | 0         | 19.45   | 19.36   | 19.50   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 43665   | 44590   | 45515   |         |
| 15MHz     | QPSK       | 1       | 0         | 24.44   | 24.54   | 24.41   | 26.00   |
|           |            | 1       | 38        | 24.56   | 24.52   | 24.45   | 26.00   |
|           |            | 1       | 74        | 24.39   | 24.61   | 24.36   | 26.00   |
|           |            | 36      | 0         | 23.48   | 23.52   | 23.51   | 25.00   |
|           |            | 36      | 18        | 23.45   | 23.56   | 23.58   | 25.00   |
|           |            | 36      | 39        | 23.35   | 23.68   | 23.45   | 25.00   |
|           |            | 75      | 0         | 23.53   | 23.43   | 23.59   | 25.00   |
|           | 16QAM      | 1       | 0         | 23.60   | 23.41   | 23.45   | 25.00   |
|           |            | 1       | 38        | 23.49   | 23.53   | 23.33   | 25.00   |
|           |            | 1       | 74        | 23.42   | 23.41   | 23.48   | 25.00   |
|           |            | 36      | 0         | 22.61   | 22.40   | 22.48   | 24.00   |
|           |            | 36      | 18        | 22.44   | 22.52   | 22.54   | 24.00   |
|           |            | 36      | 39        | 22.53   | 22.37   | 22.51   | 24.00   |
|           |            | 75      | 0         | 22.31   | 22.56   | 22.41   | 24.00   |
|           | 64QAM      | 1       | 0         | 22.60   | 22.66   | 22.55   | 24.00   |
|           |            | 1       | 38        | 22.49   | 22.47   | 22.55   | 24.00   |
|           |            | 1       | 74        | 22.44   | 22.58   | 22.55   | 24.00   |
|           |            | 36      | 0         | 21.45   | 21.61   | 21.51   | 23.00   |
|           |            | 36      | 18        | 21.44   | 21.52   | 21.43   | 23.00   |
|           |            | 36      | 39        | 21.47   | 21.50   | 21.38   | 23.00   |
|           |            | 75      | 0         | 21.48   | 21.41   | 21.63   | 23.00   |
|           | 256QAM     | 1       | 0         | 19.65   | 19.55   | 19.55   | 21.00   |
|           |            | 1       | 38        | 19.40   | 19.62   | 19.58   | 21.00   |
|           |            | 1       | 74        | 19.59   | 19.50   | 19.55   | 21.00   |
|           |            | 36      | 0         | 19.46   | 19.43   | 19.41   | 21.00   |
|           |            | 36      | 18        | 19.50   | 19.57   | 19.42   | 21.00   |
|           |            | 36      | 39        | 19.44   | 19.52   | 19.47   | 21.00   |
|           |            | 75      | 0         | 19.54   | 19.39   | 19.43   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 43690   | 44590   | 45490   |         |
| 20MHz     | QPSK       | 1       | 0         | 24.53   | 24.56   | 24.48   | 26.00   |
|           |            | 1       | 50        | 24.48   | 24.44   | 24.49   | 26.00   |
|           |            | 1       | 99        | 24.47   | 24.51   | 24.45   | 26.00   |
|           |            | 50      | 0         | 23.46   | 23.51   | 23.46   | 25.00   |
|           |            | 50      | 25        | 23.47   | 23.49   | 23.51   | 25.00   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 50  | 50 | 23.44 | 23.58 | 23.53 | 25.00 |
|  |        | 100 | 0  | 23.51 | 23.48 | 23.53 | 25.00 |
|  | 16QAM  | 1   | 0  | 23.56 | 23.42 | 23.51 | 25.00 |
|  |        | 1   | 50 | 23.57 | 23.44 | 23.41 | 25.00 |
|  |        | 1   | 99 | 23.42 | 23.45 | 23.48 | 25.00 |
|  |        | 50  | 0  | 22.55 | 22.50 | 22.54 | 24.00 |
|  |        | 50  | 25 | 22.50 | 22.57 | 22.46 | 24.00 |
|  |        | 50  | 50 | 22.51 | 22.46 | 22.51 | 24.00 |
|  |        | 100 | 0  | 22.38 | 22.47 | 22.51 | 24.00 |
|  |        | 1   | 0  | 22.51 | 22.56 | 22.47 | 24.00 |
|  | 64QAM  | 1   | 50 | 22.49 | 22.53 | 22.53 | 24.00 |
|  |        | 1   | 99 | 22.48 | 22.48 | 22.51 | 24.00 |
|  |        | 50  | 0  | 21.52 | 21.55 | 21.54 | 23.00 |
|  |        | 50  | 25 | 21.51 | 21.44 | 21.40 | 23.00 |
|  |        | 50  | 50 | 21.46 | 21.47 | 21.45 | 23.00 |
|  |        | 100 | 0  | 21.50 | 21.49 | 21.54 | 23.00 |
|  | 256QAM | 1   | 0  | 19.56 | 19.54 | 19.56 | 21.00 |
|  |        | 1   | 50 | 19.43 | 19.54 | 19.49 | 21.00 |
|  |        | 1   | 99 | 19.51 | 19.46 | 19.50 | 21.00 |
|  |        | 50  | 0  | 19.46 | 19.42 | 19.43 | 21.00 |
|  |        | 50  | 25 | 19.54 | 19.52 | 19.46 | 21.00 |
|  |        | 50  | 50 | 19.44 | 19.42 | 19.47 | 21.00 |
|  |        | 100 | 0  | 19.44 | 19.49 | 19.46 | 21.00 |

| LTE Band 43 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 43615                | 44590   | 45565   |         |
| 5MHz             | QPSK       | 1       | 0         | 18.46                | 18.71   | 18.44   | 20.00   |
|                  |            | 1       | 13        | 18.49                | 18.65   | 18.52   | 20.00   |
|                  |            | 1       | 24        | 18.41                | 18.53   | 18.38   | 20.00   |
|                  |            | 12      | 0         | 18.64                | 18.55   | 18.39   | 20.00   |
|                  |            | 12      | 6         | 18.36                | 18.67   | 18.44   | 20.00   |
|                  |            | 12      | 13        | 18.36                | 18.52   | 18.60   | 20.00   |
|                  |            | 25      | 0         | 18.57                | 18.29   | 18.60   | 20.00   |
|                  | 16QAM      | 1       | 0         | 18.47                | 18.19   | 18.53   | 20.00   |
|                  |            | 1       | 13        | 18.32                | 18.71   | 18.46   | 20.00   |
|                  |            | 1       | 24        | 18.47                | 18.56   | 18.41   | 20.00   |
|                  |            | 12      | 0         | 18.53                | 18.41   | 18.50   | 20.00   |
|                  |            | 12      | 6         | 18.54                | 18.46   | 18.17   | 20.00   |
|                  |            | 12      | 13        | 18.45                | 18.45   | 18.41   | 20.00   |
|                  | 64QAM      | 25      | 0         | 18.43                | 18.43   | 18.58   | 20.00   |
|                  |            | 1       | 0         | 18.53                | 18.32   | 18.30   | 20.00   |
|                  |            | 1       | 13        | 18.36                | 18.52   | 18.68   | 20.00   |
|                  |            | 1       | 24        | 18.48                | 18.42   | 18.46   | 20.00   |
|                  |            | 12      | 0         | 18.38                | 18.38   | 18.47   | 20.00   |
|                  |            | 12      | 6         | 18.42                | 18.47   | 18.52   | 20.00   |
|                  | 256QAM     | 12      | 13        | 18.59                | 18.57   | 18.57   | 20.00   |
|                  |            | 25      | 0         | 18.38                | 18.43   | 18.64   | 20.00   |
|                  |            | 1       | 0         | 18.57                | 18.54   | 18.36   | 20.00   |
|                  |            | 1       | 13        | 18.62                | 18.57   | 18.53   | 20.00   |
|                  |            | 1       | 24        | 18.44                | 18.51   | 18.52   | 20.00   |
|                  |            | 12      | 0         | 18.66                | 18.38   | 18.40   | 20.00   |
|                  |            | 12      | 6         | 18.48                | 18.71   | 18.51   | 20.00   |
| 10MHz            | QPSK       | 12      | 13        | 18.40                | 18.33   | 18.68   | 20.00   |
|                  |            | 25      | 0         | 18.42                | 18.33   | 18.40   | 20.00   |
|                  |            | 1       | 0         | 18.42                | 18.79   | 18.42   | 20.00   |
|                  |            | 1       | 25        | 18.51                | 18.59   | 18.52   | 20.00   |
|                  |            | 1       | 49        | 18.36                | 18.61   | 18.44   | 20.00   |
|                  |            | 25      | 0         | 18.61                | 18.45   | 18.38   | 20.00   |
|                  |            | 25      | 13        | 18.37                | 18.68   | 18.49   | 20.00   |
|                  | 16QAM      | 25      | 25        | 18.37                | 18.47   | 18.59   | 20.00   |
|                  |            | 50      | 0         | 18.60                | 18.33   | 18.61   | 20.00   |
|                  |            | 1       | 0         | 18.56                | 18.24   | 18.57   | 20.00   |
|                  |            | 1       | 25        | 18.42                | 18.62   | 18.43   | 20.00   |
|                  |            | 1       | 49        | 18.56                | 18.46   | 18.35   | 20.00   |
|                  |            | 25      | 0         | 18.62                | 18.39   | 18.50   | 20.00   |

|           |            |         |           |                  |                  |                  |         |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 25      | 13        | 18.45            | 18.51            | 18.27            | 20.00   |
|           |            | 25      | 25        | 18.35            | 18.50            | 18.44            | 20.00   |
|           |            | 50      | 0         | 18.47            | 18.43            | 18.59            | 20.00   |
|           | 64QAM      | 1       | 0         | 18.46            | 18.30            | 18.33            | 20.00   |
|           |            | 1       | 25        | 18.38            | 18.53            | 18.66            | 20.00   |
|           |            | 1       | 49        | 18.39            | 18.40            | 18.54            | 20.00   |
|           |            | 25      | 0         | 18.39            | 18.31            | 18.48            | 20.00   |
|           |            | 25      | 13        | 18.40            | 18.42            | 18.49            | 20.00   |
|           |            | 25      | 25        | 18.52            | 18.50            | 18.49            | 20.00   |
|           |            | 50      | 0         | 18.45            | 18.45            | 18.64            | 20.00   |
|           | 256QAM     | 1       | 0         | 18.55            | 18.60            | 18.37            | 20.00   |
|           |            | 1       | 25        | 18.61            | 18.58            | 18.50            | 20.00   |
|           |            | 1       | 49        | 18.51            | 18.55            | 18.42            | 20.00   |
|           |            | 25      | 0         | 18.56            | 18.37            | 18.34            | 20.00   |
|           |            | 25      | 13        | 18.55            | 18.61            | 18.49            | 20.00   |
|           |            | 25      | 25        | 18.42            | 18.41            | 18.63            | 20.00   |
|           |            | 50      | 0         | 18.33            | 18.43            | 18.36            | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>43665 | Channel<br>44590 | Channel<br>45515 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 18.43            | 18.73            | 18.41            | 20.00   |
|           |            | 1       | 38        | 18.55            | 18.52            | 18.52            | 20.00   |
|           |            | 1       | 74        | 18.40            | 18.52            | 18.38            | 20.00   |
|           |            | 36      | 0         | 18.53            | 18.43            | 18.43            | 20.00   |
|           |            | 36      | 18        | 18.44            | 18.61            | 18.50            | 20.00   |
|           |            | 36      | 39        | 18.45            | 18.52            | 18.56            | 20.00   |
|           |            | 75      | 0         | 18.57            | 18.40            | 18.53            | 20.00   |
|           | 16QAM      | 1       | 0         | 18.47            | 18.32            | 18.58            | 20.00   |
|           |            | 1       | 38        | 18.43            | 18.55            | 18.34            | 20.00   |
|           |            | 1       | 74        | 18.53            | 18.37            | 18.43            | 20.00   |
|           |            | 36      | 0         | 18.56            | 18.42            | 18.47            | 20.00   |
|           |            | 36      | 18        | 18.50            | 18.52            | 18.36            | 20.00   |
|           |            | 36      | 39        | 18.43            | 18.46            | 18.39            | 20.00   |
|           |            | 75      | 0         | 18.42            | 18.40            | 18.53            | 20.00   |
|           | 64QAM      | 1       | 0         | 18.44            | 18.39            | 18.37            | 20.00   |
|           |            | 1       | 38        | 18.40            | 18.52            | 18.62            | 20.00   |
|           |            | 1       | 74        | 18.39            | 18.40            | 18.54            | 20.00   |
|           |            | 36      | 0         | 18.48            | 18.40            | 18.45            | 20.00   |
|           |            | 36      | 18        | 18.41            | 18.35            | 18.41            | 20.00   |
|           |            | 36      | 39        | 18.42            | 18.51            | 18.39            | 20.00   |
|           |            | 75      | 0         | 18.38            | 18.37            | 18.57            | 20.00   |
|           | 256QAM     | 1       | 0         | 18.55            | 18.59            | 18.29            | 20.00   |
|           |            | 1       | 38        | 18.51            | 18.56            | 18.49            | 20.00   |
|           |            | 1       | 74        | 18.55            | 18.49            | 18.42            | 20.00   |
|           |            | 36      | 0         | 18.51            | 18.35            | 18.32            | 20.00   |
|           |            | 36      | 18        | 18.60            | 18.61            | 18.53            | 20.00   |
|           |            | 36      | 39        | 18.52            | 18.37            | 18.58            | 20.00   |
|           |            | 75      | 0         | 18.40            | 18.38            | 18.42            | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>43690 | Channel<br>44590 | Channel<br>45490 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 18.81            | 18.97            | 18.78            | 20.00   |
|           |            | 1       | 50        | 18.78            | 18.74            | 18.75            | 20.00   |
|           |            | 1       | 99        | 18.77            | 18.78            | 18.73            | 20.00   |
|           |            | 50      | 0         | 18.73            | 18.78            | 18.78            | 20.00   |
|           |            | 50      | 25        | 18.77            | 18.82            | 18.78            | 20.00   |
|           |            | 50      | 50        | 18.69            | 18.73            | 18.82            | 20.00   |
|           |            | 100     | 0         | 18.81            | 18.80            | 18.84            | 20.00   |
|           | 16QAM      | 1       | 0         | 18.71            | 18.70            | 18.79            | 20.00   |
|           |            | 1       | 50        | 18.78            | 18.76            | 18.70            | 20.00   |
|           |            | 1       | 99        | 18.73            | 18.74            | 18.78            | 20.00   |
|           |            | 50      | 0         | 18.80            | 18.77            | 18.81            | 20.00   |
|           |            | 50      | 25        | 18.76            | 18.82            | 18.73            | 20.00   |
|           |            | 50      | 50        | 18.83            | 18.75            | 18.78            | 20.00   |
|           |            | 100     | 0         | 18.70            | 18.75            | 18.79            | 20.00   |
|           | 64QAM      | 1       | 0         | 18.78            | 18.70            | 18.75            | 20.00   |
|           |            | 1       | 50        | 18.76            | 18.80            | 18.84            | 20.00   |
|           |            | 1       | 99        | 18.73            | 18.77            | 18.83            | 20.00   |
|           |            | 50      | 0         | 18.78            | 18.73            | 18.82            | 20.00   |
|           |            | 50      | 25        | 18.78            | 18.69            | 18.66            | 20.00   |
|           |            | 50      | 50        | 18.75            | 18.78            | 18.70            | 20.00   |
|           |            | 100     | 0         | 18.78            | 18.76            | 18.84            | 20.00   |

|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  | 256QAM | 1   | 0  | 18.77 | 18.80 | 18.68 | 20.00 |
|  |        | 1   | 50 | 18.74 | 18.80 | 18.74 | 20.00 |
|  |        | 1   | 99 | 18.77 | 18.75 | 18.82 | 20.00 |
|  |        | 50  | 0  | 18.72 | 18.75 | 18.70 | 20.00 |
|  |        | 50  | 25 | 18.80 | 18.81 | 18.74 | 20.00 |
|  |        | 50  | 50 | 18.72 | 18.73 | 18.78 | 20.00 |
|  |        | 100 | 0  | 18.69 | 18.76 | 18.78 | 20.00 |

