



# Appendix E

## Conducted RF Output Power

| Test Conditions | Test Scenario Explanation | Test Antenna Position Number |
|-----------------|---------------------------|------------------------------|
| Sensor off      | Extremity-SAR             | All Antennas                 |
| Sensor on       | Extremity-SAR             | All Antennas                 |

# Measurement of RF conducted Power

## 1 Conducted Power of Legacy

### Conducted Power of Legacy

| GSM 850                 |            |       |       |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel                 |            | 128   | 190   | 251   | Tune up |                  | 128                             | 190   | 251   | Tune up |
| GSM(GMSK)               | GSM        | 32.41 | 32.42 | 32.35 | 33.00   | -9.19            | 23.22                           | 23.23 | 23.16 | 23.81   |
| GPRS (GMSK)             | 1 TX Slot  | 32.35 | 32.38 | 32.32 | 33.00   | -9.19            | 23.16                           | 23.19 | 23.13 | 23.81   |
|                         | 2 TX Slots | 31.30 | 31.43 | 31.31 | 32.00   | -6.18            | 25.12                           | 25.25 | 25.13 | 25.82   |
|                         | 3 TX Slots | 28.99 | 29.05 | 28.95 | 30.00   | -4.42            | 24.57                           | 24.63 | 24.53 | 25.58   |
|                         | 4 TX Slots | 28.25 | 28.33 | 28.28 | 29.00   | -3.17            | 25.08                           | 25.16 | 25.11 | 25.83   |
| EGPRS (GMSK)            | 1 TX Slot  | 32.20 | 32.35 | 32.25 | 33.00   | -9.19            | 23.01                           | 23.16 | 23.06 | 23.81   |
|                         | 2 TX Slots | 31.26 | 31.39 | 31.27 | 32.00   | -6.18            | 25.08                           | 25.21 | 25.09 | 25.82   |
|                         | 3 TX Slots | 28.89 | 29.01 | 28.94 | 30.00   | -4.42            | 24.47                           | 24.59 | 24.52 | 25.58   |
|                         | 4 TX Slots | 28.10 | 28.25 | 28.20 | 29.00   | -3.17            | 24.93                           | 25.08 | 25.03 | 25.83   |
| EGPRS (8PSK)            | 1 TX Slot  | 26.35 | 26.48 | 26.39 | 27.00   | -9.19            | 17.16                           | 17.29 | 17.20 | 17.81   |
|                         | 2 TX Slots | 25.68 | 25.84 | 25.71 | 26.50   | -6.18            | 19.50                           | 19.66 | 19.53 | 20.32   |
|                         | 3 TX Slots | 24.00 | 24.07 | 23.92 | 25.00   | -4.42            | 19.58                           | 19.65 | 19.50 | 20.58   |
|                         | 4 TX Slots | 22.77 | 22.91 | 22.84 | 23.50   | -3.17            | 19.60                           | 19.74 | 19.67 | 20.33   |

| GSM 1900 Sensor off     |            |       |       |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel                 |            | 512   | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)               | GSM        | 29.81 | 29.95 | 29.89 | 30.50   | -9.19            | 20.62                           | 20.76 | 20.70 | 21.31   |
| GPRS (GMSK)             | 1 TX Slot  | 29.88 | 29.92 | 29.87 | 30.50   | -9.19            | 20.69                           | 20.73 | 20.68 | 21.31   |
|                         | 2 TX Slots | 28.72 | 28.83 | 28.77 | 29.50   | -6.18            | 22.54                           | 22.65 | 22.59 | 23.32   |
|                         | 3 TX Slots | 27.29 | 27.44 | 27.32 | 28.00   | -4.42            | 22.87                           | 23.02 | 22.90 | 23.58   |
|                         | 4 TX Slots | 26.25 | 26.28 | 26.23 | 27.00   | -3.17            | 23.08                           | 23.11 | 23.06 | 23.83   |
| EGPRS (GMSK)            | 1 TX Slot  | 29.83 | 29.89 | 29.78 | 30.50   | -9.19            | 20.64                           | 20.70 | 20.59 | 21.31   |
|                         | 2 TX Slots | 28.69 | 28.78 | 28.64 | 29.50   | -6.18            | 22.51                           | 22.60 | 22.46 | 23.32   |
|                         | 3 TX Slots | 27.23 | 27.38 | 27.24 | 28.00   | -4.42            | 22.81                           | 22.96 | 22.82 | 23.58   |
|                         | 4 TX Slots | 25.96 | 26.05 | 25.96 | 27.00   | -3.17            | 22.79                           | 22.88 | 22.79 | 23.83   |
| EGPRS (8PSK)            | 1 TX Slot  | 26.48 | 26.62 | 26.56 | 27.50   | -9.19            | 17.29                           | 17.43 | 17.37 | 18.31   |
|                         | 2 TX Slots | 25.21 | 25.37 | 25.25 | 26.00   | -6.18            | 19.03                           | 19.19 | 19.07 | 19.82   |
|                         | 3 TX Slots | 23.43 | 23.49 | 23.41 | 24.00   | -4.42            | 19.01                           | 19.07 | 18.99 | 19.58   |
|                         | 4 TX Slots | 22.00 | 22.11 | 22.04 | 23.00   | -3.17            | 18.83                           | 18.94 | 18.87 | 19.83   |

| GSM 1900 Sensor on      |            |       |       |       |         |                  |                                 |       |       |         |
|-------------------------|------------|-------|-------|-------|---------|------------------|---------------------------------|-------|-------|---------|
| Burst Output Power(dBm) |            |       |       |       |         | Division Factors | Frame-Average Output Power(dBm) |       |       |         |
| Channel                 |            | 512   | 661   | 810   | Tune up |                  | 512                             | 661   | 810   | Tune up |
| GSM(GMSK)               | GSM        | 27.67 | 27.82 | 27.80 | 28.50   | -9.19            | 18.48                           | 18.63 | 18.61 | 19.31   |
| GPRS (GMSK)             | 1 TX Slot  | 27.73 | 27.85 | 27.72 | 28.50   | -9.19            | 18.54                           | 18.66 | 18.53 | 19.31   |
|                         | 2 TX Slots | 26.63 | 26.75 | 26.65 | 27.50   | -6.18            | 20.45                           | 20.57 | 20.47 | 21.32   |
|                         | 3 TX Slots | 25.20 | 25.29 | 25.18 | 26.00   | -4.42            | 20.78                           | 20.87 | 20.76 | 21.58   |
|                         | 4 TX Slots | 24.24 | 24.26 | 24.22 | 25.00   | -3.17            | 21.07                           | 21.09 | 21.05 | 21.83   |
| EGPRS (GMSK)            | 1 TX Slot  | 27.77 | 27.74 | 27.66 | 28.50   | -9.19            | 18.58                           | 18.55 | 18.47 | 19.31   |
|                         | 2 TX Slots | 26.54 | 26.68 | 26.54 | 27.50   | -6.18            | 20.36                           | 20.50 | 20.36 | 21.32   |
|                         | 3 TX Slots | 25.10 | 25.23 | 25.17 | 26.00   | -4.42            | 20.68                           | 20.81 | 20.75 | 21.58   |
|                         | 4 TX Slots | 23.83 | 23.91 | 23.80 | 25.00   | -3.17            | 20.66                           | 20.74 | 20.63 | 21.83   |
| EGPRS (8PSK)            | 1 TX Slot  | 24.34 | 24.49 | 24.43 | 25.50   | -9.19            | 15.15                           | 15.30 | 15.24 | 16.31   |
|                         | 2 TX Slots | 23.14 | 23.23 | 23.18 | 24.00   | -6.18            | 16.96                           | 17.05 | 17.00 | 17.82   |
|                         | 3 TX Slots | 21.33 | 21.41 | 21.32 | 22.00   | -4.42            | 16.91                           | 16.99 | 16.90 | 17.58   |
|                         | 4 TX Slots | 19.89 | 20.03 | 19.96 | 21.00   | -3.17            | 16.72                           | 16.86 | 16.79 | 17.83   |

| WCDMA Band II                |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 9262  | 9400  | 9538  | Tune up |
| WCDMA                        | 12.2kbps RMC | 23.03 | 23.15 | 23.11 | 23.50   |
|                              | 12.2kbps AMR | 22.98 | 23.09 | 23.05 | 23.50   |
| HSDPA                        | Subtest 1    | 22.32 | 22.24 | 22.55 | 23.00   |
|                              | Subtest 2    | 22.31 | 22.27 | 22.53 | 23.00   |
|                              | Subtest 3    | 21.86 | 21.77 | 22.02 | 22.50   |
|                              | Subtest 4    | 21.80 | 21.79 | 22.05 | 22.50   |
| HSUPA                        | Subtest 1    | 22.22 | 22.12 | 22.40 | 23.00   |
|                              | Subtest 2    | 20.18 | 20.11 | 20.42 | 21.00   |
|                              | Subtest 3    | 21.25 | 21.13 | 21.43 | 22.00   |
|                              | Subtest 4    | 20.23 | 20.09 | 20.41 | 21.00   |
|                              | Subtest 5    | 22.25 | 22.15 | 22.49 | 23.00   |
| DC-HSDPA                     | Subtest 1    | 22.26 | 22.14 | 22.49 | 23.00   |
|                              | Subtest 2    | 22.22 | 22.19 | 22.39 | 23.00   |
|                              | Subtest 3    | 21.73 | 21.67 | 21.94 | 22.50   |
|                              | Subtest 4    | 21.69 | 21.64 | 21.92 | 22.50   |
| HSPA+                        | 16QAM        | 22.20 | 22.15 | 22.33 | 23.00   |

| WCDMA Band IV                |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 1312  | 1412  | 1513  | Tune up |
| WCDMA                        | 12.2kbps RMC | 22.75 | 22.78 | 22.69 | 23.50   |
|                              | 12.2kbps AMR | 22.68 | 22.65 | 22.53 | 23.50   |
| HSDPA                        | Subtest 1    | 22.06 | 21.99 | 22.19 | 23.00   |
|                              | Subtest 2    | 21.98 | 21.93 | 22.24 | 23.00   |
|                              | Subtest 3    | 21.53 | 21.43 | 21.74 | 22.50   |
|                              | Subtest 4    | 21.54 | 21.51 | 21.75 | 22.50   |
| HSUPA                        | Subtest 1    | 21.87 | 21.79 | 22.08 | 23.00   |
|                              | Subtest 2    | 19.88 | 19.79 | 20.14 | 21.00   |
|                              | Subtest 3    | 20.95 | 20.85 | 21.10 | 22.00   |
|                              | Subtest 4    | 19.97 | 19.74 | 20.13 | 21.00   |
|                              | Subtest 5    | 21.96 | 21.79 | 22.20 | 23.00   |
| DC-HSDPA                     | Subtest 1    | 22.01 | 21.85 | 22.14 | 23.00   |
|                              | Subtest 2    | 21.92 | 21.90 | 22.11 | 23.00   |
|                              | Subtest 3    | 21.39 | 21.38 | 21.58 | 22.50   |
|                              | Subtest 4    | 21.36 | 21.38 | 21.60 | 22.50   |
| HSPA+                        | 16QAM        | 21.93 | 21.88 | 22.02 | 23.00   |