| LTE Band 43 Hotspot/Body worn |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 43615                | 44590   | 45565   |         |
| 5MHz                          | QPSK       | 1       | 0         | 17.68                | 17.61   | 17.60   | 19.00   |
|                               |            | 1       | 13        | 17.55                | 17.51   | 17.45   | 19.00   |
|                               |            | 1       | 24        | 17.38                | 17.61   | 17.26   | 19.00   |
|                               |            | 12      | 0         | 17.24                | 17.53   | 17.65   | 19.00   |
|                               |            | 12      | 6         | 17.53                | 17.60   | 17.57   | 19.00   |
|                               |            | 12      | 13        | 17.28                | 17.38   | 17.64   | 19.00   |
|                               | 16QAM      | 25      | 0         | 17.52                | 17.49   | 17.41   | 19.00   |
|                               |            | 1       | 0         | 17.37                | 17.32   | 17.61   | 19.00   |
|                               |            | 1       | 13        | 17.56                | 17.36   | 17.30   | 19.00   |
|                               |            | 1       | 24        | 17.49                | 17.35   | 17.53   | 19.00   |
|                               |            | 12      | 0         | 17.47                | 17.70   | 17.71   | 19.00   |
|                               |            | 12      | 6         | 17.58                | 17.50   | 17.49   | 19.00   |
|                               | 64QAM      | 12      | 13        | 17.70                | 17.39   | 17.58   | 19.00   |
|                               |            | 25      | 0         | 17.48                | 17.41   | 17.44   | 19.00   |
|                               |            | 1       | 0         | 17.35                | 17.43   | 17.32   | 19.00   |
|                               |            | 1       | 13        | 17.53                | 17.58   | 17.50   | 19.00   |
|                               |            | 1       | 24        | 17.36                | 17.49   | 17.71   | 19.00   |
|                               |            | 12      | 0         | 17.39                | 17.34   | 17.36   | 19.00   |
| 10MHz                         | QPSK       | 12      | 6         | 17.46                | 17.31   | 17.39   | 19.00   |
|                               |            | 12      | 13        | 17.52                | 17.62   | 17.44   | 19.00   |
|                               |            | 25      | 0         | 17.51                | 17.54   | 17.39   | 19.00   |
|                               | 16QAM      | 1       | 0         | 17.53                | 17.62   | 17.64   | 19.00   |
|                               |            | 1       | 13        | 17.41                | 17.59   | 17.52   | 19.00   |
|                               |            | 1       | 24        | 17.58                | 17.56   | 17.35   | 19.00   |
|                               | 64QAM      | 12      | 0         | 17.60                | 17.24   | 17.24   | 19.00   |
|                               |            | 12      | 6         | 17.65                | 17.62   | 17.39   | 19.00   |
|                               |            | 12      | 13        | 17.48                | 17.48   | 17.44   | 19.00   |
|                               |            | 25      | 0         | 17.37                | 17.39   | 17.38   | 19.00   |
|                               | 256QAM     | 1       | 0         | 17.62                | 17.61   | 17.51   | 19.00   |
|                               |            | 1       | 25        | 17.57                | 17.44   | 17.36   | 19.00   |
|                               |            | 1       | 49        | 17.40                | 17.58   | 17.36   | 19.00   |
|                               |            | 25      | 0         | 17.33                | 17.46   | 17.63   | 19.00   |
|                               |            | 25      | 13        | 17.56                | 17.64   | 17.50   | 19.00   |
|                               |            | 25      | 25        | 17.24                | 17.31   | 17.56   | 19.00   |
| 10MHz                         | QPSK       | 50      | 0         | 17.50                | 17.52   | 17.50   | 19.00   |
|                               |            | 1       | 0         | 17.38                | 17.38   | 17.52   | 19.00   |
|                               |            | 1       | 25        | 17.57                | 17.43   | 17.31   | 19.00   |
|                               |            | 1       | 49        | 17.39                | 17.34   | 17.52   | 19.00   |
|                               |            | 25      | 0         | 17.43                | 17.61   | 17.64   | 19.00   |
|                               |            | 25      | 13        | 17.50                | 17.53   | 17.46   | 19.00   |
|                               | 16QAM      | 25      | 25        | 17.70                | 17.41   | 17.49   | 19.00   |
|                               |            | 50      | 0         | 17.38                | 17.39   | 17.52   | 19.00   |
|                               |            | 1       | 0         | 17.36                | 17.42   | 17.35   | 19.00   |
|                               |            | 1       | 25        | 17.48                | 17.58   | 17.54   | 19.00   |
|                               |            | 1       | 49        | 17.33                | 17.41   | 17.64   | 19.00   |
|                               |            | 25      | 0         | 17.35                | 17.36   | 17.39   | 19.00   |
|                               | 64QAM      | 25      | 13        | 17.47                | 17.34   | 17.35   | 19.00   |
|                               |            | 25      | 25        | 17.45                | 17.59   | 17.45   | 19.00   |
|                               |            | 50      | 0         | 17.61                | 17.53   | 17.44   | 19.00   |
|                               | 256QAM     | 1       | 0         | 17.58                | 17.57   | 17.56   | 19.00   |
|                               |            | 1       | 25        | 17.41                | 17.58   | 17.45   | 19.00   |
|                               |            | 1       | 49        | 17.65                | 17.46   | 17.32   | 19.00   |
|                               |            | 25      | 0         | 17.53                | 17.32   | 17.20   | 19.00   |
|                               |            | 25      | 13        | 17.61                | 17.54   | 17.44   | 19.00   |
|                               |            | 25      | 25        | 17.38                | 17.40   | 17.37   | 19.00   |

|           |            | 50      | 0         | 17.27   | 17.43   | 17.35   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 43665   | 44590   | 45515   |         |
| 15MHz     | QPSK       | 1       | 0         | 17.58   | 17.68   | 17.61   | 19.00   |
|           |            | 1       | 38        | 17.51   | 17.35   | 17.35   | 19.00   |
|           |            | 1       | 74        | 17.46   | 17.57   | 17.29   | 19.00   |
|           |            | 36      | 0         | 17.40   | 17.52   | 17.57   | 19.00   |
|           |            | 36      | 18        | 17.55   | 17.60   | 17.52   | 19.00   |
|           |            | 36      | 39        | 17.33   | 17.34   | 17.60   | 19.00   |
|           |            | 75      | 0         | 17.42   | 17.55   | 17.55   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.34   | 17.33   | 17.42   | 19.00   |
|           |            | 1       | 38        | 17.55   | 17.40   | 17.30   | 19.00   |
|           |            | 1       | 74        | 17.32   | 17.36   | 17.48   | 19.00   |
|           |            | 36      | 0         | 17.49   | 17.52   | 17.56   | 19.00   |
|           |            | 36      | 18        | 17.48   | 17.63   | 17.37   | 19.00   |
|           |            | 36      | 39        | 17.61   | 17.41   | 17.52   | 19.00   |
|           |            | 75      | 0         | 17.48   | 17.37   | 17.59   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.35   | 17.33   | 17.44   | 19.00   |
|           |            | 1       | 38        | 17.41   | 17.55   | 17.61   | 19.00   |
|           |            | 1       | 74        | 17.35   | 17.47   | 17.63   | 19.00   |
|           |            | 36      | 0         | 17.38   | 17.42   | 17.48   | 19.00   |
|           |            | 36      | 18        | 17.45   | 17.37   | 17.38   | 19.00   |
|           |            | 36      | 39        | 17.36   | 17.52   | 17.40   | 19.00   |
|           |            | 75      | 0         | 17.57   | 17.44   | 17.44   | 19.00   |
|           | 256QAM     | 1       | 0         | 17.59   | 17.53   | 17.48   | 19.00   |
|           |            | 1       | 38        | 17.51   | 17.58   | 17.46   | 19.00   |
|           |            | 1       | 74        | 17.57   | 17.54   | 17.40   | 19.00   |
|           |            | 36      | 0         | 17.50   | 17.36   | 17.28   | 19.00   |
|           |            | 36      | 18        | 17.51   | 17.62   | 17.35   | 19.00   |
|           |            | 36      | 39        | 17.31   | 17.36   | 17.42   | 19.00   |
|           |            | 75      | 0         | 17.31   | 17.49   | 17.34   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 43690   | 44590   | 45490   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.84   | 17.92   | 17.81   | 19.00   |
|           |            | 1       | 50        | 17.79   | 17.72   | 17.75   | 19.00   |
|           |            | 1       | 99        | 17.75   | 17.79   | 17.69   | 19.00   |
|           |            | 50      | 0         | 17.71   | 17.74   | 17.77   | 19.00   |
|           |            | 50      | 25        | 17.78   | 17.80   | 17.74   | 19.00   |
|           |            | 50      | 50        | 17.71   | 17.68   | 17.84   | 19.00   |
|           |            | 100     | 0         | 17.81   | 17.78   | 17.79   | 19.00   |
|           | 16QAM      | 1       | 0         | 17.66   | 17.71   | 17.82   | 19.00   |
|           |            | 1       | 50        | 17.76   | 17.73   | 17.66   | 19.00   |
|           |            | 1       | 99        | 17.68   | 17.70   | 17.75   | 19.00   |
|           |            | 50      | 0         | 17.79   | 17.79   | 17.80   | 19.00   |
|           |            | 50      | 25        | 17.71   | 17.84   | 17.74   | 19.00   |
|           |            | 50      | 50        | 17.81   | 17.72   | 17.77   | 19.00   |
|           |            | 100     | 0         | 17.70   | 17.72   | 17.81   | 19.00   |
|           | 64QAM      | 1       | 0         | 17.75   | 17.68   | 17.72   | 19.00   |
|           |            | 1       | 50        | 17.72   | 17.75   | 17.82   | 19.00   |
|           |            | 1       | 99        | 17.72   | 17.78   | 17.86   | 19.00   |
|           |            | 50      | 0         | 17.75   | 17.69   | 17.80   | 19.00   |
|           |            | 50      | 25        | 17.79   | 17.66   | 17.68   | 19.00   |
|           |            | 50      | 50        | 17.73   | 17.73   | 17.68   | 19.00   |
|           |            | 100     | 0         | 17.81   | 17.74   | 17.82   | 19.00   |
|           | 256QAM     | 1       | 0         | 17.79   | 17.76   | 17.71   | 19.00   |
|           |            | 1       | 50        | 17.76   | 17.82   | 17.73   | 19.00   |
|           |            | 1       | 99        | 17.80   | 17.77   | 17.80   | 19.00   |
|           |            | 50      | 0         | 17.70   | 17.75   | 17.66   | 19.00   |
|           |            | 50      | 25        | 17.82   | 17.82   | 17.71   | 19.00   |
|           |            | 50      | 50        | 17.68   | 17.69   | 17.81   | 19.00   |
|           |            | 100     | 0         | 17.69   | 17.74   | 17.74   | 19.00   |

| LTE Band 48 full power |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth              | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                        |            |         |           | 55265                | 55990   | 56715   |         |
| 5MHz                   | QPSK       | 1       | 0         | 23.28                | 23.42   | 23.52   | 25.00   |
|                        |            | 1       | 13        | 23.61                | 23.30   | 23.51   | 25.00   |
|                        |            | 1       | 24        | 23.66                | 23.30   | 23.51   | 25.00   |

|           |            | 12      | 0         | 22.32   | 22.55   | 22.35   | 24.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 6         | 22.63   | 22.36   | 22.52   | 24.00   |
|           |            | 12      | 13        | 22.38   | 22.49   | 22.30   | 24.00   |
|           |            | 25      | 0         | 22.45   | 22.50   | 22.49   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.70   | 22.57   | 22.30   | 24.00   |
|           |            | 1       | 13        | 22.36   | 22.37   | 22.37   | 24.00   |
|           |            | 1       | 24        | 22.44   | 22.59   | 22.47   | 24.00   |
|           |            | 12      | 0         | 21.42   | 21.53   | 21.52   | 23.00   |
|           |            | 12      | 6         | 21.50   | 21.39   | 21.48   | 23.00   |
|           |            | 12      | 13        | 21.50   | 21.28   | 21.58   | 23.00   |
|           |            | 25      | 0         | 21.41   | 21.64   | 21.51   | 23.00   |
|           |            | 1       | 0         | 21.45   | 21.35   | 21.37   | 23.00   |
|           | 64QAM      | 1       | 13        | 21.31   | 21.65   | 21.36   | 23.00   |
|           |            | 1       | 24        | 21.58   | 21.31   | 21.40   | 23.00   |
|           |            | 12      | 0         | 20.23   | 20.38   | 20.55   | 22.00   |
|           |            | 12      | 6         | 20.45   | 20.27   | 20.60   | 22.00   |
|           |            | 12      | 13        | 20.46   | 20.58   | 20.57   | 22.00   |
|           |            | 25      | 0         | 20.42   | 20.49   | 20.54   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.60   | 18.49   | 18.44   | 20.00   |
|           |            | 1       | 13        | 18.47   | 18.48   | 18.65   | 20.00   |
|           |            | 1       | 24        | 18.31   | 18.32   | 18.51   | 20.00   |
|           |            | 12      | 0         | 18.47   | 18.53   | 18.40   | 20.00   |
|           |            | 12      | 6         | 18.48   | 18.46   | 18.60   | 20.00   |
|           |            | 12      | 13        | 18.66   | 18.47   | 18.40   | 20.00   |
|           |            | 25      | 0         | 18.52   | 18.50   | 18.61   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55290   | 55990   | 56690   |         |
| 10MHz     | QPSK       | 1       | 0         | 23.38   | 23.52   | 23.51   | 25.00   |
|           |            | 1       | 25        | 23.51   | 23.31   | 23.43   | 25.00   |
|           |            | 1       | 49        | 23.61   | 23.36   | 23.43   | 25.00   |
|           |            | 25      | 0         | 22.35   | 22.53   | 22.39   | 24.00   |
|           |            | 25      | 13        | 22.57   | 22.42   | 22.49   | 24.00   |
|           |            | 25      | 25        | 22.36   | 22.57   | 22.28   | 24.00   |
|           |            | 50      | 0         | 22.50   | 22.58   | 22.40   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.61   | 22.48   | 22.35   | 24.00   |
|           |            | 1       | 25        | 22.31   | 22.35   | 22.45   | 24.00   |
|           |            | 1       | 49        | 22.53   | 22.59   | 22.41   | 24.00   |
|           |            | 25      | 0         | 21.42   | 21.47   | 21.49   | 23.00   |
|           |            | 25      | 13        | 21.43   | 21.47   | 21.50   | 23.00   |
|           |            | 25      | 25        | 21.58   | 21.38   | 21.57   | 23.00   |
|           |            | 50      | 0         | 21.50   | 21.58   | 21.60   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.42   | 21.41   | 21.33   | 23.00   |
|           |            | 1       | 25        | 21.37   | 21.55   | 21.40   | 23.00   |
|           |            | 1       | 49        | 21.50   | 21.29   | 21.43   | 23.00   |
|           |            | 25      | 0         | 20.26   | 20.36   | 20.61   | 22.00   |
|           |            | 25      | 13        | 20.41   | 20.36   | 20.59   | 22.00   |
|           |            | 25      | 25        | 20.46   | 20.54   | 20.50   | 22.00   |
|           |            | 50      | 0         | 20.35   | 20.47   | 20.50   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.54   | 18.45   | 18.51   | 20.00   |
|           |            | 1       | 25        | 18.44   | 18.54   | 18.56   | 20.00   |
|           |            | 1       | 49        | 18.28   | 18.39   | 18.45   | 20.00   |
|           |            | 25      | 0         | 18.52   | 18.62   | 18.44   | 20.00   |
|           |            | 25      | 13        | 18.38   | 18.37   | 18.56   | 20.00   |
|           |            | 25      | 25        | 18.58   | 18.55   | 18.40   | 20.00   |
|           |            | 50      | 0         | 18.57   | 18.58   | 18.53   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55315   | 55990   | 56665   |         |
| 15MHz     | QPSK       | 1       | 0         | 23.47   | 23.62   | 23.49   | 25.00   |
|           |            | 1       | 38        | 23.50   | 23.35   | 23.50   | 25.00   |
|           |            | 1       | 74        | 23.54   | 23.41   | 23.38   | 25.00   |
|           |            | 36      | 0         | 22.40   | 22.56   | 22.46   | 24.00   |
|           |            | 36      | 18        | 22.48   | 22.41   | 22.48   | 24.00   |
|           |            | 36      | 39        | 22.42   | 22.54   | 22.38   | 24.00   |
|           |            | 75      | 0         | 22.48   | 22.55   | 22.40   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.56   | 22.57   | 22.44   | 24.00   |
|           |            | 1       | 38        | 22.40   | 22.43   | 22.51   | 24.00   |
|           |            | 1       | 74        | 22.54   | 22.52   | 22.36   | 24.00   |
|           |            | 36      | 0         | 21.48   | 21.56   | 21.52   | 23.00   |
|           |            | 36      | 18        | 21.41   | 21.44   | 21.46   | 23.00   |
|           |            | 36      | 39        | 21.53   | 21.40   | 21.56   | 23.00   |