| WCDMA Band V                 |              |       |       |       |         |
|------------------------------|--------------|-------|-------|-------|---------|
| Average Conducted Power(dBm) |              |       |       |       |         |
| Channel                      |              | 4132  | 4182  | 4233  | Tune up |
| WCDMA                        | 12.2kbps RMC | 22.68 | 22.55 | 22.75 | 23.50   |
|                              | 12.2kbps AMR | 22.64 | 22.51 | 22.69 | 23.50   |
| HSDPA                        | Subtest 1    | 22.16 | 22.03 | 22.28 | 23.00   |
|                              | Subtest 2    | 22.05 | 21.97 | 22.29 | 23.00   |
|                              | Subtest 3    | 21.63 | 21.47 | 21.80 | 22.50   |
|                              | Subtest 4    | 21.63 | 21.57 | 21.84 | 22.50   |
| HSUPA                        | Subtest 1    | 21.95 | 21.79 | 22.08 | 23.00   |
|                              | Subtest 2    | 19.98 | 19.82 | 20.18 | 21.00   |
|                              | Subtest 3    | 20.97 | 20.95 | 21.12 | 22.00   |
|                              | Subtest 4    | 20.07 | 19.84 | 20.13 | 21.00   |
|                              | Subtest 5    | 22.03 | 21.85 | 22.22 | 23.00   |
| DC-HSDPA                     | Subtest 1    | 22.10 | 21.88 | 22.13 | 23.00   |
|                              | Subtest 2    | 21.92 | 21.96 | 22.14 | 23.00   |
|                              | Subtest 3    | 21.43 | 21.47 | 21.65 | 22.50   |
|                              | Subtest 4    | 21.43 | 21.48 | 21.69 | 22.50   |
| HSPA+                        | 16QAM        | 22.02 | 21.90 | 22.04 | 23.00   |

| LTE Band 2 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz     | QPSK       | 1       | 0         | 21.73                | 21.66   | 21.73   | 22.50   |
|            |            | 1       | 2         | 21.69                | 21.74   | 21.72   | 22.50   |
|            |            | 1       | 5         | 21.66                | 21.69   | 21.68   | 22.50   |
|            |            | 3       | 0         | 21.69                | 21.74   | 21.73   | 22.50   |
|            |            | 3       | 2         | 21.67                | 21.75   | 21.70   | 22.50   |
|            |            | 3       | 3         | 21.73                | 21.68   | 21.73   | 22.50   |
|            |            | 6       | 0         | 20.73                | 20.76   | 20.69   | 21.50   |
|            | 16QAM      | 1       | 0         | 20.74                | 20.67   | 20.74   | 21.50   |
|            |            | 1       | 2         | 20.68                | 20.75   | 20.75   | 21.50   |
|            |            | 1       | 5         | 20.77                | 20.74   | 20.70   | 21.50   |
|            |            | 3       | 0         | 20.71                | 20.67   | 20.69   | 21.50   |
|            |            | 3       | 2         | 20.77                | 20.71   | 20.68   | 21.50   |
|            |            | 3       | 3         | 20.75                | 20.72   | 20.71   | 21.50   |
|            |            | 6       | 0         | 19.74                | 19.76   | 19.68   | 20.50   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz       | QPSK       | 1       | 0         | 21.54                | 21.70   | 21.55   | 22.50   |
|            |            | 1       | 7         | 21.54                | 21.57   | 21.55   | 22.50   |
|            |            | 1       | 14        | 21.60                | 21.60   | 21.66   | 22.50   |
|            |            | 8       | 0         | 20.74                | 20.87   | 20.67   | 21.50   |
|            |            | 8       | 4         | 20.67                | 20.57   | 20.64   | 21.50   |
|            |            | 8       | 7         | 20.66                | 20.57   | 20.57   | 21.50   |
|            |            | 15      | 0         | 20.59                | 20.57   | 20.47   | 21.50   |
|            | 16QAM      | 1       | 0         | 20.44                | 20.65   | 20.51   | 21.50   |
|            |            | 1       | 7         | 20.57                | 20.71   | 20.50   | 21.50   |
|            |            | 1       | 14        | 20.49                | 20.51   | 20.49   | 21.50   |
|            |            | 8       | 0         | 19.69                | 19.52   | 19.66   | 20.50   |
|            |            | 8       | 4         | 19.54                | 19.68   | 19.57   | 20.50   |
|            |            | 8       | 7         | 19.56                | 19.46   | 19.65   | 20.50   |
|            |            | 15      | 0         | 19.50                | 19.49   | 19.55   | 20.50   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 18625                | 18900   | 19175   |         |
| 5MHz       | QPSK       | 1       | 0         | 21.56                | 21.66   | 21.57   | 22.50   |
|            |            | 1       | 13        | 21.61                | 21.57   | 21.51   | 22.50   |
|            |            | 1       | 24        | 21.64                | 21.61   | 21.63   | 22.50   |
|            |            | 12      | 0         | 20.79                | 20.86   | 20.71   | 21.50   |
|            |            | 12      | 6         | 20.59                | 20.62   | 20.64   | 21.50   |
|            |            | 12      | 13        | 20.68                | 20.59   | 20.64   | 21.50   |
|            |            | 25      | 0         | 20.61                | 20.60   | 20.47   | 21.50   |
|            | 16QAM      | 1       | 0         | 20.45                | 20.58   | 20.54   | 21.50   |
|            |            | 1       | 13        | 20.59                | 20.63   | 20.57   | 21.50   |
|            |            | 1       | 24        | 20.50                | 20.57   | 20.49   | 21.50   |
|            |            | 12      | 0         | 19.70                | 19.49   | 19.65   | 20.50   |
|            |            | 12      | 6         | 19.59                | 19.66   | 19.55   | 20.50   |
|            |            | 12      | 13        | 19.59                | 19.47   | 19.71   | 20.50   |
|            |            | 25      | 0         | 19.49                | 19.41   | 19.55   | 20.50   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 18650                | 18900   | 19150   |         |
| 10MHz      | QPSK       | 1       | 0         | 21.60                | 21.73   | 21.56   | 22.50   |
|            |            | 1       | 25        | 21.60                | 21.61   | 21.55   | 22.50   |
|            |            | 1       | 49        | 21.61                | 21.50   | 21.63   | 22.50   |
|            |            | 25      | 0         | 20.76                | 20.77   | 20.73   | 21.50   |
|            |            | 25      | 13        | 20.59                | 20.62   | 20.66   | 21.50   |
|            |            | 25      | 25        | 20.73                | 20.52   | 20.65   | 21.50   |
|            |            | 50      | 0         | 20.53                | 20.52   | 20.53   | 21.50   |
|            | 16QAM      | 1       | 0         | 20.43                | 20.59   | 20.51   | 21.50   |
|            |            | 1       | 25        | 20.66                | 20.72   | 20.53   | 21.50   |
|            |            | 1       | 49        | 20.49                | 20.55   | 20.48   | 21.50   |
|            |            | 25      | 0         | 19.72                | 19.52   | 19.67   | 20.50   |

|           |            | 25      | 13        | 19.63   | 19.71   | 19.51   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 25      | 25        | 19.60   | 19.49   | 19.74   | 20.50   |
|           |            | 50      | 0         | 19.51   | 19.38   | 19.64   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
| 15MHz     | QPSK       | 1       | 0         | 21.59   | 21.66   | 21.59   | 22.50   |
|           |            | 1       | 38        | 21.57   | 21.60   | 21.56   | 22.50   |
|           |            | 1       | 74        | 21.64   | 21.53   | 21.61   | 22.50   |
|           |            | 36      | 0         | 20.76   | 20.79   | 20.68   | 21.50   |
|           |            | 36      | 18        | 20.65   | 20.55   | 20.67   | 21.50   |
|           |            | 36      | 39        | 20.64   | 20.59   | 20.63   | 21.50   |
|           |            | 75      | 0         | 20.61   | 20.58   | 20.46   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.51   | 20.58   | 20.49   | 21.50   |
|           |            | 1       | 38        | 20.59   | 20.71   | 20.53   | 21.50   |
|           |            | 1       | 74        | 20.47   | 20.52   | 20.52   | 21.50   |
|           |            | 36      | 0         | 19.65   | 19.53   | 19.65   | 20.50   |
|           |            | 36      | 18        | 19.58   | 19.62   | 19.61   | 20.50   |
|           |            | 36      | 39        | 19.67   | 19.52   | 19.65   | 20.50   |
|           |            | 75      | 0         | 19.51   | 19.43   | 19.58   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
| 20MHz     | QPSK       | 1       | 0         | 21.69   | 21.79   | 21.70   | 22.50   |
|           |            | 1       | 50        | 21.69   | 21.70   | 21.65   | 22.50   |
|           |            | 1       | 99        | 21.75   | 21.66   | 21.72   | 22.50   |
|           |            | 50      | 0         | 20.88   | 20.93   | 20.82   | 21.50   |
|           |            | 50      | 25        | 20.73   | 20.71   | 20.74   | 21.50   |
|           |            | 50      | 50        | 20.80   | 20.66   | 20.73   | 21.50   |
|           |            | 100     | 0         | 20.66   | 20.67   | 20.60   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.57   | 20.71   | 20.65   | 21.50   |
|           |            | 1       | 50        | 20.72   | 20.78   | 20.63   | 21.50   |
|           |            | 1       | 99        | 20.60   | 20.62   | 20.64   | 21.50   |
|           |            | 50      | 0         | 19.78   | 19.65   | 19.73   | 20.50   |
|           |            | 50      | 25        | 19.68   | 19.77   | 19.67   | 20.50   |
|           |            | 50      | 50        | 19.72   | 19.61   | 19.81   | 20.50   |
|           |            | 100     | 0         | 19.62   | 19.54   | 19.70   | 20.50   |