|           | 64QAM      | 75      | 0         | 21.43   | 21.57   | 21.51   | 23.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 21.45   | 21.42   | 21.38   | 23.00   |
|           |            | 1       | 38        | 21.40   | 21.47   | 21.48   | 23.00   |
|           |            | 1       | 74        | 21.43   | 21.39   | 21.49   | 23.00   |
|           |            | 36      | 0         | 20.35   | 20.45   | 20.57   | 22.00   |
|           |            | 36      | 18        | 20.34   | 20.35   | 20.50   | 22.00   |
|           |            | 36      | 39        | 20.55   | 20.56   | 20.44   | 22.00   |
|           | 256QAM     | 75      | 0         | 20.42   | 20.40   | 20.55   | 22.00   |
|           |            | 1       | 0         | 18.51   | 18.42   | 18.46   | 20.00   |
|           |            | 1       | 38        | 18.53   | 18.53   | 18.47   | 20.00   |
|           |            | 1       | 74        | 18.37   | 18.46   | 18.48   | 20.00   |
|           |            | 36      | 0         | 18.51   | 18.52   | 18.48   | 20.00   |
|           |            | 36      | 18        | 18.42   | 18.34   | 18.46   | 20.00   |
|           |            | 36      | 39        | 18.57   | 18.47   | 18.46   | 20.00   |
|           |            | 75      | 0         | 18.55   | 18.54   | 18.55   | 20.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55340   | 55990   | 56640   |         |
| 20MHz     | QPSK       | 1       | 0         | 23.43   | 23.57   | 23.44   | 25.00   |
|           |            | 1       | 50        | 23.47   | 23.44   | 23.47   | 25.00   |
|           |            | 1       | 99        | 23.47   | 23.48   | 23.42   | 25.00   |
|           |            | 50      | 0         | 22.44   | 22.50   | 22.48   | 24.00   |
|           |            | 50      | 25        | 22.46   | 22.44   | 22.48   | 24.00   |
|           |            | 50      | 50        | 22.50   | 22.46   | 22.45   | 24.00   |
|           |            | 100     | 0         | 22.46   | 22.47   | 22.46   | 24.00   |
|           | 16QAM      | 1       | 0         | 22.49   | 22.49   | 22.43   | 24.00   |
|           |            | 1       | 50        | 22.48   | 22.44   | 22.42   | 24.00   |
|           |            | 1       | 99        | 22.50   | 22.46   | 22.45   | 24.00   |
|           |            | 50      | 0         | 21.50   | 21.47   | 21.46   | 23.00   |
|           |            | 50      | 25        | 21.47   | 21.45   | 21.46   | 23.00   |
|           |            | 50      | 50        | 21.49   | 21.45   | 21.48   | 23.00   |
|           |            | 100     | 0         | 21.47   | 21.47   | 21.47   | 23.00   |
|           | 64QAM      | 1       | 0         | 21.43   | 21.48   | 21.47   | 23.00   |
|           |            | 1       | 50        | 21.45   | 21.47   | 21.44   | 23.00   |
|           |            | 1       | 99        | 21.47   | 21.46   | 21.49   | 23.00   |
|           |            | 50      | 0         | 20.43   | 20.46   | 20.49   | 22.00   |
|           |            | 50      | 25        | 20.43   | 20.42   | 20.42   | 22.00   |
|           |            | 50      | 50        | 20.49   | 20.46   | 20.48   | 22.00   |
|           |            | 100     | 0         | 20.43   | 20.49   | 20.45   | 22.00   |
|           | 256QAM     | 1       | 0         | 18.46   | 18.48   | 18.48   | 20.00   |
|           |            | 1       | 50        | 18.47   | 18.49   | 18.45   | 20.00   |
|           |            | 1       | 99        | 18.42   | 18.44   | 18.43   | 20.00   |
|           |            | 50      | 0         | 18.47   | 18.42   | 18.43   | 20.00   |
|           |            | 50      | 25        | 18.47   | 18.44   | 18.43   | 20.00   |
|           |            | 50      | 50        | 18.48   | 18.49   | 18.46   | 20.00   |
|           |            | 100     | 0         | 18.45   | 18.49   | 18.47   | 20.00   |

| LTE Band 48 Head |            |         |           | Conducted Power(dBm) |         |         |         |
|------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth        | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                  |            |         |           | 55265                | 55990   | 56715   |         |
| 5MHz             | QPSK       | 1       | 0         | 17.30                | 17.47   | 17.44   | 19.00   |
|                  |            | 1       | 13        | 17.56                | 17.36   | 17.63   | 19.00   |
|                  |            | 1       | 24        | 17.45                | 17.54   | 17.56   | 19.00   |
|                  |            | 12      | 0         | 17.42                | 17.37   | 17.40   | 19.00   |
|                  |            | 12      | 6         | 17.55                | 17.43   | 17.47   | 19.00   |
|                  |            | 12      | 13        | 17.39                | 17.44   | 17.44   | 19.00   |
|                  |            | 25      | 0         | 17.26                | 17.28   | 17.55   | 19.00   |
|                  | 16QAM      | 1       | 0         | 17.46                | 17.47   | 17.44   | 19.00   |
|                  |            | 1       | 13        | 17.66                | 17.58   | 17.39   | 19.00   |
|                  |            | 1       | 24        | 17.41                | 17.48   | 17.35   | 19.00   |
|                  |            | 12      | 0         | 17.56                | 17.46   | 17.50   | 19.00   |
|                  |            | 12      | 6         | 17.45                | 17.43   | 17.51   | 19.00   |
|                  |            | 12      | 13        | 17.49                | 17.64   | 17.32   | 19.00   |
|                  |            | 25      | 0         | 17.35                | 17.50   | 17.51   | 19.00   |
|                  | 64QAM      | 1       | 0         | 17.55                | 17.55   | 17.43   | 19.00   |
|                  |            | 1       | 13        | 17.49                | 17.35   | 17.34   | 19.00   |
|                  |            | 1       | 24        | 17.53                | 17.50   | 17.38   | 19.00   |
|                  |            | 12      | 0         | 17.56                | 17.45   | 17.54   | 19.00   |
|                  |            | 12      | 6         | 17.28                | 17.41   | 17.49   | 19.00   |

|           | 256QAM     | 12      | 13        | 17.45   | 17.33   | 17.46   | 19.00   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 0         | 17.41   | 17.67   | 17.37   | 19.00   |
|           |            | 1       | 0         | 17.54   | 17.40   | 17.38   | 19.00   |
|           |            | 1       | 13        | 17.52   | 17.45   | 17.54   | 19.00   |
|           |            | 1       | 24        | 17.42   | 17.47   | 17.38   | 19.00   |
|           |            | 12      | 0         | 17.50   | 17.31   | 17.20   | 19.00   |
|           |            | 12      | 6         | 17.38   | 17.44   | 17.45   | 19.00   |
|           |            | 12      | 13        | 17.37   | 17.34   | 17.59   | 19.00   |
|           |            | 25      | 0         | 17.49   | 17.43   | 17.34   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | QPSK       | 1       | 0         | 55290   | 55990   | 56690   | 19.00   |
|           |            | 1       | 25        | 17.27   | 17.49   | 17.39   | 19.00   |
|           |            | 1       | 49        | 17.46   | 17.43   | 17.58   | 19.00   |
|           |            | 1       | 49        | 17.38   | 17.62   | 17.48   | 19.00   |
|           |            | 25      | 0         | 17.47   | 17.31   | 17.42   | 19.00   |
|           |            | 25      | 13        | 17.49   | 17.46   | 17.46   | 19.00   |
|           |            | 25      | 25        | 17.39   | 17.51   | 17.46   | 19.00   |
|           | 16QAM      | 50      | 0         | 17.36   | 17.28   | 17.49   | 19.00   |
|           |            | 1       | 0         | 17.46   | 17.39   | 17.42   | 19.00   |
|           |            | 1       | 25        | 17.65   | 17.50   | 17.39   | 19.00   |
|           |            | 1       | 49        | 17.35   | 17.39   | 17.41   | 19.00   |
|           |            | 25      | 0         | 17.61   | 17.54   | 17.54   | 19.00   |
|           |            | 25      | 13        | 17.53   | 17.53   | 17.46   | 19.00   |
|           |            | 25      | 25        | 17.43   | 17.59   | 17.36   | 19.00   |
|           | 64QAM      | 50      | 0         | 17.40   | 17.50   | 17.47   | 19.00   |
|           |            | 1       | 0         | 17.49   | 17.61   | 17.35   | 19.00   |
|           |            | 1       | 25        | 17.40   | 17.45   | 17.37   | 19.00   |
|           |            | 1       | 49        | 17.48   | 17.60   | 17.39   | 19.00   |
|           |            | 25      | 0         | 17.49   | 17.49   | 17.48   | 19.00   |
|           |            | 25      | 13        | 17.38   | 17.49   | 17.40   | 19.00   |
|           |            | 25      | 25        | 17.39   | 17.41   | 17.54   | 19.00   |
|           | 256QAM     | 50      | 0         | 17.49   | 17.66   | 17.32   | 19.00   |
|           |            | 1       | 0         | 17.45   | 17.31   | 17.28   | 19.00   |
|           |            | 1       | 25        | 17.42   | 17.50   | 17.52   | 19.00   |
|           |            | 1       | 49        | 17.39   | 17.56   | 17.32   | 19.00   |
|           |            | 25      | 0         | 17.53   | 17.38   | 17.23   | 19.00   |
|           |            | 25      | 13        | 17.36   | 17.37   | 17.44   | 19.00   |
|           |            | 25      | 25        | 17.42   | 17.25   | 17.49   | 19.00   |
|           |            | 50      | 0         | 17.49   | 17.50   | 17.39   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 55315   | 55990   | 56665   | 19.00   |
|           |            | 1       | 38        | 17.33   | 17.55   | 17.46   | 19.00   |
|           |            | 1       | 74        | 17.43   | 17.48   | 17.49   | 19.00   |
|           |            | 1       | 74        | 17.43   | 17.56   | 17.42   | 19.00   |
|           |            | 36      | 0         | 17.44   | 17.31   | 17.47   | 19.00   |
|           |            | 36      | 18        | 17.59   | 17.36   | 17.39   | 19.00   |
|           |            | 36      | 39        | 17.49   | 17.41   | 17.42   | 19.00   |
|           | 16QAM      | 75      | 0         | 17.38   | 17.34   | 17.46   | 19.00   |
|           |            | 1       | 0         | 17.42   | 17.44   | 17.39   | 19.00   |
|           |            | 1       | 38        | 17.56   | 17.54   | 17.42   | 19.00   |
|           |            | 1       | 74        | 17.35   | 17.47   | 17.51   | 19.00   |
|           |            | 36      | 0         | 17.55   | 17.55   | 17.47   | 19.00   |
|           |            | 36      | 18        | 17.49   | 17.47   | 17.44   | 19.00   |
|           |            | 36      | 39        | 17.47   | 17.52   | 17.36   | 19.00   |
|           | 64QAM      | 75      | 0         | 17.44   | 17.50   | 17.42   | 19.00   |
|           |            | 1       | 0         | 17.50   | 17.52   | 17.43   | 19.00   |
|           |            | 1       | 38        | 17.45   | 17.37   | 17.38   | 19.00   |
|           |            | 1       | 74        | 17.43   | 17.53   | 17.34   | 19.00   |
|           |            | 36      | 0         | 17.40   | 17.48   | 17.44   | 19.00   |
|           |            | 36      | 18        | 17.48   | 17.51   | 17.44   | 19.00   |
|           |            | 36      | 39        | 17.44   | 17.37   | 17.49   | 19.00   |
|           | 256QAM     | 75      | 0         | 17.47   | 17.56   | 17.34   | 19.00   |
|           |            | 1       | 0         | 17.47   | 17.33   | 17.36   | 19.00   |
|           |            | 1       | 38        | 17.42   | 17.40   | 17.53   | 19.00   |
|           |            | 1       | 74        | 17.49   | 17.46   | 17.40   | 19.00   |
|           |            | 36      | 0         | 17.44   | 17.43   | 17.32   | 19.00   |
|           |            | 36      | 18        | 17.38   | 17.47   | 17.51   | 19.00   |
|           |            | 36      | 39        | 17.51   | 17.33   | 17.45   | 19.00   |
|           |            | 75      | 0         | 17.53   | 17.52   | 17.43   | 19.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |

|       |        |     |    | 55340 | 55990 | 56640 |       |
|-------|--------|-----|----|-------|-------|-------|-------|
| 20MHz | QPSK   | 1   | 0  | 17.71 | 17.82 | 17.73 | 19.00 |
|       |        | 1   | 50 | 17.77 | 17.72 | 17.78 | 19.00 |
|       |        | 1   | 99 | 17.78 | 17.78 | 17.69 | 19.00 |
|       |        | 50  | 0  | 17.78 | 17.80 | 17.73 | 19.00 |
|       |        | 50  | 25 | 17.79 | 17.74 | 17.73 | 19.00 |
|       |        | 50  | 50 | 17.75 | 17.73 | 17.80 | 19.00 |
|       |        | 100 | 0  | 17.78 | 17.73 | 17.73 | 19.00 |
|       | 16QAM  | 1   | 0  | 17.75 | 17.71 | 17.74 | 19.00 |
|       |        | 1   | 50 | 17.76 | 17.76 | 17.74 | 19.00 |
|       |        | 1   | 99 | 17.75 | 17.70 | 17.72 | 19.00 |
|       |        | 50  | 0  | 17.79 | 17.81 | 17.70 | 19.00 |
|       |        | 50  | 25 | 17.72 | 17.70 | 17.79 | 19.00 |
|       |        | 50  | 50 | 17.76 | 17.79 | 17.74 | 19.00 |
|       |        | 100 | 0  | 17.76 | 17.76 | 17.74 | 19.00 |
|       | 64QAM  | 1   | 0  | 17.72 | 17.76 | 17.74 | 19.00 |
|       |        | 1   | 50 | 17.72 | 17.69 | 17.75 | 19.00 |
|       |        | 1   | 99 | 17.48 | 17.48 | 17.43 | 19.00 |
|       |        | 50  | 0  | 17.45 | 17.41 | 17.45 | 19.00 |
|       |        | 50  | 25 | 17.46 | 17.50 | 17.44 | 19.00 |
|       |        | 50  | 50 | 17.50 | 17.45 | 17.46 | 19.00 |
|       |        | 100 | 0  | 17.46 | 17.50 | 17.37 | 19.00 |
|       | 256QAM | 1   | 0  | 17.47 | 17.39 | 17.46 | 19.00 |
|       |        | 1   | 50 | 17.46 | 17.44 | 17.45 | 19.00 |
|       |        | 1   | 99 | 17.46 | 17.45 | 17.43 | 19.00 |
|       |        | 50  | 0  | 17.49 | 17.47 | 17.40 | 19.00 |
|       |        | 50  | 25 | 17.46 | 17.40 | 17.50 | 19.00 |
|       |        | 50  | 50 | 17.44 | 17.39 | 17.48 | 19.00 |
|       |        | 100 | 0  | 17.44 | 17.49 | 17.44 | 19.00 |