| LTE Band 2 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 18607                | 18900   | 19193   |         |
| 1.4MHz     | QPSK       | 1       | 0         | 21.73                | 21.66   | 21.73   | 22.50   |
|            |            | 1       | 2         | 21.69                | 21.74   | 21.72   | 22.50   |
|            |            | 1       | 5         | 21.66                | 21.69   | 21.68   | 22.50   |
|            |            | 3       | 0         | 21.69                | 21.74   | 21.73   | 22.50   |
|            |            | 3       | 2         | 21.67                | 21.75   | 21.70   | 22.50   |
|            |            | 3       | 3         | 21.73                | 21.68   | 21.73   | 22.50   |
|            |            | 6       | 0         | 20.73                | 20.76   | 20.69   | 21.50   |
|            | 16QAM      | 1       | 0         | 20.74                | 20.67   | 20.74   | 21.50   |
|            |            | 1       | 2         | 20.68                | 20.75   | 20.75   | 21.50   |
|            |            | 1       | 5         | 20.77                | 20.74   | 20.70   | 21.50   |
|            |            | 3       | 0         | 20.71                | 20.67   | 20.69   | 21.50   |
|            |            | 3       | 2         | 20.77                | 20.71   | 20.68   | 21.50   |
|            |            | 3       | 3         | 20.75                | 20.72   | 20.71   | 21.50   |
|            |            | 6       | 0         | 19.74                | 19.76   | 19.68   | 20.50   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 18615                | 18900   | 19185   |         |
| 3MHz       | QPSK       | 1       | 0         | 21.54                | 21.70   | 21.55   | 22.50   |
|            |            | 1       | 7         | 21.54                | 21.57   | 21.55   | 22.50   |
|            |            | 1       | 14        | 21.60                | 21.60   | 21.66   | 22.50   |
|            |            | 8       | 0         | 20.74                | 20.87   | 20.67   | 21.50   |
|            |            | 8       | 4         | 20.67                | 20.57   | 20.64   | 21.50   |
|            |            | 8       | 7         | 20.66                | 20.57   | 20.57   | 21.50   |
|            |            | 15      | 0         | 20.59                | 20.57   | 20.47   | 21.50   |

|           |            | 1       | 0         | 20.44   | 20.65   | 20.51   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 7         | 20.57   | 20.71   | 20.50   | 21.50   |
|           |            | 1       | 14        | 20.49   | 20.51   | 20.49   | 21.50   |
|           | 16QAM      | 8       | 0         | 19.69   | 19.52   | 19.66   | 20.50   |
|           |            | 8       | 4         | 19.54   | 19.68   | 19.57   | 20.50   |
|           |            | 8       | 7         | 19.56   | 19.46   | 19.65   | 20.50   |
|           |            | 15      | 0         | 19.50   | 19.49   | 19.55   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18625   | 18900   | 19175   |         |
|           |            | 1       | 0         | 21.56   | 21.66   | 21.57   | 22.50   |
|           |            | 1       | 13        | 21.61   | 21.57   | 21.51   | 22.50   |
|           |            | 1       | 24        | 21.64   | 21.61   | 21.63   | 22.50   |
|           | QPSK       | 12      | 0         | 20.79   | 20.86   | 20.71   | 21.50   |
|           |            | 12      | 6         | 20.59   | 20.62   | 20.64   | 21.50   |
|           |            | 12      | 13        | 20.68   | 20.59   | 20.64   | 21.50   |
|           |            | 25      | 0         | 20.61   | 20.60   | 20.47   | 21.50   |
|           |            | 1       | 0         | 20.45   | 20.58   | 20.54   | 21.50   |
|           |            | 1       | 13        | 20.59   | 20.63   | 20.57   | 21.50   |
|           |            | 1       | 24        | 20.50   | 20.57   | 20.49   | 21.50   |
|           | 16QAM      | 12      | 0         | 19.70   | 19.49   | 19.65   | 20.50   |
|           |            | 12      | 6         | 19.59   | 19.66   | 19.55   | 20.50   |
|           |            | 12      | 13        | 19.59   | 19.47   | 19.71   | 20.50   |
|           |            | 25      | 0         | 19.49   | 19.41   | 19.55   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18650   | 18900   | 19150   |         |
|           |            | 1       | 0         | 21.60   | 21.73   | 21.56   | 22.50   |
|           |            | 1       | 25        | 21.60   | 21.61   | 21.55   | 22.50   |
|           |            | 1       | 49        | 21.61   | 21.50   | 21.63   | 22.50   |
|           | QPSK       | 25      | 0         | 20.76   | 20.77   | 20.73   | 21.50   |
|           |            | 25      | 13        | 20.59   | 20.62   | 20.66   | 21.50   |
|           |            | 25      | 25        | 20.73   | 20.52   | 20.65   | 21.50   |
|           |            | 50      | 0         | 20.53   | 20.52   | 20.53   | 21.50   |
|           |            | 1       | 0         | 20.43   | 20.59   | 20.51   | 21.50   |
|           |            | 1       | 25        | 20.66   | 20.72   | 20.53   | 21.50   |
|           |            | 1       | 49        | 20.49   | 20.55   | 20.48   | 21.50   |
|           | 16QAM      | 25      | 0         | 19.72   | 19.52   | 19.67   | 20.50   |
|           |            | 25      | 13        | 19.63   | 19.71   | 19.51   | 20.50   |
|           |            | 25      | 25        | 19.60   | 19.49   | 19.74   | 20.50   |
|           |            | 50      | 0         | 19.51   | 19.38   | 19.64   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18675   | 18900   | 19125   |         |
|           |            | 1       | 0         | 21.59   | 21.66   | 21.59   | 22.50   |
|           |            | 1       | 38        | 21.57   | 21.60   | 21.56   | 22.50   |
|           |            | 1       | 74        | 21.64   | 21.53   | 21.61   | 22.50   |
|           | QPSK       | 36      | 0         | 20.76   | 20.79   | 20.68   | 21.50   |
|           |            | 36      | 18        | 20.65   | 20.55   | 20.67   | 21.50   |
|           |            | 36      | 39        | 20.64   | 20.59   | 20.63   | 21.50   |
|           |            | 75      | 0         | 20.61   | 20.58   | 20.46   | 21.50   |
|           |            | 1       | 0         | 20.51   | 20.58   | 20.49   | 21.50   |
|           |            | 1       | 38        | 20.59   | 20.71   | 20.53   | 21.50   |
|           |            | 1       | 74        | 20.47   | 20.52   | 20.52   | 21.50   |
|           | 16QAM      | 36      | 0         | 19.65   | 19.53   | 19.65   | 20.50   |
|           |            | 36      | 18        | 19.58   | 19.62   | 19.61   | 20.50   |
|           |            | 36      | 39        | 19.67   | 19.52   | 19.65   | 20.50   |
|           |            | 75      | 0         | 19.51   | 19.43   | 19.58   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 18700   | 18900   | 19100   |         |
|           |            | 1       | 0         | 21.69   | 21.79   | 21.70   | 22.50   |
|           |            | 1       | 50        | 21.69   | 21.70   | 21.65   | 22.50   |
|           |            | 1       | 99        | 21.75   | 21.66   | 21.72   | 22.50   |
|           | QPSK       | 50      | 0         | 20.88   | 20.93   | 20.82   | 21.50   |
|           |            | 50      | 25        | 20.73   | 20.71   | 20.74   | 21.50   |
|           |            | 50      | 50        | 20.80   | 20.66   | 20.73   | 21.50   |