| LTE Band 48 Hotspot/Body worn |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                               |            |         |           | 55265                | 55990   | 56715   |         |
| 5MHz                          | QPSK       | 1       | 0         | 16.96                | 17.20   | 16.85   | 18.50   |
|                               |            | 1       | 13        | 17.07                | 17.07   | 16.81   | 18.50   |
|                               |            | 1       | 24        | 17.18                | 16.85   | 16.78   | 18.50   |
|                               |            | 12      | 0         | 16.99                | 16.92   | 16.82   | 18.50   |
|                               |            | 12      | 6         | 17.13                | 16.95   | 16.95   | 18.50   |
|                               |            | 12      | 13        | 16.95                | 16.85   | 17.10   | 18.50   |
|                               |            | 25      | 0         | 17.01                | 17.00   | 17.03   | 18.50   |
|                               | 16QAM      | 1       | 0         | 17.08                | 17.02   | 16.93   | 18.50   |
|                               |            | 1       | 13        | 16.91                | 16.95   | 16.86   | 18.50   |
|                               |            | 1       | 24        | 16.91                | 16.80   | 16.73   | 18.50   |
|                               |            | 12      | 0         | 16.92                | 17.08   | 17.13   | 18.50   |
|                               |            | 12      | 6         | 17.07                | 16.91   | 16.95   | 18.50   |
|                               |            | 12      | 13        | 16.96                | 16.99   | 17.12   | 18.50   |
|                               |            | 25      | 0         | 17.02                | 17.12   | 16.78   | 18.50   |
|                               | 64QAM      | 1       | 0         | 17.10                | 17.12   | 16.83   | 18.50   |
|                               |            | 1       | 13        | 16.68                | 16.83   | 16.90   | 18.50   |
|                               |            | 1       | 24        | 16.84                | 17.11   | 17.00   | 18.50   |
|                               |            | 12      | 0         | 16.95                | 16.87   | 16.69   | 18.50   |
|                               |            | 12      | 6         | 16.93                | 16.83   | 16.84   | 18.50   |
|                               |            | 12      | 13        | 16.96                | 16.85   | 17.06   | 18.50   |
|                               |            | 25      | 0         | 16.84                | 16.98   | 16.62   | 18.50   |
|                               | 256QAM     | 1       | 0         | 16.97                | 16.97   | 17.00   | 18.50   |
|                               |            | 1       | 13        | 17.09                | 16.99   | 16.69   | 18.50   |
|                               |            | 1       | 24        | 16.80                | 16.84   | 16.98   | 18.50   |
|                               |            | 12      | 0         | 16.98                | 16.97   | 16.79   | 18.50   |
|                               |            | 12      | 6         | 17.00                | 17.09   | 17.00   | 18.50   |
|                               |            | 12      | 13        | 16.80                | 17.05   | 16.86   | 18.50   |
|                               |            | 25      | 0         | 16.98                | 17.10   | 16.97   | 18.50   |
| Bandwidth                     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                         | QPSK       | 1       | 0         | 16.89                | 17.11   | 16.95   | 18.50   |
|                               |            | 1       | 25        | 17.09                | 16.97   | 16.90   | 18.50   |
|                               |            | 1       | 49        | 17.16                | 16.94   | 16.79   | 18.50   |
|                               |            | 25      | 0         | 17.00                | 16.89   | 16.87   | 18.50   |
|                               |            | 25      | 13        | 17.16                | 17.02   | 16.98   | 18.50   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 16.86   | 16.86   | 17.07   | 18.50   |
|           |            | 50      | 0         | 17.04   | 16.97   | 16.97   | 18.50   |
|           | 16QAM      | 1       | 0         | 17.04   | 17.02   | 16.95   | 18.50   |
|           |            | 1       | 25        | 17.01   | 16.95   | 16.76   | 18.50   |
|           |            | 1       | 49        | 16.96   | 16.80   | 16.68   | 18.50   |
|           |            | 25      | 0         | 17.00   | 17.07   | 17.06   | 18.50   |
|           |            | 25      | 13        | 17.03   | 16.95   | 16.87   | 18.50   |
|           |            | 25      | 25        | 16.90   | 17.00   | 17.12   | 18.50   |
|           |            | 50      | 0         | 16.96   | 17.02   | 16.88   | 18.50   |
|           |            | 1       | 0         | 17.03   | 17.11   | 16.80   | 18.50   |
|           | 64QAM      | 1       | 25        | 16.71   | 16.79   | 16.95   | 18.50   |
|           |            | 1       | 49        | 16.93   | 17.05   | 17.03   | 18.50   |
|           |            | 25      | 0         | 16.91   | 16.81   | 16.75   | 18.50   |
|           |            | 25      | 13        | 16.88   | 16.91   | 16.88   | 18.50   |
|           |            | 25      | 25        | 16.99   | 16.91   | 16.98   | 18.50   |
|           |            | 50      | 0         | 16.94   | 16.92   | 16.71   | 18.50   |
|           | 256QAM     | 1       | 0         | 16.90   | 17.00   | 17.05   | 18.50   |
|           |            | 1       | 25        | 17.14   | 16.99   | 16.77   | 18.50   |
|           |            | 1       | 49        | 16.81   | 16.93   | 16.88   | 18.50   |
|           |            | 25      | 0         | 16.99   | 16.95   | 16.75   | 18.50   |
|           |            | 25      | 13        | 16.94   | 17.10   | 17.02   | 18.50   |
|           |            | 25      | 25        | 16.85   | 16.99   | 16.96   | 18.50   |
|           |            | 50      | 0         | 16.98   | 17.10   | 16.95   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55315   | 55990   | 56665   |         |
| 15MHz     | QPSK       | 1       | 0         | 16.82   | 17.19   | 17.00   | 18.50   |
|           |            | 1       | 38        | 17.04   | 16.89   | 16.95   | 18.50   |
|           |            | 1       | 74        | 17.07   | 16.93   | 16.84   | 18.50   |
|           |            | 36      | 0         | 16.94   | 16.95   | 16.94   | 18.50   |
|           |            | 36      | 18        | 17.07   | 16.93   | 16.97   | 18.50   |
|           |            | 36      | 39        | 16.90   | 16.91   | 17.00   | 18.50   |
|           |            | 75      | 0         | 16.99   | 16.88   | 16.91   | 18.50   |
|           | 16QAM      | 1       | 0         | 16.95   | 16.94   | 16.97   | 18.50   |
|           |            | 1       | 38        | 16.92   | 16.93   | 16.84   | 18.50   |
|           |            | 1       | 74        | 16.87   | 16.88   | 16.77   | 18.50   |
|           |            | 36      | 0         | 16.91   | 17.00   | 16.98   | 18.50   |
|           |            | 36      | 18        | 16.93   | 16.87   | 16.96   | 18.50   |
|           |            | 36      | 39        | 16.92   | 17.08   | 17.04   | 18.50   |
|           |            | 75      | 0         | 16.91   | 17.05   | 16.97   | 18.50   |
|           | 64QAM      | 1       | 0         | 17.01   | 17.03   | 16.86   | 18.50   |
|           |            | 1       | 38        | 16.80   | 16.82   | 17.05   | 18.50   |
|           |            | 1       | 74        | 17.03   | 16.96   | 16.95   | 18.50   |
|           |            | 36      | 0         | 16.93   | 16.88   | 16.82   | 18.50   |
|           |            | 36      | 18        | 16.87   | 16.97   | 16.91   | 18.50   |
|           |            | 36      | 39        | 17.02   | 16.96   | 16.98   | 18.50   |
|           |            | 75      | 0         | 17.02   | 16.99   | 16.77   | 18.50   |
|           | 256QAM     | 1       | 0         | 16.86   | 16.92   | 16.98   | 18.50   |
|           |            | 1       | 38        | 17.07   | 16.99   | 16.84   | 18.50   |
|           |            | 1       | 74        | 16.85   | 16.84   | 16.97   | 18.50   |
|           |            | 36      | 0         | 17.04   | 16.96   | 16.83   | 18.50   |
|           |            | 36      | 18        | 16.92   | 17.00   | 17.05   | 18.50   |
|           |            | 36      | 39        | 16.89   | 16.91   | 16.94   | 18.50   |
|           |            | 75      | 0         | 16.98   | 17.06   | 16.86   | 18.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 55340   | 55990   | 56640   |         |
| 20MHz     | QPSK       | 1       | 0         | 17.20   | 17.42   | 17.26   | 18.50   |
|           |            | 1       | 50        | 17.28   | 17.25   | 17.27   | 18.50   |
|           |            | 1       | 99        | 17.31   | 17.27   | 17.23   | 18.50   |
|           |            | 50      | 0         | 17.26   | 17.35   | 17.31   | 18.50   |
|           |            | 50      | 25        | 17.29   | 17.26   | 17.22   | 18.50   |
|           |            | 50      | 50        | 17.26   | 17.21   | 17.34   | 18.50   |
|           |            | 100     | 0         | 17.28   | 17.29   | 17.26   | 18.50   |
|           |            | 1       | 0         | 17.23   | 17.19   | 17.22   | 18.50   |
|           | 16QAM      | 1       | 50        | 17.24   | 17.25   | 17.24   | 18.50   |
|           |            | 1       | 99        | 17.28   | 17.18   | 17.18   | 18.50   |
|           |            | 50      | 0         | 17.27   | 17.34   | 17.20   | 18.50   |
|           |            | 50      | 25        | 16.91   | 16.86   | 17.00   | 18.50   |
|           |            | 50      | 50        | 16.96   | 16.99   | 16.95   | 18.50   |
|           |            | 100     | 0         | 16.95   | 16.95   | 16.95   | 18.50   |
|           | 64QAM      | 1       | 0         | 16.93   | 16.94   | 16.96   | 18.50   |



|  |        |     |    |       |       |       |       |
|--|--------|-----|----|-------|-------|-------|-------|
|  |        | 1   | 50 | 16.88 | 16.87 | 16.96 | 18.50 |
|  |        | 1   | 99 | 16.96 | 16.99 | 16.95 | 18.50 |
|  |        | 50  | 0  | 16.92 | 16.93 | 16.90 | 18.50 |
|  |        | 50  | 25 | 16.91 | 16.97 | 16.93 | 18.50 |
|  |        | 50  | 50 | 16.99 | 16.90 | 16.95 | 18.50 |
|  |        | 100 | 0  | 16.97 | 16.97 | 16.87 | 18.50 |
|  | 256QAM | 1   | 0  | 16.94 | 16.90 | 16.97 | 18.50 |
|  |        | 1   | 50 | 16.98 | 16.95 | 16.90 | 18.50 |
|  |        | 1   | 99 | 16.95 | 16.91 | 16.91 | 18.50 |
|  |        | 50  | 0  | 16.95 | 16.93 | 16.90 | 18.50 |
|  |        | 50  | 25 | 16.94 | 16.91 | 16.98 | 18.50 |
|  |        | 50  | 50 | 16.89 | 16.87 | 16.99 | 18.50 |
|  |        | 100 | 0  | 16.92 | 16.99 | 16.90 | 18.50 |

## 2 Conducted Power of NR

### 2.1 Conducted Power of NR (Ant0)

| N2 15kHz full power |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                  |         |           | 372000               | 376000  | 380000  |         |
|                     |                  |         |           | 1860                 | 1880    | 1900    |         |
| 20MHz               | DFT-s-OFDM QPSK  | 1       | 1         | 23.11                | 23.25   | 23.18   | 25.00   |
|                     |                  | 1       | 53        | 23.20                | 23.15   | 23.11   | 25.00   |
|                     |                  | 1       | 104       | 23.08                | 23.08   | 23.12   | 25.00   |
|                     |                  | 50      | 0         | 22.26                | 22.28   | 22.28   | 24.00   |
|                     |                  | 50      | 28        | 23.11                | 23.19   | 23.16   | 25.00   |
|                     |                  | 50      | 56        | 22.25                | 22.24   | 22.22   | 24.00   |
|                     |                  | 100     | 0         | 22.18                | 22.28   | 22.27   | 24.00   |
|                     | DFT-s-OFDM 16QAM | 1       | 1         | 22.16                | 22.29   | 22.23   | 24.00   |
| Bandwidth           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                  |         |           | 372000               | 376000  | 380000  |         |
| 20MHz               | CP-OFDM QPSK     | 1       | 1         | 21.73                | 21.75   | 21.79   | 23.50   |
| Bandwidth           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                  |         |           | 371500               | 376000  | 380500  |         |
| 15MHz               | DFT-s-OFDM QPSK  | 1       | 1         | 23.15                | 23.10   | 23.15   | 25.00   |
| Bandwidth           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                  |         |           | 371000               | 376000  | 381000  |         |
| 10MHz               | DFT-s-OFDM QPSK  | 1       | 1         | 23.19                | 23.11   | 23.10   | 25.00   |
| Bandwidth           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                     |                  |         |           | 370500               | 376000  | 381500  |         |
| 5MHz                | DFT-s-OFDM QPSK  | 1       | 1         | 23.18                | 23.10   | 23.12   | 25.00   |

| N2 15kHz Head |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth     | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|               |                  |         |           | 372000               | 376000  | 380000  |         |
|               |                  |         |           | 1860                 | 1880    | 1900    |         |
| 20MHz         | DFT-s-OFDM QPSK  | 1       | 1         | 21.42                | 21.57   | 21.48   | 23.00   |
|               |                  | 1       | 53        | 21.48                | 21.45   | 21.42   | 23.00   |
|               |                  | 1       | 104       | 21.36                | 21.36   | 21.42   | 23.00   |
|               |                  | 50      | 0         | 20.51                | 20.56   | 20.60   | 22.00   |
|               |                  | 50      | 28        | 21.43                | 21.50   | 21.43   | 23.00   |
|               |                  | 50      | 56        | 20.50                | 20.55   | 20.55   | 22.00   |
|               |                  | 100     | 0         | 20.49                | 20.58   | 20.57   | 22.00   |
|               | DFT-s-OFDM 16QAM | 1       | 1         | 20.43                | 20.58   | 20.53   | 22.00   |
| Bandwidth     | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|               |                  |         |           | 372000               | 376000  | 380000  |         |
| 20MHz         | CP-OFDM QPSK     | 1       | 1         | 19.74                | 19.71   | 19.81   | 21.50   |
| Bandwidth     | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|               |                  |         |           | 371500               | 376000  | 380500  |         |
| 15MHz         | DFT-s-OFDM QPSK  | 1       | 1         | 21.14                | 21.09   | 21.14   | 23.00   |
| Bandwidth     | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|               |                  |         |           | 371000               | 376000  | 381000  |         |
| 10MHz         | DFT-s-OFDM QPSK  | 1       | 1         | 21.15                | 21.09   | 21.17   | 23.00   |
| Bandwidth     | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|               |                  |         |           | 370500               | 376000  | 381500  |         |
| 5MHz          | DFT-s-OFDM QPSK  | 1       | 1         | 21.16                | 21.11   | 21.14   | 23.00   |

| N2 15kHz Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                  |         |           | 372000               | 376000  | 380000  |         |
|                            |                  |         |           | 1860                 | 1880    | 1900    |         |
| 20MHz                      | DFT-s-OFDM QPSK  | 1       | 1         | 22.82                | 23.01   | 22.88   | 24.50   |
|                            |                  | 1       | 53        | 22.90                | 22.92   | 22.86   | 24.50   |
|                            |                  | 1       | 104       | 22.82                | 22.84   | 22.88   | 24.50   |
|                            |                  | 50      | 0         | 22.01                | 22.01   | 22.03   | 23.50   |
|                            |                  | 50      | 28        | 22.85                | 22.93   | 22.89   | 24.50   |
|                            |                  | 50      | 56        | 21.99                | 21.99   | 21.95   | 23.50   |
|                            |                  | 100     | 0         | 21.92                | 22.04   | 22.03   | 23.50   |
|                            | DFT-s-OFDM 16QAM | 1       | 1         | 21.89                | 22.02   | 22.00   | 23.50   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 20MHz                      | CP-OFDM QPSK     | 1       | 1         | 21.21                | 21.25   | 21.27   | 23.00   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 15MHz                      | DFT-s-OFDM QPSK  | 1       | 1         | 22.62                | 22.61   | 22.65   | 24.50   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                      | DFT-s-OFDM QPSK  | 1       | 1         | 22.62                | 22.63   | 22.60   | 24.50   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                       | DFT-s-OFDM QPSK  | 1       | 1         | 22.63                | 22.58   | 22.66   | 24.50   |

| N2 15kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | 372000               | 376000  | 380000  |         |
|                                |                  |         |           | 1860                 | 1880    | 1900    |         |
| 20MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | 17.91                | 18.09   | 17.96   | 19.50   |
|                                |                  | 1       | 53        | 17.88                | 17.91   | 17.95   | 19.50   |
|                                |                  | 1       | 104       | 17.80                | 17.87   | 17.94   | 19.50   |
|                                |                  | 50      | 0         | 17.09                | 17.10   | 17.06   | 18.50   |
|                                |                  | 50      | 28        | 17.92                | 17.99   | 17.94   | 19.50   |
|                                |                  | 50      | 56        | 17.05                | 17.03   | 16.97   | 18.50   |
|                                |                  | 100     | 0         | 16.99                | 17.04   | 17.00   | 18.50   |
|                                | DFT-s-OFDM 16QAM | 1       | 1         | 16.95                | 17.04   | 17.01   | 18.50   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 20MHz                          | CP-OFDM QPSK     | 1       | 1         | 16.17                | 16.28   | 16.32   | 18.00   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 15MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | 17.64                | 17.67   | 17.64   | 19.50   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | 17.72                | 17.66   | 17.67   | 19.50   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | 17.59                | 17.65   | 17.61   | 19.50   |

| N2 15kHz Body worn/Hotspot For Simultaneous | Conducted Power(dBm) |
|---------------------------------------------|----------------------|
|---------------------------------------------|----------------------|

| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------------|---------|-----------|---------|---------|---------|---------|
|           |                  |         |           | 372000  | 376000  | 380000  |         |
|           |                  |         |           | 1860    | 1880    | 1900    |         |
| 20MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 19.83   | 20.08   | 19.92   | 21.50   |
|           |                  | 1       | 53        | 19.97   | 20.02   | 19.86   | 21.50   |
|           |                  | 1       | 104       | 19.86   | 19.81   | 19.93   | 21.50   |
|           |                  | 50      | 0         | 19.00   | 18.99   | 19.04   | 20.50   |
|           |                  | 50      | 28        | 19.88   | 20.02   | 19.89   | 21.50   |
|           |                  | 50      | 56        | 19.06   | 18.99   | 19.04   | 20.50   |
|           |                  | 100     | 0         | 18.94   | 19.09   | 19.04   | 20.50   |
|           | DFT-s-OFDM 16QAM | 1       | 1         | 18.94   | 19.10   | 19.02   | 20.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | CP-OFDM QPSK     | 1       | 1         | 18.30   | 18.34   | 18.30   | 20.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 15MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 19.69   | 19.58   | 19.70   | 21.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 19.71   | 19.60   | 19.65   | 21.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 5MHz      | DFT-s-OFDM QPSK  | 1       | 1         | 19.60   | 19.70   | 19.74   | 21.50   |

| N5_15kHz full power/Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                             | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                       |                  |         |           | /                    | 167300  | /       |         |
|                                       |                  |         |           | /                    | 836.5   | /       |         |
| 20MHz                                 | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.28   | /       | 25.00   |
|                                       |                  | 1       | 53        | /                    | 23.20   | /       | 25.00   |
|                                       |                  | 1       | 104       | /                    | 23.19   | /       | 25.00   |
|                                       |                  | 50      | 0         | /                    | 22.14   | /       | 24.00   |
|                                       |                  | 50      | 28        | /                    | 23.17   | /       | 25.00   |
|                                       |                  | 50      | 56        | /                    | 22.19   | /       | 24.00   |
|                                       |                  | 100     | 0         | /                    | 22.18   | /       | 24.00   |
|                                       | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 22.17   | /       | 24.00   |
| Bandwidth                             | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 20MHz                                 | CP-OFDM QPSK     | 1       | 1         | /                    | 21.81   | /       | 23.50   |
| Bandwidth                             | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 15MHz                                 | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.20   | /       | 25.00   |
| Bandwidth                             | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                                 | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.17   | /       | 25.00   |
| Bandwidth                             | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | 165300               | 167300  | 169300  | 25.00   |

| N5_15kHz Head |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth     | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|               |            |         |           | /                    | 167300  | /       |         |

|           |                  |         |           |         |         |         |         |
|-----------|------------------|---------|-----------|---------|---------|---------|---------|
|           |                  |         |           | /       | 836.5   | /       |         |
| 20MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 22.01   | /       | 23.50   |
|           |                  | 1       | 53        | /       | 21.96   | /       | 23.50   |
|           |                  | 1       | 104       | /       | 21.95   | /       | 23.50   |
|           |                  | 50      | 0         | /       | 20.91   | /       | 22.50   |
|           |                  | 50      | 28        | /       | 21.97   | /       | 23.50   |
|           |                  | 50      | 56        | /       | 20.95   | /       | 22.50   |
|           |                  | 100     | 0         | /       | 21.12   | /       | 22.50   |
|           | DFT-s-OFDM 16QAM | 1       | 1         | /       | 20.91   | /       | 22.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 167300  | /       |         |
| 20MHz     | CP-OFDM QPSK     | 1       | 1         | /       | 20.29   | /       | 22.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 167300  | /       |         |
| 15MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 21.69   | /       | 23.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 167300  | /       |         |
| 10MHz     | DFT-s-OFDM QPSK  | 1       | 1         |         | 21.73   |         | 23.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | 165300  | 167300  | 169300  |         |
| 5MHz      | DFT-s-OFDM QPSK  | 1       | 1         |         | 21.67   |         | 23.50   |

| N5 15kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | /                    | 167300  | /       |         |
|                                |                  |         |           | /                    | 836.5   | /       |         |
| 20MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 19.05   | /       | 20.50   |
|                                |                  | 1       | 53        | /                    | 19.03   | /       | 20.50   |
|                                |                  | 1       | 104       | /                    | 18.90   | /       | 20.50   |
|                                |                  | 50      | 0         | /                    | 17.90   | /       | 19.50   |
|                                |                  | 50      | 28        | /                    | 18.93   | /       | 20.50   |
|                                |                  | 50      | 56        | /                    | 17.93   | /       | 19.50   |
|                                |                  | 100     | 0         | /                    | 18.10   | /       | 19.50   |
|                                | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 17.98   | /       | 19.50   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | /                    | 167300  | /       |         |
| 20MHz                          | CP-OFDM QPSK     | 1       | 1         | /                    | 17.38   | /       | 19.00   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | /                    | 167300  | /       |         |
| 15MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 18.79   | /       | 20.50   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | /                    | 167300  | /       |         |
| 10MHz                          | DFT-s-OFDM QPSK  | 1       | 1         |                      | 18.65   |         | 20.50   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | 165300               | 167300  | 169300  |         |
| 5MHz                           | DFT-s-OFDM QPSK  | 1       | 1         |                      | 18.72   |         | 20.50   |

| N5 15kHz Body worn For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |            |         |           | /                    | 167300  | /       |         |
|                                     |            |         |           | /                    | 836.5   | /       |         |
| 20MHz                               | DFT-s-     | 1       | 1         | /                    | 22.58   | /       | 24.00   |

|           |                  |         |           |         |         |         |         |
|-----------|------------------|---------|-----------|---------|---------|---------|---------|
|           | OFDM QPSK        | 1       | 53        | /       | 22.54   | /       | 24.00   |
|           |                  | 1       | 104       | /       | 22.52   | /       | 24.00   |
|           |                  | 50      | 0         | /       | 21.40   | /       | 23.00   |
|           |                  | 50      | 28        | /       | 22.50   | /       | 24.00   |
|           |                  | 50      | 56        | /       | 21.47   | /       | 23.00   |
|           |                  | 100     | 0         | /       | 21.58   | /       | 23.00   |
|           | DFT-s-OFDM 16QAM | 1       | 1         | /       | 21.40   | /       | 23.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 167300  | /       |         |
| 20MHz     | CP-OFDM QPSK     | 1       | 1         | /       | 20.77   | /       | 22.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 167300  | /       |         |
| 15MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 22.15   | /       | 24.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 167300  | /       |         |
| 10MHz     | DFT-s-OFDM QPSK  | 1       | 1         |         | 22.19   |         | 24.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | 165300  | 167300  | 169300  |         |
| 5MHz      | DFT-s-OFDM QPSK  | 1       | 1         |         | 22.23   |         | 24.00   |

| N7 15kHz full power/Head/Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | /                    | 507000  | /       |         |
|                                            |                  |         |           | /                    | 2535    | /       |         |
| 40MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 22.48   | /       | 24.00   |
|                                            |                  | 1       | 108       | /                    | 22.35   | /       | 24.00   |
|                                            |                  | 1       | 214       | /                    | 22.35   | /       | 24.00   |
|                                            |                  | 108     | 0         | /                    | 21.37   | /       | 23.00   |
|                                            |                  | 108     | 54        | /                    | 22.36   | /       | 24.00   |
|                                            |                  | 108     | 108       | /                    | 21.31   | /       | 23.00   |
|                                            | DFT-s-OFDM 16QAM | 216     | 0         | /                    | 21.32   | /       | 23.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | /                    | 507000  | /       |         |
| 40MHz                                      | CP-OFDM QPSK     | 1       | 1         | /                    | 20.92   | /       | 22.50   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | /                    | 507000  | /       |         |
| 30MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 22.36   | /       | 24.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | 502000               | 507000  | 512000  |         |
| 20MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | 22.39                | 22.44   | 22.33   | 24.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | 501500               | 507000  | 512500  |         |
| 15MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | 22.36                | 22.37   | 22.31   | 24.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | 501000               | 507000  | 513000  |         |
| 10MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | 22.41                | 22.37   | 22.33   | 24.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | 500500               | 507000  | 513500  |         |
| 5MHz                                       | DFT-s-OFDM       | 1       | 1         | 22.39                | 22.34   | 22.33   | 24.00   |

|                                             | QPSK             |         |           |                      |         |         |         |
|---------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| N14_15kHz full power/Head/Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           |                      | 158600  |         |         |
|                                             |                  |         |           |                      | 793     |         |         |
| 10MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.21   | /       | 25.00   |
|                                             |                  | 1       | 26        | /                    | 23.07   | /       | 25.00   |
|                                             |                  | 1       | 50        | /                    | 23.05   | /       | 25.00   |
|                                             |                  | 25      | 0         | /                    | 22.13   | /       | 24.00   |
|                                             |                  | 25      | 14        | /                    | 23.17   | /       | 25.00   |
|                                             |                  | 25      | 27        | /                    | 22.04   | /       | 24.00   |
|                                             |                  | 50      | 0         | /                    | 22.08   | /       | 24.00   |
|                                             | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 22.09   | /       | 24.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | /                    | 507000  | /       |         |
| 10MHz                                       | CP-OFDM QPSK     | 1       | 1         | /                    | 21.60   | /       | 23.50   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | 158100               | 158600  | 159100  |         |
| 5MHz                                        | DFT-s-OFDM QPSK  | 1       | 1         | 23.10                | 23.14   | 23.13   | 25.00   |

| N14_15kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           |                      | 158600  |         |         |
|                                 |                  |         |           |                      | 793     |         |         |
| 10MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 21.23   | /       | 23.00   |
|                                 |                  | 1       | 26        | /                    | 21.10   | /       | 23.00   |
|                                 |                  | 1       | 50        | /                    | 21.09   | /       | 23.00   |
|                                 |                  | 25      | 0         | /                    | 20.15   | /       | 22.00   |
|                                 |                  | 25      | 14        | /                    | 21.21   | /       | 23.00   |
|                                 |                  | 25      | 27        | /                    | 20.10   | /       | 22.00   |
|                                 |                  | 50      | 0         | /                    | 20.08   | /       | 22.00   |
|                                 | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 20.14   | /       | 22.00   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 507000  | /       |         |
| 10MHz                           | CP-OFDM QPSK     | 1       | 1         | /                    | 19.69   | /       | 21.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | 158100               | 158600  | 159100  |         |
| 5MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | 21.10                | 21.22   | 21.19   | 23.00   |

| N30_15kHz full power |                  |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                  |         |           |                      | 462000  |         |         |
|                      |                  |         |           |                      | 2310    |         |         |
| 10MHz                | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 22.21   | /       | 24.00   |
|                      |                  | 1       | 26        | /                    | 22.09   | /       | 24.00   |
|                      |                  | 1       | 50        | /                    | 22.07   | /       | 24.00   |
|                      |                  | 25      | 0         | /                    | 21.07   | /       | 23.00   |
|                      |                  | 25      | 14        | /                    | 22.10   | /       | 24.00   |
|                      |                  | 25      | 27        | /                    | 21.11   | /       | 23.00   |
|                      |                  | 50      | 0         | /                    | 21.09   | /       | 23.00   |
|                      | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 21.08   | /       | 23.00   |
| Bandwidth            | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |                  |         |           | /                    | 462000  | /       |         |
| 10MHz                | CP-OFDM QPSK     | 1       | 1         | /                    | 20.58   | /       | 22.50   |
| Bandwidth            | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|      |                 |   |   | 461500 | 462000 | 462500 |       |
|------|-----------------|---|---|--------|--------|--------|-------|
| 5MHz | DFT-s-OFDM QPSK | 1 | 1 | 22.05  | 22.09  | 22.02  | 24.00 |

| N30_15kHz Head |                  |         |           | Conducted Power(dBm) |         |         |         |
|----------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                |                  |         |           |                      | 462000  |         |         |
|                |                  |         |           |                      | 2310    |         |         |
| 10MHz          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 19.45   | /       | 21.00   |
|                |                  | 1       | 26        | /                    | 19.27   | /       | 21.00   |
|                |                  | 1       | 50        | /                    | 19.29   | /       | 21.00   |
|                |                  | 25      | 0         | /                    | 18.33   | /       | 20.00   |
|                |                  | 25      | 14        | /                    | 19.40   | /       | 21.00   |
|                |                  | 25      | 27        | /                    | 18.35   | /       | 20.00   |
|                |                  | 50      | 0         | /                    | 18.33   | /       | 20.00   |
|                | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 18.32   | /       | 20.00   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                |                  |         |           | /                    | 462000  | /       |         |
| 10MHz          | CP-OFDM QPSK     | 1       | 1         | /                    | 17.58   | /       | 19.50   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                |                  |         |           | 461500               | 462000  | 462500  |         |
| 5MHz           | DFT-s-OFDM QPSK  | 1       | 1         | 19.06                | 19.12   | 19.03   | 21.00   |

| N30_15kHz Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                  |         |           |                      | 462000  |         |         |
|                             |                  |         |           |                      | 2310    |         |         |
| 10MHz                       | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 22.02   | /       | 23.50   |
|                             |                  | 1       | 26        | /                    | 21.89   | /       | 23.50   |
|                             |                  | 1       | 50        | /                    | 21.91   | /       | 23.50   |
|                             |                  | 25      | 0         | /                    | 20.90   | /       | 22.50   |
|                             |                  | 25      | 14        | /                    | 21.91   | /       | 23.50   |
|                             |                  | 25      | 27        | /                    | 20.98   | /       | 22.50   |
|                             |                  | 50      | 0         | /                    | 20.92   | /       | 22.50   |
|                             | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 20.90   | /       | 22.50   |
| Bandwidth                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                  |         |           | /                    | 462000  | /       |         |
| 10MHz                       | CP-OFDM QPSK     | 1       | 1         | /                    | 20.05   | /       | 22.00   |
| Bandwidth                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                  |         |           | 461500               | 462000  | 462500  |         |
| 5MHz                        | DFT-s-OFDM QPSK  | 1       | 1         | 21.53                | 21.58   | 21.52   | 23.50   |

| N30_15kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           |                      | 462000  |         |         |
|                                 |                  |         |           |                      | 2310    |         |         |
| 10MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 16.50   | /       | 18.00   |
|                                 |                  | 1       | 26        | /                    | 16.36   | /       | 18.00   |
|                                 |                  | 1       | 50        | /                    | 16.40   | /       | 18.00   |
|                                 |                  | 25      | 0         | /                    | 15.41   | /       | 17.00   |
|                                 |                  | 25      | 14        | /                    | 16.39   | /       | 18.00   |
|                                 |                  | 25      | 27        | /                    | 15.57   | /       | 17.00   |
|                                 |                  | 50      | 0         | /                    | 15.42   | /       | 17.00   |
|                                 | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 15.41   | /       | 17.00   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 462000  | /       |         |

|           |                 |         |           |                   |                   |                   |         |
|-----------|-----------------|---------|-----------|-------------------|-------------------|-------------------|---------|
| 10MHz     | CP-OFDM QPSK    | 1       | 1         | /                 | 14.64             | /                 | 16.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel<br>461500 | Channel<br>462000 | Channel<br>462500 | Tune up |
| 5MHz      | DFT-s-OFDM QPSK | 1       | 1         | 16.06             | 16.05             | 16.05             | 18.00   |

| N30 15kHz Body worn For Simultaneous |                  |         |           | Conducted Power(dBm) |                   |                   |         |
|--------------------------------------|------------------|---------|-----------|----------------------|-------------------|-------------------|---------|
| Bandwidth                            | Modulation       | RB size | RB offset | Channel              | Channel           | Channel           | Tune up |
|                                      |                  |         |           | /                    | 462000            | /                 |         |
|                                      |                  |         |           | /                    | 2310              | /                 |         |
| 10MHz                                | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 19.02             | /                 | 20.50   |
|                                      |                  | 1       | 26        | /                    | 18.98             | /                 | 20.50   |
|                                      |                  | 1       | 50        | /                    | 18.94             | /                 | 20.50   |
|                                      |                  | 25      | 0         | /                    | 17.94             | /                 | 19.50   |
|                                      |                  | 25      | 14        | /                    | 18.97             | /                 | 20.50   |
|                                      |                  | 25      | 27        | /                    | 18.08             | /                 | 19.50   |
|                                      |                  | 50      | 0         | /                    | 17.97             | /                 | 19.50   |
|                                      | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 17.90             | /                 | 19.50   |
| Bandwidth                            | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>462000 | Channel<br>/      | Tune up |
| 10MHz                                | CP-OFDM QPSK     | 1       | 1         | /                    | 17.00             | /                 | 19.00   |
| Bandwidth                            | Modulation       | RB size | RB offset | Channel<br>461500    | Channel<br>462000 | Channel<br>462500 | Tune up |
| 5MHz                                 | DFT-s-OFDM QPSK  | 1       | 1         | 18.52                | 18.65             | 18.55             | 20.50   |