|  |       |     |    |       |       |       |       |
|--|-------|-----|----|-------|-------|-------|-------|
|  | 16QAM | 100 | 0  | 20.66 | 20.67 | 20.60 | 21.50 |
|  |       | 1   | 0  | 20.57 | 20.71 | 20.65 | 21.50 |
|  |       | 1   | 50 | 20.72 | 20.78 | 20.63 | 21.50 |
|  |       | 1   | 99 | 20.60 | 20.62 | 20.64 | 21.50 |
|  |       | 50  | 0  | 19.78 | 19.65 | 19.73 | 20.50 |
|  |       | 50  | 25 | 19.68 | 19.77 | 19.67 | 20.50 |
|  |       | 50  | 50 | 19.72 | 19.61 | 19.81 | 20.50 |
|  |       | 100 | 0  | 19.62 | 19.54 | 19.70 | 20.50 |

| LTE Band 4 |            |         |           | Conducted Power(dBm) |         |         |         |
|------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 19957                | 20175   | 20393   |         |
| 1.4MHz     | QPSK       | 1       | 0         | 21.72                | 21.63   | 21.80   | 22.50   |
|            |            | 1       | 2         | 21.68                | 21.73   | 21.72   | 22.50   |
|            |            | 1       | 5         | 21.68                | 21.73   | 21.67   | 22.50   |
|            |            | 3       | 0         | 21.68                | 21.79   | 21.74   | 22.50   |
|            |            | 3       | 2         | 21.72                | 21.75   | 21.69   | 22.50   |
|            |            | 3       | 3         | 21.79                | 21.74   | 21.77   | 22.50   |
|            |            | 6       | 0         | 20.71                | 20.72   | 20.69   | 21.50   |
|            | 16QAM      | 1       | 0         | 20.80                | 20.67   | 20.80   | 21.50   |
|            |            | 1       | 2         | 20.66                | 20.73   | 20.81   | 21.50   |
|            |            | 1       | 5         | 20.75                | 20.75   | 20.70   | 21.50   |
|            |            | 3       | 0         | 20.77                | 20.72   | 20.65   | 21.50   |
|            |            | 3       | 2         | 20.74                | 20.72   | 20.74   | 21.50   |
|            |            | 3       | 3         | 20.73                | 20.77   | 20.78   | 21.50   |
|            |            | 6       | 0         | 19.74                | 19.81   | 19.74   | 20.50   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 19965                | 20175   | 20385   |         |
| 3MHz       | QPSK       | 1       | 0         | 21.68                | 21.76   | 21.60   | 22.50   |
|            |            | 1       | 7         | 21.71                | 21.61   | 21.82   | 22.50   |
|            |            | 1       | 14        | 21.60                | 21.68   | 21.61   | 22.50   |
|            |            | 8       | 0         | 20.83                | 20.73   | 20.84   | 21.50   |
|            |            | 8       | 4         | 20.55                | 20.63   | 20.58   | 21.50   |
|            |            | 8       | 7         | 20.60                | 20.52   | 20.68   | 21.50   |
|            |            | 15      | 0         | 20.58                | 20.59   | 20.64   | 21.50   |
|            | 16QAM      | 1       | 0         | 20.63                | 20.71   | 20.64   | 21.50   |
|            |            | 1       | 7         | 20.81                | 20.75   | 20.54   | 21.50   |
|            |            | 1       | 14        | 20.65                | 20.66   | 20.64   | 21.50   |
|            |            | 8       | 0         | 19.60                | 19.69   | 19.66   | 20.50   |
|            |            | 8       | 4         | 19.83                | 19.73   | 19.68   | 20.50   |
|            |            | 8       | 7         | 19.61                | 19.60   | 19.57   | 20.50   |
|            |            | 15      | 0         | 19.49                | 19.60   | 19.58   | 20.50   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 19975                | 20175   | 20375   |         |
| 5MHz       | QPSK       | 1       | 0         | 21.73                | 21.75   | 21.56   | 22.50   |
|            |            | 1       | 13        | 21.69                | 21.63   | 21.78   | 22.50   |
|            |            | 1       | 24        | 21.60                | 21.72   | 21.57   | 22.50   |
|            |            | 12      | 0         | 20.75                | 20.75   | 20.92   | 21.50   |
|            |            | 12      | 6         | 20.54                | 20.56   | 20.57   | 21.50   |
|            |            | 12      | 13        | 20.66                | 20.59   | 20.68   | 21.50   |
|            |            | 25      | 0         | 20.61                | 20.60   | 20.73   | 21.50   |
|            | 16QAM      | 1       | 0         | 20.70                | 20.64   | 20.67   | 21.50   |
|            |            | 1       | 13        | 20.82                | 20.75   | 20.57   | 21.50   |
|            |            | 1       | 24        | 20.65                | 20.67   | 20.69   | 21.50   |
|            |            | 12      | 0         | 19.60                | 19.71   | 19.66   | 20.50   |
|            |            | 12      | 6         | 19.84                | 19.77   | 19.69   | 20.50   |
|            |            | 12      | 13        | 19.62                | 19.62   | 19.67   | 20.50   |
|            |            | 25      | 0         | 19.49                | 19.58   | 19.66   | 20.50   |
| Bandwidth  | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|            |            |         |           | 20000                | 20175   | 20350   |         |
| 10MHz      | QPSK       | 1       | 0         | 21.71                | 21.71   | 21.63   | 22.50   |
|            |            | 1       | 25        | 21.71                | 21.64   | 21.77   | 22.50   |

|           |            |         |           |                  |                  |                  |         |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 1       | 49        | 21.60            | 21.76            | 21.55            | 22.50   |
|           |            | 25      | 0         | 20.82            | 20.76            | 20.93            | 21.50   |
|           |            | 25      | 13        | 20.55            | 20.59            | 20.56            | 21.50   |
|           |            | 25      | 25        | 20.69            | 20.52            | 20.62            | 21.50   |
|           |            | 50      | 0         | 20.61            | 20.57            | 20.73            | 21.50   |
|           | 16QAM      | 1       | 0         | 20.72            | 20.69            | 20.63            | 21.50   |
|           |            | 1       | 25        | 20.80            | 20.77            | 20.57            | 21.50   |
|           |            | 1       | 49        | 20.67            | 20.64            | 20.64            | 21.50   |
|           |            | 25      | 0         | 19.54            | 19.72            | 19.59            | 20.50   |
|           |            | 25      | 13        | 19.90            | 19.77            | 19.70            | 20.50   |
|           |            | 25      | 25        | 19.64            | 19.62            | 19.65            | 20.50   |
|           |            | 50      | 0         | 19.46            | 19.60            | 19.62            | 20.50   |
|           | 16QAM      | 1       | 0         | 20.72            | 20.69            | 20.63            | 21.50   |
|           |            | 1       | 25        | 20.80            | 20.77            | 20.57            | 21.50   |
|           |            | 1       | 49        | 20.67            | 20.64            | 20.64            | 21.50   |
|           |            | 25      | 0         | 19.54            | 19.72            | 19.59            | 20.50   |
|           |            | 25      | 13        | 19.90            | 19.77            | 19.70            | 20.50   |
|           |            | 25      | 25        | 19.64            | 19.62            | 19.65            | 20.50   |
|           |            | 50      | 0         | 19.46            | 19.60            | 19.62            | 20.50   |
|           |            | 50      | 0         | 19.46            | 19.60            | 19.62            | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>20025 | Channel<br>20175 | Channel<br>20325 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 21.72            | 21.75            | 21.62            | 22.50   |
|           |            | 1       | 38        | 21.67            | 21.60            | 21.79            | 22.50   |
|           |            | 1       | 74        | 21.58            | 21.71            | 21.61            | 22.50   |
|           |            | 36      | 0         | 20.74            | 20.72            | 20.84            | 21.50   |
|           |            | 36      | 18        | 20.51            | 20.63            | 20.54            | 21.50   |
|           |            | 36      | 39        | 20.62            | 20.57            | 20.59            | 21.50   |
|           | 16QAM      | 75      | 0         | 20.62            | 20.57            | 20.64            | 21.50   |
|           |            | 1       | 0         | 20.66            | 20.70            | 20.69            | 21.50   |
|           |            | 1       | 38        | 20.75            | 20.76            | 20.60            | 21.50   |
|           |            | 1       | 74        | 20.60            | 20.63            | 20.69            | 21.50   |
|           |            | 36      | 0         | 19.56            | 19.74            | 19.62            | 20.50   |
|           |            | 36      | 18        | 19.85            | 19.71            | 19.74            | 20.50   |
|           |            | 36      | 39        | 19.64            | 19.54            | 19.64            | 20.50   |
|           |            | 75      | 0         | 19.46            | 19.58            | 19.66            | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>/     | Channel<br>20175 | Channel<br>/     | Tune up |
| 20MHz     | QPSK       | 1       | 0         | /                | 21.85            | /                | 22.50   |
|           |            | 1       | 50        | /                | 21.82            | /                | 22.50   |
|           |            | 1       | 99        | /                | 21.78            | /                | 22.50   |
|           |            | 50      | 0         | /                | 20.88            | /                | 21.50   |
|           |            | 50      | 25        | /                | 20.77            | /                | 21.50   |
|           |            | 50      | 50        | /                | 20.76            | /                | 21.50   |
|           | 16QAM      | 100     | 0         | /                | 20.77            | /                | 21.50   |
|           |            | 1       | 0         | /                | 20.82            | /                | 21.50   |
|           |            | 1       | 50        | /                | 20.83            | /                | 21.50   |
|           |            | 1       | 99        | /                | 20.74            | /                | 21.50   |
|           |            | 50      | 0         | /                | 19.75            | /                | 20.50   |
|           |            | 50      | 25        | /                | 19.90            | /                | 20.50   |
|           |            | 50      | 50        | /                | 19.70            | /                | 20.50   |
|           |            | 100     | 0         | /                | 19.67            | /                | 20.50   |