| N66 15kHz full power/Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |                   |                   |         |
|----------------------------------------|------------------|---------|-----------|----------------------|-------------------|-------------------|---------|
| Bandwidth                              | Modulation       | RB size | RB offset | Channel              | Channel           | Channel           | Tune up |
|                                        |                  |         |           | /                    | 349000            | /                 |         |
|                                        |                  |         |           | /                    | 1745              | /                 |         |
| 40MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.55             | /                 | 25.00   |
|                                        |                  | 1       | 108       | /                    | 23.45             | /                 | 25.00   |
|                                        |                  | 1       | 214       | /                    | 23.41             | /                 | 25.00   |
|                                        |                  | 108     | 0         | /                    | 22.47             | /                 | 24.00   |
|                                        |                  | 108     | 54        | /                    | 23.44             | /                 | 25.00   |
|                                        |                  | 108     | 108       | /                    | 22.47             | /                 | 24.00   |
|                                        |                  | 216     | 0         | /                    | 22.46             | /                 | 24.00   |
|                                        | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 22.41             | /                 | 24.00   |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 40MHz                                  | CP-OFDM QPSK     | 1       | 1         | /                    | 21.72             | /                 | 23.50   |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 35MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.18             | /                 | 25.00   |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 30MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.21             | /                 | 25.00   |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 25MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.19             | /                 | 25.00   |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>344000    | Channel<br>349000 | Channel<br>354000 | Tune up |
| 20MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | 23.11                | 23.14             | 23.11             | 25.00   |

| Bandwidth | Modulation      | RB size | RB offset | Channel<br>343500 | Channel<br>349000 | Channel<br>354500 | Tune up |
|-----------|-----------------|---------|-----------|-------------------|-------------------|-------------------|---------|
| 15MHz     | DFT-s-OFDM QPSK | 1       | 1         | 23.14             | 23.15             | 23.15             | 25.00   |
| Bandwidth | Modulation      | RB size | RB offset | Channel<br>343000 | Channel<br>349000 | Channel<br>355000 | Tune up |
| 10MHz     | DFT-s-OFDM QPSK | 1       | 1         | 23.09             | 23.13             | 23.09             | 25.00   |
| Bandwidth | Modulation      | RB size | RB offset | Channel<br>342500 | Channel<br>349000 | Channel<br>355500 | Tune up |
| 5MHz      | DFT-s-OFDM QPSK | 1       | 1         | 23.15             | 23.10             | 23.16             | 25.00   |

| N66_15kHz Head |                  |         |           | Conducted Power(dBm) |                   |                   |         |
|----------------|------------------|---------|-----------|----------------------|-------------------|-------------------|---------|
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 40MHz          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 1745              | /                 | 23.00   |
|                |                  | 1       | 108       | /                    | 21.58             | /                 | 23.00   |
|                |                  | 1       | 214       | /                    | 21.52             | /                 | 23.00   |
|                |                  | 108     | 0         | /                    | 21.43             | /                 | 23.00   |
|                |                  | 108     | 54        | /                    | 20.56             | /                 | 22.00   |
|                |                  | 108     | 108       | /                    | 21.50             | /                 | 23.00   |
|                |                  | 108     | 108       | /                    | 20.54             | /                 | 22.00   |
|                | DFT-s-OFDM 16QAM | 216     | 0         | /                    | 20.52             | /                 | 22.00   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 40MHz          | CP-OFDM QPSK     | 1       | 1         | /                    | 19.69             | /                 | 21.50   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 35MHz          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 21.21             | /                 | 23.00   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 30MHz          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 21.16             | /                 | 23.00   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>349000 | Channel<br>/      | Tune up |
| 25MHz          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 21.17             | /                 | 23.00   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>344000    | Channel<br>349000 | Channel<br>354000 | Tune up |
| 20MHz          | DFT-s-OFDM QPSK  | 1       | 1         | 21.13                | 21.14             | 21.09             | 23.00   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>343500    | Channel<br>349000 | Channel<br>354500 | Tune up |
| 15MHz          | DFT-s-OFDM QPSK  | 1       | 1         | 21.07                | 21.10             | 21.07             | 23.00   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>343000    | Channel<br>349000 | Channel<br>355000 | Tune up |
| 10MHz          | DFT-s-OFDM QPSK  | 1       | 1         | 21.07                | 21.12             | 21.10             | 23.00   |
| Bandwidth      | Modulation       | RB size | RB offset | Channel<br>342500    | Channel<br>349000 | Channel<br>355500 | Tune up |
| 5MHz           | DFT-s-OFDM QPSK  | 1       | 1         | 21.11                | 21.16             | 21.09             | 23.00   |

| N66_15kHz Head For Simultaneous | Conducted Power(dBm) |
|---------------------------------|----------------------|
|---------------------------------|----------------------|

| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------------|---------|-----------|---------|---------|---------|---------|
|           |                  |         |           | /       | 349000  | /       |         |
|           |                  |         |           | /       | 1745    | /       |         |
| 40MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 18.57   | /       | 20.00   |
|           |                  | 1       | 108       | /       | 18.55   | /       | 20.00   |
|           |                  | 1       | 214       | /       | 18.51   | /       | 20.00   |
|           |                  | 108     | 0         | /       | 17.59   | /       | 19.00   |
|           |                  | 108     | 54        | /       | 18.55   | /       | 20.00   |
|           |                  | 108     | 108       | /       | 17.54   | /       | 19.00   |
|           |                  | 216     | 0         | /       | 17.53   | /       | 19.00   |
|           | DFT-s-OFDM 16QAM | 1       | 1         | /       | 17.47   | /       | 19.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 40MHz     | CP-OFDM QPSK     | 1       | 1         | /       | 16.72   | /       | 18.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 35MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 18.29   | /       | 20.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 30MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 18.19   | /       | 20.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 25MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 18.21   | /       | 20.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 18.15   | 18.20   | 18.12   | 20.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 15MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 18.08   | 18.20   | 18.08   | 20.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 18.09   | 18.15   | 18.08   | 20.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 5MHz      | DFT-s-OFDM QPSK  | 1       | 1         | 18.14   | 18.13   | 18.12   | 20.00   |

| N66 15kHz Body worn For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         | Tune up |
|--------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                            | Modulation       | RB size | RB offset | Channel              | Channel | Channel |         |
|                                      |                  |         |           | /                    | 349000  | /       |         |
|                                      |                  |         |           | /                    | 1745    | /       |         |
| 40MHz                                | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 20.15   | /       | 21.50   |
|                                      |                  | 1       | 108       | /                    | 20.00   | /       | 21.50   |
|                                      |                  | 1       | 214       | /                    | 20.02   | /       | 21.50   |
|                                      |                  | 108     | 0         | /                    | 19.14   | /       | 20.50   |
|                                      |                  | 108     | 54        | /                    | 20.02   | /       | 21.50   |
|                                      |                  | 108     | 108       | /                    | 19.11   | /       | 20.50   |
|                                      |                  | 216     | 0         | /                    | 19.03   | /       | 20.50   |
|                                      | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 18.97   | /       | 20.50   |
| Bandwidth                            | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 40MHz                                | CP-OFDM QPSK     | 1       | 1         | /                    | 18.20   | /       | 20.00   |

| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|-----------------|---------|-----------|---------|---------|---------|---------|
|           |                 |         |           | /       | 349000  | /       |         |
| 35MHz     | DFT-s-OFDM QPSK | 1       | 1         | /       | 19.78   | /       | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | /       | 349000  | /       |         |
| 30MHz     | DFT-s-OFDM QPSK | 1       | 1         | /       | 19.79   | /       | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | /       | 349000  | /       |         |
| 25MHz     | DFT-s-OFDM QPSK | 1       | 1         | /       | 19.71   | /       | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 344000  | 349000  | 354000  |         |
| 20MHz     | DFT-s-OFDM QPSK | 1       | 1         | 19.64   | 19.67   | 19.66   | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 343500  | 349000  | 354500  |         |
| 15MHz     | DFT-s-OFDM QPSK | 1       | 1         | 19.62   | 19.65   | 19.66   | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 343000  | 349000  | 355000  |         |
| 10MHz     | DFT-s-OFDM QPSK | 1       | 1         | 19.64   | 19.62   | 19.54   | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 342500  | 349000  | 355500  |         |
| 5MHz      | DFT-s-OFDM QPSK | 1       | 1         | 19.72   | 19.69   | 19.64   | 21.50   |

## 2.2 Conducted Power of NR (Ant1)

| N2 15kHz full power/Head/Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | 372000               | 376000  | 380000  |         |
|                                            |                  |         |           | 1860                 | 1880    | 1900    |         |
| 20MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | 23.40                | 23.52   | 23.39   | 25.00   |
|                                            |                  | 1       | 53        | 23.37                | 23.44   | 23.41   | 25.00   |
|                                            |                  | 1       | 104       | 23.37                | 23.43   | 23.38   | 25.00   |
|                                            |                  | 50      | 0         | 22.44                | 22.39   | 22.38   | 24.00   |
|                                            |                  | 50      | 28        | 23.38                | 23.42   | 23.40   | 25.00   |
|                                            |                  | 50      | 56        | 22.40                | 22.40   | 22.39   | 24.00   |
|                                            |                  | 100     | 0         | 22.41                | 22.46   | 22.44   | 24.00   |
|                                            | DFT-s-OFDM 16QAM | 1       | 1         | 22.42                | 22.43   | 22.42   | 24.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 20MHz                                      | CP-OFDM QPSK     | 1       | 1         | 21.58                | 21.62   | 21.57   | 23.50   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 15MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | 23.00                | 23.10   | 23.10   | 25.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | 23.04                | 23.06   | 23.12   | 25.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 23.01                | 23.14   | 23.13   | 25.00   |

| N2 15kHz Body worn/Hotspot For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | 372000               | 376000  | 380000  |         |
|                                             |                  |         |           | 1860                 | 1880    | 1900    |         |
| 20MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 20.49                | 20.62   | 20.38   | 22.00   |
|                                             |                  | 1       | 53        | 20.35                | 20.40   | 20.49   | 22.00   |
|                                             |                  | 1       | 104       | 20.32                | 20.45   | 20.41   | 22.00   |
|                                             |                  | 50      | 0         | 19.49                | 19.36   | 19.47   | 21.00   |
|                                             |                  | 50      | 28        | 20.40                | 20.46   | 20.46   | 22.00   |
|                                             |                  | 50      | 56        | 19.43                | 19.44   | 19.47   | 21.00   |
|                                             |                  | 100     | 0         | 19.39                | 19.46   | 19.51   | 21.00   |
|                                             | DFT-s-OFDM 16QAM | 1       | 1         | 19.39                | 19.44   | 19.39   | 21.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 20MHz                                       | CP-OFDM QPSK     | 1       | 1         | 18.61                | 18.72   | 18.56   | 20.50   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 15MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 20.01                | 20.12   | 20.19   | 22.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 20.09                | 20.13   | 20.06   | 22.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                        | DFT-s-OFDM QPSK  | 1       | 1         | 20.05                | 20.10   | 20.19   | 22.00   |

| N5_15kHz full power/Head/Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | /                    | 167300  | /       |         |
|                                            |                  |         |           | /                    | 836.5   | /       |         |
| 20MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.23   | /       | 25.00   |
|                                            |                  | 1       | 53        | /                    | 23.14   | /       | 25.00   |
|                                            |                  | 1       | 104       | /                    | 23.15   | /       | 25.00   |
|                                            |                  | 50      | 0         | /                    | 22.19   | /       | 24.00   |
|                                            |                  | 50      | 28        | /                    | 23.14   | /       | 25.00   |
|                                            |                  | 50      | 56        | /                    | 22.16   | /       | 24.00   |
|                                            |                  | 100     | 0         | /                    | 22.21   | /       | 24.00   |
|                                            | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 22.16   | /       | 24.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | /                    | 167300  | /       |         |
| 20MHz                                      | CP-OFDM QPSK     | 1       | 1         | /                    | 21.58   | /       | 23.50   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | /                    | 167300  | /       |         |
| 15MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.02   | /       | 25.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | /                    | 167300  | /       |         |
| 10MHz                                      | DFT-s-OFDM QPSK  | 1       | 1         | 23.04                | 23.11   | 23.10   | 25.00   |
| Bandwidth                                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                            |                  |         |           | 165300               | 167300  | 169300  |         |
| 5MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 23.02                | 23.05   | 23.01   | 25.00   |

| N5_15kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | /                    | 167300  | /       |         |
|                                |                  |         |           | /                    | 836.5   | /       |         |
| 20MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 20.30   | /       | 22.00   |
|                                |                  | 1       | 53        | /                    | 20.16   | /       | 22.00   |
|                                |                  | 1       | 104       | /                    | 20.13   | /       | 22.00   |
|                                |                  | 50      | 0         | /                    | 19.20   | /       | 21.00   |
|                                |                  | 50      | 28        | /                    | 20.10   | /       | 22.00   |
|                                |                  | 50      | 56        | /                    | 19.12   | /       | 21.00   |
|                                |                  | 100     | 0         | /                    | 19.24   | /       | 21.00   |
|                                | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 19.20   | /       | 21.00   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | /                    | 167300  | /       |         |
| 20MHz                          | CP-OFDM QPSK     | 1       | 1         | /                    | 18.63   | /       | 20.50   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | /                    | 167300  | /       |         |
| 15MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 20.02   | /       | 22.00   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | /                    | 167300  | /       |         |
| 10MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | 20.02                | 20.17   | 20.13   | 22.00   |
| Bandwidth                      | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                |                  |         |           | 165300               | 167300  | 169300  |         |
| 5MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | 20.09                | 20.20   | 20.07   | 22.00   |

| N5_15kHz Body worn For Simultaneous |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                           | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|           |                  |         |           |         |         |         |         |
|-----------|------------------|---------|-----------|---------|---------|---------|---------|
|           |                  |         |           | /       | 167300  | /       |         |
|           |                  |         |           | /       | 836.5   | /       |         |
| 20MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 20.81   | /       | 22.50   |
|           |                  | 1       | 53        | /       | 20.70   | /       | 22.50   |
|           |                  | 1       | 104       | /       | 20.75   | /       | 22.50   |
|           |                  | 50      | 0         | /       | 19.68   | /       | 21.50   |
|           |                  | 50      | 28        | /       | 20.71   | /       | 22.50   |
|           |                  | 50      | 56        | /       | 19.75   | /       | 21.50   |
|           | DFT-s-OFDM 16QAM | 100     | 0         | /       | 19.76   | /       | 21.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 20MHz     | CP-OFDM QPSK     | 1       | 1         | /       | 167300  | /       | 21.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 15MHz     | DFT-s-OFDM QPSK  | 1       | 1         | /       | 167300  | /       | 22.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 10MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 20.54   | 20.66   | 20.66   | 22.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 5MHz      | DFT-s-OFDM QPSK  | 1       | 1         | 165300  | 167300  | 169300  | 22.50   |

| N7_15kHz full power/Head |                  |         |           | Conducted Power(dBm) |         |         |         |
|--------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                          |                  |         |           | /                    | 507000  | /       |         |
|                          |                  |         |           | /                    | 2535    | /       |         |
| 40MHz                    | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 22.84   | /       | 24.00   |
|                          |                  | 1       | 108       | /                    | 22.72   | /       | 24.00   |
|                          |                  | 1       | 214       | /                    | 22.75   | /       | 24.00   |
|                          |                  | 108     | 0         | /                    | 21.69   | /       | 23.00   |
|                          |                  | 108     | 54        | /                    | 22.74   | /       | 24.00   |
|                          |                  | 108     | 108       | /                    | 21.76   | /       | 23.00   |
|                          |                  | 216     | 0         | /                    | 21.72   | /       | 23.00   |
|                          | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 21.71   | /       | 23.00   |
| Bandwidth                | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 40MHz                    | CP-OFDM QPSK     | 1       | 1         | /                    | 507000  | /       | 22.50   |
| Bandwidth                | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 30MHz                    | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 507000  | /       | 24.00   |
| Bandwidth                | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 20MHz                    | DFT-s-OFDM QPSK  | 1       | 1         | 502000               | 507000  | 512000  | 24.00   |
| Bandwidth                | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 15MHz                    | DFT-s-OFDM QPSK  | 1       | 1         | 501500               | 507000  | 512500  | 24.00   |
| Bandwidth                | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                    | DFT-s-OFDM QPSK  | 1       | 1         | 501000               | 507000  | 513000  | 24.00   |
| Bandwidth                | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|      |                 |   |   |        |        |        |       |
|------|-----------------|---|---|--------|--------|--------|-------|
|      |                 |   |   | 500500 | 507000 | 513500 |       |
| 5MHz | DFT-s-OFDM QPSK | 1 | 1 | 22.70  | 22.67  | 22.70  | 24.00 |

| N7 15kHz Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                  |         |           | /                    | 507000  | /       |         |
|                            |                  |         |           | /                    | 2535    | /       |         |
| 40MHz                      | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 21.35   | /       | 22.50   |
|                            |                  | 1       | 108       | /                    | 21.21   | /       | 22.50   |
|                            |                  | 1       | 214       | /                    | 21.24   | /       | 22.50   |
|                            |                  | 108     | 0         | /                    | 20.16   | /       | 21.50   |
|                            |                  | 108     | 54        | /                    | 21.21   | /       | 22.50   |
|                            |                  | 108     | 108       | /                    | 20.22   | /       | 21.50   |
|                            |                  | 216     | 0         | /                    | 20.21   | /       | 21.50   |
|                            | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 20.17   | /       | 21.50   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                  |         |           | /                    | 507000  | /       |         |
| 40MHz                      | CP-OFDM QPSK     | 1       | 1         | /                    | 19.77   | /       | 21.00   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                  |         |           | /                    | 507000  | /       |         |
| 30MHz                      | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 21.12   | /       | 22.50   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                  |         |           | 502000               | 507000  | 512000  |         |
| 20MHz                      | DFT-s-OFDM QPSK  | 1       | 1         | 21.24                | 21.17   | 21.17   | 22.50   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                  |         |           | 501500               | 507000  | 512500  |         |
| 15MHz                      | DFT-s-OFDM QPSK  | 1       | 1         | 21.21                | 21.14   | 21.21   | 22.50   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                  |         |           | 501000               | 507000  | 513000  |         |
| 10MHz                      | DFT-s-OFDM QPSK  | 1       | 1         | 21.26                | 21.20   | 21.16   | 22.50   |
| Bandwidth                  | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                            |                  |         |           | 500500               | 507000  | 513500  |         |
| 5MHz                       | DFT-s-OFDM QPSK  | 1       | 1         | 21.23                | 21.17   | 21.17   | 22.50   |

| N14 15kHz full power/Head/Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           |                      | 158600  |         |         |
|                                             |                  |         |           |                      | 793     |         |         |
| 10MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.53   | /       | 25.00   |
|                                             |                  | 1       | 26        | /                    | 23.23   | /       | 25.00   |
|                                             |                  | 1       | 50        | /                    | 23.22   | /       | 25.00   |
|                                             |                  | 25      | 0         | /                    | 22.20   | /       | 24.00   |
|                                             |                  | 25      | 14        | /                    | 23.48   | /       | 25.00   |
|                                             |                  | 25      | 27        | /                    | 22.19   | /       | 24.00   |
|                                             |                  | 50      | 0         | /                    | 22.53   | /       | 24.00   |
|                                             | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 22.25   | /       | 24.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | /                    | 507000  | /       |         |
| 10MHz                                       | CP-OFDM QPSK     | 1       | 1         | /                    | 21.67   | /       | 23.50   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | 158100               | 158600  | 159100  |         |
| 5MHz                                        | DFT-s-           | 1       | 1         | 23.02                | 23.20   | 23.15   | 25.00   |

|  |           |  |  |  |  |  |  |
|--|-----------|--|--|--|--|--|--|
|  | OFDM QPSK |  |  |  |  |  |  |
|--|-----------|--|--|--|--|--|--|

| N14 15kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         | Tune up |
|---------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel |         |
|                                 |                  |         |           |                      | 158600  |         |         |
|                                 |                  |         |           |                      | 793     |         |         |
| 10MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 20.10   | /       | 21.50   |
|                                 |                  | 1       | 26        | /                    | 19.75   | /       | 21.50   |
|                                 |                  | 1       | 50        | /                    | 19.76   | /       | 21.50   |
|                                 |                  | 25      | 0         | /                    | 18.78   | /       | 20.50   |
|                                 |                  | 25      | 14        | /                    | 20.05   | /       | 21.50   |
|                                 |                  | 25      | 27        | /                    | 18.69   | /       | 20.50   |
|                                 |                  | 50      | 0         | /                    | 19.07   | /       | 20.50   |
|                                 | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 18.72   | /       | 20.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                           | CP-OFDM QPSK     | 1       | 1         | /                    | 18.18   | /       | 20.00   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | 19.55                | 19.71   | 19.68   | 21.50   |

| N14 15kHz Body worn For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         | Tune up |
|--------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                            | Modulation       | RB size | RB offset | Channel              | Channel | Channel |         |
|                                      |                  |         |           |                      | 158600  |         |         |
|                                      |                  |         |           |                      | 793     |         |         |
| 10MHz                                | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.09   | /       | 24.50   |
|                                      |                  | 1       | 26        | /                    | 22.76   | /       | 24.50   |
|                                      |                  | 1       | 50        | /                    | 22.77   | /       | 24.50   |
|                                      |                  | 25      | 0         | /                    | 21.70   | /       | 23.50   |
|                                      |                  | 25      | 14        | /                    | 22.99   | /       | 24.50   |
|                                      |                  | 25      | 27        | /                    | 21.69   | /       | 23.50   |
|                                      |                  | 50      | 0         | /                    | 22.12   | /       | 23.50   |
|                                      | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 21.72   | /       | 23.50   |
| Bandwidth                            | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                                | CP-OFDM QPSK     | 1       | 1         | /                    | 21.24   | /       | 23.00   |
| Bandwidth                            | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 5MHz                                 | DFT-s-OFDM QPSK  | 1       | 1         | 22.58                | 22.68   | 22.69   | 24.50   |

| N30 15kHz full power/Head |                  |         |           | Conducted Power(dBm) |         |         | Tune up |
|---------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                 | Modulation       | RB size | RB offset | Channel              | Channel | Channel |         |
|                           |                  |         |           |                      | 462000  |         |         |
|                           |                  |         |           |                      | 2310    |         |         |
| 10MHz                     | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 22.64   | /       | 24.00   |
|                           |                  | 1       | 26        | /                    | 22.53   | /       | 24.00   |
|                           |                  | 1       | 50        | /                    | 22.54   | /       | 24.00   |
|                           |                  | 25      | 0         | /                    | 21.50   | /       | 23.00   |
|                           |                  | 25      | 14        | /                    | 22.57   | /       | 24.00   |
|                           |                  | 25      | 27        | /                    | 21.51   | /       | 23.00   |
|                           |                  | 50      | 0         | /                    | 21.52   | /       | 23.00   |
|                           | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 21.51   | /       | 23.00   |
| Bandwidth                 | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 10MHz                     | CP-OFDM QPSK     | 1       | 1         | /                    | 21.02   | /       | 22.50   |

| Bandwidth | Modulation      | RB size | RB offset | Channel<br>461500 | Channel<br>462000 | Channel<br>462500 | Tune up |
|-----------|-----------------|---------|-----------|-------------------|-------------------|-------------------|---------|
| 5MHz      | DFT-s-OFDM QPSK | 1       | 1         | 22.51             | 22.54             | 22.57             | 24.00   |

| N30 15kHz Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                  |         |           |                      | 462000  |         |         |
|                             |                  |         |           |                      | 2310    |         |         |
| 10MHz                       | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 21.61   | /       | 23.00   |
|                             |                  | 1       | 26        | /                    | 21.53   | /       | 23.00   |
|                             |                  | 1       | 50        | /                    | 21.52   | /       | 23.00   |
|                             |                  | 25      | 0         | /                    | 20.51   | /       | 22.00   |
|                             |                  | 25      | 14        | /                    | 21.60   | /       | 23.00   |
|                             |                  | 25      | 27        | /                    | 20.48   | /       | 22.00   |
|                             |                  | 50      | 0         | /                    | 20.48   | /       | 22.00   |
|                             | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 20.53   | /       | 22.00   |
| Bandwidth                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                  |         |           | /                    | 462000  | /       |         |
| 10MHz                       | CP-OFDM QPSK     | 1       | 1         | /                    | 19.99   | /       | 21.50   |
| Bandwidth                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                             |                  |         |           | 461500               | 462000  | 462500  |         |
| 5MHz                        | DFT-s-OFDM QPSK  | 1       | 1         | 21.52                | 21.55   | 21.59   | 23.00   |

| N30 15kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           |                      | 462000  |         |         |
|                                 |                  |         |           |                      | 2310    |         |         |
| 10MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 21.18   | /       | 22.50   |
|                                 |                  | 1       | 26        | /                    | 21.09   | /       | 22.50   |
|                                 |                  | 1       | 50        | /                    | 21.08   | /       | 22.50   |
|                                 |                  | 25      | 0         | /                    | 20.08   | /       | 21.50   |
|                                 |                  | 25      | 14        | /                    | 21.14   | /       | 22.50   |
|                                 |                  | 25      | 27        | /                    | 20.04   | /       | 21.50   |
|                                 |                  | 50      | 0         | /                    | 20.05   | /       | 21.50   |
|                                 | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 20.01   | /       | 21.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 462000  | /       |         |
| 10MHz                           | CP-OFDM QPSK     | 1       | 1         | /                    | 19.47   | /       | 21.00   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | 461500               | 462000  | 462500  |         |
| 5MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | 21.04                | 21.10   | 21.13   | 22.50   |

| N30 15kHz Body worn/Hotspot For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                    | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                              |                  |         |           |                      | 462000  |         |         |
|                                              |                  |         |           |                      | 2310    |         |         |
| 10MHz                                        | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 18.20   | /       | 19.50   |
|                                              |                  | 1       | 26        | /                    | 18.09   | /       | 19.50   |
|                                              |                  | 1       | 50        | /                    | 18.01   | /       | 19.50   |
|                                              |                  | 25      | 0         | /                    | 17.10   | /       | 18.50   |
|                                              |                  | 25      | 14        | /                    | 18.11   | /       | 19.50   |
|                                              |                  | 25      | 27        | /                    | 17.03   | /       | 18.50   |
|                                              |                  | 50      | 0         | /                    | 16.95   | /       | 18.50   |
|                                              | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 17.11   | /       | 18.50   |
| Bandwidth                                    | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|           |                 |         |           | /       | 462000  | /       |         |
|-----------|-----------------|---------|-----------|---------|---------|---------|---------|
| 10MHz     | CP-OFDM QPSK    | 1       | 1         | /       | 16.50   | /       | 18.00   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 461500  | 462000  | 462500  |         |
| 5MHz      | DFT-s-OFDM QPSK | 1       | 1         | 18.09   | 18.05   | 18.16   | 19.50   |

| N66_15kHz full power/Head/Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | /                    | 349000  | /       |         |
|                                             |                  |         |           | /                    | 1745    | /       |         |
| 40MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 23.47   | /       | 25.00   |
|                                             |                  | 1       | 108       | /                    | 23.11   | /       | 25.00   |
|                                             |                  | 1       | 214       | /                    | 23.09   | /       | 25.00   |
|                                             |                  | 108     | 0         | /                    | 22.11   | /       | 24.00   |
|                                             |                  | 108     | 54        | /                    | 23.31   | /       | 25.00   |
|                                             |                  | 108     | 108       | /                    | 22.13   | /       | 24.00   |
|                                             |                  | 216     | 0         | /                    | 22.10   | /       | 24.00   |
|                                             | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 22.08   | /       | 24.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | /                    | 349000  | /       |         |
| 40MHz                                       | CP-OFDM QPSK     | 1       | 1         | /                    | 21.61   | /       | 23.50   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | /                    | 349000  | /       |         |
| 35MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 23.09                | 23.11   | 23.09   | 25.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | /                    | 349000  | /       |         |
| 30MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 23.09                | 23.11   | 23.12   | 25.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | /                    | 349000  | /       |         |
| 25MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 23.09                | 23.11   | 23.13   | 25.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | 344000               | 349000  | 354000  |         |
| 20MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 23.13                | 23.14   | 23.17   | 25.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | 343500               | 349000  | 354500  |         |
| 15MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 23.07                | 23.08   | 23.11   | 25.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | 343000               | 349000  | 355000  |         |
| 10MHz                                       | DFT-s-OFDM QPSK  | 1       | 1         | 23.13                | 23.11   | 23.13   | 25.00   |
| Bandwidth                                   | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                             |                  |         |           | 342500               | 349000  | 355500  |         |
| 5MHz                                        | DFT-s-OFDM QPSK  | 1       | 1         | 23.09                | 23.13   | 23.12   | 25.00   |

| N66_15kHz Head For Simultaneous |                 |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|-----------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation      | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                 |         |           | /                    | 349000  | /       |         |
|                                 |                 |         |           | /                    | 1745    | /       |         |
| 40MHz                           | DFT-s-OFDM QPSK | 1       | 1         | /                    | 22.43   | /       | 24.00   |
|                                 |                 | 1       | 108       | /                    | 22.14   | /       | 24.00   |
|                                 |                 | 1       | 214       | /                    | 22.09   | /       | 24.00   |
|                                 |                 | 108     | 0         | /                    | 21.21   | /       | 23.00   |

|           |                  |         |           |         |         |         |         |
|-----------|------------------|---------|-----------|---------|---------|---------|---------|
|           |                  | 108     | 54        | /       | 22.37   | /       | 24.00   |
|           |                  | 108     | 108       | /       | 21.12   | /       | 23.00   |
|           |                  | 216     | 0         | /       | 21.11   | /       | 23.00   |
|           | DFT-s-OFDM 16QAM | 1       | 1         | /       | 21.04   | /       | 23.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 349000  | /       |         |
| 40MHz     | CP-OFDM QPSK     | 1       | 1         | /       | 20.69   | /       | 22.50   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 349000  | /       |         |
| 35MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 22.06   | 22.18   | 22.08   | 24.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 349000  | /       |         |
| 30MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 22.07   | 22.11   | 22.06   | 24.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | /       | 349000  | /       |         |
| 25MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 22.09   | 22.11   | 22.11   | 24.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | 344000  | 349000  | 354000  |         |
| 20MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 22.12   | 22.14   | 22.16   | 24.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | 343500  | 349000  | 354500  |         |
| 15MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 22.15   | 22.19   | 22.12   | 24.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | 343000  | 349000  | 355000  |         |
| 10MHz     | DFT-s-OFDM QPSK  | 1       | 1         | 22.15   | 22.12   | 22.18   | 24.00   |
| Bandwidth | Modulation       | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                  |         |           | 342500  | 349000  | 355500  |         |
| 5MHz      | DFT-s-OFDM QPSK  | 1       | 1         | 22.11   | 22.06   | 22.08   | 24.00   |

| N66 15kHz Body worn/Hotspot For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                                    | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                              |                  |         |           | /                    | 349000  | /       |         |
|                                              |                  |         |           | /                    | 1745    | /       |         |
| 40MHz                                        | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 19.97   | /       | 21.50   |
|                                              |                  | 1       | 108       | /                    | 19.62   | /       | 21.50   |
|                                              |                  | 1       | 214       | /                    | 19.59   | /       | 21.50   |
|                                              |                  | 108     | 0         | /                    | 18.57   | /       | 20.50   |
|                                              |                  | 108     | 54        | /                    | 19.89   | /       | 21.50   |
|                                              |                  | 108     | 108       | /                    | 18.69   | /       | 20.50   |
|                                              |                  | 216     | 0         | /                    | 18.67   | /       | 20.50   |
|                                              | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 18.64   | /       | 20.50   |
| Bandwidth                                    | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                              |                  |         |           | /                    | 349000  | /       |         |
| 40MHz                                        | CP-OFDM QPSK     | 1       | 1         | /                    | 18.21   | /       | 20.00   |
| Bandwidth                                    | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                              |                  |         |           | /                    | 349000  | /       |         |
| 35MHz                                        | DFT-s-OFDM QPSK  | 1       | 1         | 19.67                | 19.69   | 19.66   | 21.50   |
| Bandwidth                                    | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                              |                  |         |           | /                    | 349000  | /       |         |

|           |                 |         |           |         |         |         |         |
|-----------|-----------------|---------|-----------|---------|---------|---------|---------|
| 30MHz     | DFT-s-OFDM QPSK | 1       | 1         | 19.67   | 19.63   | 19.66   | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | /       | 349000  | /       |         |
| 25MHz     | DFT-s-OFDM QPSK | 1       | 1         | 19.66   | 19.58   | 19.60   | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 344000  | 349000  | 354000  |         |
| 20MHz     | DFT-s-OFDM QPSK | 1       | 1         | 19.64   | 19.64   | 19.65   | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 343500  | 349000  | 354500  |         |
| 15MHz     | DFT-s-OFDM QPSK | 1       | 1         | 19.64   | 19.61   | 19.59   | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 343000  | 349000  | 355000  |         |
| 10MHz     | DFT-s-OFDM QPSK | 1       | 1         | 19.63   | 19.57   | 19.64   | 21.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 342500  | 349000  | 355500  |         |
| 5MHz      | DFT-s-OFDM QPSK | 1       | 1         | 19.55   | 19.61   | 19.64   | 21.50   |

## 2.3 Conducted Power of NR (Ant2)

| N77 PC3 30kHz Head |                  |         |           | Conducted Power(dBm) |         |         |         |
|--------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 100MHz             | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 633334  | /       |         |
|                    |                  | 1       | 137       | /                    | 3500.01 | /       |         |
|                    |                  | 1       | 271       | /                    | 12.95   | /       |         |
|                    |                  | 135     | 0         | /                    | 12.88   | /       | 14.00   |
|                    |                  | 135     | 69        | /                    | 12.88   | /       | 14.00   |
|                    |                  | 135     | 138       | /                    | 11.92   | /       | 13.00   |
|                    |                  | 270     | 0         | /                    | 12.86   | /       | 14.00   |
|                    |                  | 270     | 0         | /                    | 11.86   | /       | 13.00   |
|                    | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 11.86   | /       | 13.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 100MHz             | CP-OFDM QPSK     | 1       | 1         | /                    | 633334  | /       | 12.50   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 90MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 633334  | /       | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 80MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 633334  | /       | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 70MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 633334  | /       | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 60MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 633334  | /       | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 50MHz              | DFT-s-OFDM QPSK  | 1       | 1         | 12.85                | 12.84   | 12.86   | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 40MHz              | DFT-s-OFDM QPSK  | 1       | 1         | 12.90                | 12.87   | 12.84   | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 30MHz              | DFT-s-OFDM QPSK  | 1       | 1         | 12.83                | 12.90   | 12.90   | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 25MHz              | DFT-s-OFDM QPSK  | 1       | 1         | 12.85                | 12.85   | 12.88   | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 20MHz              | DFT-s-OFDM QPSK  | 1       | 1         | 12.87                | 12.90   | 12.86   | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 15MHz              | DFT-s-OFDM QPSK  | 1       | 1         | 12.89                | 12.85   | 12.85   | 14.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|       |                 |   |   |        |        |        |       |
|-------|-----------------|---|---|--------|--------|--------|-------|
|       |                 |   |   | 630334 | 633334 | 636334 |       |
| 10MHz | DFT-s-OFDM QPSK | 1 | 1 | 12.84  | 12.87  | 12.85  | 14.00 |

| N77 PC3 30kHz Body worn/Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 633334  | /       |         |
|                                 |                  |         |           | /                    | 3500.01 | /       |         |
| 100MHz                          | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 11.67   | /       | 12.50   |
|                                 |                  | 1       | 137       | /                    | 11.55   | /       | 12.50   |
|                                 |                  | 1       | 271       | /                    | 11.55   | /       | 12.50   |
|                                 |                  | 135     | 0         | /                    | 10.60   | /       | 11.50   |
|                                 |                  | 135     | 69        | /                    | 11.56   | /       | 12.50   |
|                                 |                  | 135     | 138       | /                    | 10.57   | /       | 11.50   |
|                                 |                  | 270     | 0         | /                    | 10.60   | /       | 11.50   |
|                                 | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 10.54   | /       | 11.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 100MHz                          | CP-OFDM QPSK     | 1       | 1         | /                    | 633334  | /       | 11.00   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 633334  | /       |         |
| 90MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 11.62   | /       | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 633334  | /       |         |
| 80MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 11.55   | /       | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 633334  | /       |         |
| 70MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 11.55   | /       | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 633334  | /       |         |
| 60MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 11.54   | /       | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 633334  | /       |         |
| 50MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | 11.57                | 11.61   | 11.59   | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | /                    | 633334  | /       |         |
| 40MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | 11.55                | 11.54   | 11.59   | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | 631001               | 633334  | 635667  |         |
| 30MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | 11.56                | 11.61   | 11.54   | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | 630834               | 633334  | 635833  |         |
| 25MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | 11.60                | 11.59   | 11.59   | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | 630668               | 633334  | 636000  |         |
| 20MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | 11.61                | 11.56   | 11.55   | 12.50   |
| Bandwidth                       | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                 |                  |         |           | 630501               | 633334  | 636167  |         |
| 15MHz                           | DFT-s-           | 1       | 1         | 11.60                | 11.58   | 11.56   | 12.50   |

|           |                 |         |           |                   |                   |                   |         |
|-----------|-----------------|---------|-----------|-------------------|-------------------|-------------------|---------|
|           | OFDM QPSK       |         |           |                   |                   |                   |         |
| Bandwidth | Modulation      | RB size | RB offset | Channel<br>630334 | Channel<br>633334 | Channel<br>636334 | Tune up |
| 10MHz     | DFT-s-OFDM QPSK | 1       | 1         | 11.57             | 11.58             | 11.61             | 12.50   |

| N77 PC3 30kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
|                                     |                  |         |           | /                    | 3500.01 | /       |         |
| 100MHz                              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 10.24   | /       | 11.00   |
|                                     |                  | 1       | 137       | /                    | 10.06   | /       | 11.00   |
|                                     |                  | 1       | 271       | /                    | 10.03   | /       | 11.00   |
|                                     |                  | 135     | 0         | /                    | 9.09    | /       | 10.00   |
|                                     |                  | 135     | 69        | /                    | 10.14   | /       | 11.00   |
|                                     |                  | 135     | 138       | /                    | 9.11    | /       | 10.00   |
|                                     |                  | 270     | 0         | /                    | 9.17    | /       | 10.00   |
|                                     | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 9.11    | /       | 10.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 100MHz                              | CP-OFDM QPSK     | 1       | 1         | /                    | 8.65    | /       | 9.50    |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 90MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 10.11   | /       | 11.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 80MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 10.11   | /       | 11.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 70MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 10.13   | /       | 11.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 60MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 10.09   | /       | 11.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 50MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | 10.05                | 10.08   | 10.17   | 11.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 40MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | 10.11                | 10.09   | 10.14   | 11.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | 631001               | 633334  | 635667  |         |
| 30MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | 10.12                | 10.16   | 10.11   | 11.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | 630834               | 633334  | 635833  |         |
| 25MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | 10.14                | 10.19   | 10.16   | 11.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | 630668               | 633334  | 636000  |         |
| 20MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | 10.04                | 10.14   | 10.14   | 11.00   |

| Bandwidth | Modulation      | RB size | RB offset | Channel<br>630501 | Channel<br>633334 | Channel<br>636167 | Tune up |
|-----------|-----------------|---------|-----------|-------------------|-------------------|-------------------|---------|
| 15MHz     | DFT-s-OFDM QPSK | 1       | 1         | 10.07             | 10.17             | 10.11             | 11.00   |
| Bandwidth | Modulation      | RB size | RB offset | Channel<br>630334 | Channel<br>633334 | Channel<br>636334 | Tune up |
| 10MHz     | DFT-s-OFDM QPSK | 1       | 1         | 10.10             | 10.07             | 10.12             | 11.00   |

| N77 PC3 30kHz Hotspot For Simultaneous |                  |         |           | Conducted Power(dBm) |                   |                   |         |
|----------------------------------------|------------------|---------|-----------|----------------------|-------------------|-------------------|---------|
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>633334 | Channel<br>/      | Tune up |
| 100MHz                                 | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 3500.01           | /                 | 9.50    |
|                                        |                  | 1       | 137       | /                    | 8.71              | /                 | 9.50    |
|                                        |                  | 1       | 271       | /                    | 8.63              | /                 | 9.50    |
|                                        |                  | 135     | 0         | /                    | 8.54              | /                 | 9.50    |
|                                        |                  | 135     | 69        | /                    | 7.69              | /                 | 8.50    |
|                                        |                  | 135     | 138       | /                    | 8.59              | /                 | 9.50    |
|                                        |                  | 270     | 0         | /                    | 7.58              | /                 | 8.50    |
|                                        | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 7.63              | /                 | 8.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>633334 | Channel<br>/      | Tune up |
| 100MHz                                 | CP-OFDM QPSK     | 1       | 1         | /                    | 7.20              | /                 | 8.00    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>633334 | Channel<br>/      | Tune up |
| 90MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 8.62              | /                 | 9.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>633334 | Channel<br>/      | Tune up |
| 80MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 8.72              | /                 | 9.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>633334 | Channel<br>/      | Tune up |
| 70MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 8.60              | /                 | 9.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>633334 | Channel<br>/      | Tune up |
| 60MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 8.63              | /                 | 9.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>633334 | Channel<br>/      | Tune up |
| 50MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | 8.60                 | 8.67              | 8.64              | 9.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>/         | Channel<br>633334 | Channel<br>/      | Tune up |
| 40MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | 8.55                 | 8.69              | 8.67              | 9.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>631001    | Channel<br>633334 | Channel<br>635667 | Tune up |
| 30MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | 8.57                 | 8.66              | 8.65              | 9.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>630834    | Channel<br>633334 | Channel<br>635833 | Tune up |
| 25MHz                                  | DFT-s-OFDM QPSK  | 1       | 1         | 8.54                 | 8.70              | 8.66              | 9.50    |
| Bandwidth                              | Modulation       | RB size | RB offset | Channel<br>630668    | Channel<br>633334 | Channel<br>636000 | Tune up |

|           |                 |         |           |         |         |         |         |
|-----------|-----------------|---------|-----------|---------|---------|---------|---------|
| 20MHz     | DFT-s-OFDM QPSK | 1       | 1         | 8.56    | 8.69    | 8.59    | 9.50    |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 630501  | 633334  | 636167  |         |
| 15MHz     | DFT-s-OFDM QPSK | 1       | 1         | 8.56    | 8.67    | 8.56    | 9.50    |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 630334  | 633334  | 636334  |         |
| 10MHz     | DFT-s-OFDM QPSK | 1       | 1         | 8.54    | 8.69    | 8.58    | 9.50    |

| N77 PC2 30kHz Head |                  |         |           | Conducted Power(dBm) |         |         | Tune up |
|--------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel |         |
|                    |                  |         |           | /                    | 633334  | /       |         |
|                    |                  |         |           | /                    | 3500.01 | /       |         |
| 100MHz             | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 16.21   | /       | 17.00   |
|                    |                  | 1       | 137       | /                    | 16.00   | /       | 17.00   |
|                    |                  | 1       | 271       | /                    | 16.01   | /       | 17.00   |
|                    |                  | 135     | 0         | /                    | 12.58   | /       | 13.50   |
|                    |                  | 135     | 69        | /                    | 16.07   | /       | 17.00   |
|                    |                  | 135     | 138       | /                    | 12.60   | /       | 13.50   |
|                    |                  | 270     | 0         | /                    | 15.17   | /       | 16.00   |
|                    | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 14.84   | /       | 16.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | /                    | 633334  | /       |         |
| 100MHz             | CP-OFDM QPSK     | 1       | 1         | /                    | 14.25   | /       | 15.50   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | /                    | 633334  | /       |         |
| 90MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 16.19   | /       | 17.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | /                    | 633334  | /       |         |
| 80MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 16.24   | /       | 17.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | /                    | 633334  | /       |         |
| 70MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 16.22   | /       | 17.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | /                    | 633334  | /       |         |
| 60MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 16.19   | /       | 17.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | /                    | 633334  | /       |         |
| 50MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 16.20   | /       | 17.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | /                    | 633334  | /       |         |
| 40MHz              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 16.22   | /       | 17.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | 631001               | 633334  | 635667  |         |
| 30MHz              | DFT-s-OFDM QPSK  | 1       | 1         | 16.21                | 16.21   | 16.17   | 17.00   |
| Bandwidth          | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                    |                  |         |           | 630668               | 633334  | 636000  |         |
| 20MHz              | DFT-s-OFDM       | 1       | 1         | 16.23                | 16.17   | 16.19   | 17.00   |

|           | QPSK            |         |           |         |         |         |         |
|-----------|-----------------|---------|-----------|---------|---------|---------|---------|
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 630334  | 633334  | 636334  |         |
| 15MHz     | DFT-s-OFDM QPSK | 1       | 1         | 16.17   | 16.17   | 16.18   | 17.00   |
| Bandwidth | Modulation      | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |                 |         |           | 630001  | 633334  | 636668  |         |
| 10MHz     | DFT-s-OFDM QPSK | 1       | 1         | 16.16   | 16.16   | 16.21   | 17.00   |

| N77 PC2_30kHz Body worn /Hotspot |                  |         |           | Conducted Power(dBm) |         |         |         |
|----------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | /                    | 633334  | /       |         |
|                                  |                  |         |           | /                    | 3500.01 | /       |         |
| 100MHz                           | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 14.59   | /       | 15.50   |
|                                  |                  | 1       | 137       | /                    | 14.43   | /       | 15.50   |
|                                  |                  | 1       | 271       | /                    | 14.43   | /       | 15.50   |
|                                  |                  | 135     | 0         | /                    | 10.99   | /       | 12.00   |
|                                  |                  | 135     | 69        | /                    | 14.50   | /       | 15.50   |
|                                  |                  | 135     | 138       | /                    | 11.01   | /       | 12.00   |
|                                  |                  | 270     | 0         | /                    | 13.54   | /       | 14.50   |
|                                  | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 13.22   | /       | 14.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | /                    | 633334  | /       |         |
| 100MHz                           | CP-OFDM QPSK     | 1       | 1         | /                    | 12.89   | /       | 14.00   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | /                    | 633334  | /       |         |
| 90MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 14.62   | /       | 15.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | /                    | 633334  | /       |         |
| 80MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 14.64   | /       | 15.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | /                    | 633334  | /       |         |
| 70MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 14.62   | /       | 15.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | /                    | 633334  | /       |         |
| 60MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 14.61   | /       | 15.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | /                    | 633334  | /       |         |
| 50MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 14.65   | /       | 15.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | /                    | 633334  | /       |         |
| 40MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 14.59   | /       | 15.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | 631001               | 633334  | 635667  |         |
| 30MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | 14.60                | 14.63   | 14.61   | 15.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                  |                  |         |           | 630668               | 633334  | 636000  |         |
| 20MHz                            | DFT-s-OFDM QPSK  | 1       | 1         | 14.64                | 14.59   | 14.60   | 15.50   |
| Bandwidth                        | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |

|           |                 |         |           |                |                |                |         |
|-----------|-----------------|---------|-----------|----------------|----------------|----------------|---------|
|           |                 |         |           | 630334         | 633334         | 636334         |         |
| 15MHz     | DFT-s-OFDM QPSK | 1       | 1         | 14.58          | 14.63          | 14.57          | 15.50   |
| Bandwidth | Modulation      | RB size | RB offset | Channel 630001 | Channel 633334 | Channel 636668 | Tune up |
| 10MHz     | DFT-s-OFDM QPSK | 1       | 1         | 14.58          | 14.63          | 14.58          | 15.50   |

| N77 PC2 30kHz Head For Simultaneous |                  |         |           | Conducted Power(dBm) |         |         |         |
|-------------------------------------|------------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
|                                     |                  |         |           | /                    | 3500.01 | /       |         |
| 100MHz                              | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 13.08   | /       | 14.00   |
|                                     |                  | 1       | 137       | /                    | 12.91   | /       | 14.00   |
|                                     |                  | 1       | 271       | /                    | 12.90   | /       | 14.00   |
|                                     |                  | 135     | 0         | /                    | 9.50    | /       | 10.50   |
|                                     |                  | 135     | 69        | /                    | 13.03   | /       | 14.00   |
|                                     |                  | 135     | 138       | /                    | 9.46    | /       | 10.50   |
|                                     |                  | 270     | 0         | /                    | 12.05   | /       | 13.00   |
|                                     | DFT-s-OFDM 16QAM | 1       | 1         | /                    | 11.71   | /       | 13.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 100MHz                              | CP-OFDM QPSK     | 1       | 1         | /                    | 11.48   | /       | 12.50   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 90MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 13.17   | /       | 14.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 80MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 13.22   | /       | 14.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 70MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 13.08   | /       | 14.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 60MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 13.12   | /       | 14.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 50MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 13.10   | /       | 14.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | /                    | 633334  | /       |         |
| 40MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | /                    | 13.15   | /       | 14.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | 631001               | 633334  | 635667  |         |
| 30MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | 13.16                | 13.15   | 13.17   | 14.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | 630668               | 633334  | 636000  |         |
| 20MHz                               | DFT-s-OFDM QPSK  | 1       | 1         | 13.08                | 13.22   | 13.09   | 14.00   |
| Bandwidth                           | Modulation       | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                                     |                  |         |           | 630334               | 633334  | 636334  |         |
| 15MHz                               | DFT-s-           | 1       | 1         | 13.13                | 13.23   | 13.21   | 14.00   |