| LTE Band 5 |            |         |           | Conducted Power(dBm) |                  |                  |         |
|------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth  | Modulation | RB size | RB offset | Channel<br>20407     | Channel<br>20525 | Channel<br>20643 | Tune up |
| 1.4MHz     | QPSK       | 1       | 0         | 21.58                | 21.53            | 21.66            | 22.50   |
|            |            | 1       | 2         | 21.60                | 21.61            | 21.63            | 22.50   |
|            |            | 1       | 5         | 21.55                | 21.61            | 21.53            | 22.50   |
|            |            | 3       | 0         | 21.53                | 21.67            | 21.66            | 22.50   |
|            |            | 3       | 2         | 21.58                | 21.64            | 21.53            | 22.50   |
|            |            | 3       | 3         | 21.65                | 21.64            | 21.68            | 22.50   |
|            | 16QAM      | 6       | 0         | 20.64                | 20.57            | 20.62            | 21.50   |
|            |            | 1       | 0         | 20.67                | 20.52            | 20.75            | 21.50   |
|            |            | 1       | 2         | 20.56                | 20.59            | 20.71            | 21.50   |
|            |            | 1       | 5         | 20.70                | 20.63            | 20.58            | 21.50   |
|            |            | 3       | 0         | 20.70                | 20.61            | 20.55            | 21.50   |
|            |            | 3       | 2         | 20.67                | 20.65            | 20.62            | 21.50   |
|            |            | 3       | 3         | 20.65                | 20.68            | 20.62            | 21.50   |
|            |            | 6       | 0         | 19.67                | 19.66            | 19.69            | 20.50   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | 20415   | 20525   | 20635   |         |
| 3MHz      | QPSK       | 1       | 0         | 21.55   | 21.61   | 21.56   | 22.50   |
|           |            | 1       | 7         | 21.56   | 21.58   | 21.61   | 22.50   |
|           |            | 1       | 14        | 21.64   | 21.63   | 21.60   | 22.50   |
|           |            | 8       | 0         | 20.55   | 20.65   | 20.63   | 21.50   |
|           |            | 8       | 4         | 20.65   | 20.56   | 20.58   | 21.50   |
|           |            | 8       | 7         | 20.63   | 20.64   | 20.56   | 21.50   |
|           |            | 15      | 0         | 20.55   | 20.63   | 20.55   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.64   | 20.59   | 20.61   | 21.50   |
|           |            | 1       | 7         | 20.58   | 20.58   | 20.57   | 21.50   |
|           |            | 1       | 14        | 20.57   | 20.63   | 20.59   | 21.50   |
|           |            | 8       | 0         | 19.60   | 19.64   | 19.63   | 20.50   |
|           |            | 8       | 4         | 19.55   | 19.63   | 19.55   | 20.50   |
|           |            | 8       | 7         | 19.63   | 19.60   | 19.55   | 20.50   |
|           |            | 15      | 0         | 19.61   | 19.62   | 19.55   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20425   | 20525   | 20625   |         |
| 5MHz      | QPSK       | 1       | 0         | 21.54   | 21.59   | 21.57   | 22.50   |
|           |            | 1       | 13        | 21.55   | 21.60   | 21.60   | 22.50   |
|           |            | 1       | 24        | 21.59   | 21.58   | 21.65   | 22.50   |
|           |            | 12      | 0         | 20.57   | 20.60   | 20.61   | 21.50   |
|           |            | 12      | 6         | 20.57   | 20.63   | 20.55   | 21.50   |
|           |            | 12      | 13        | 20.58   | 20.64   | 20.64   | 21.50   |
|           |            | 25      | 0         | 20.59   | 20.59   | 20.55   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.56   | 20.61   | 20.63   | 21.50   |
|           |            | 1       | 13        | 20.54   | 20.64   | 20.57   | 21.50   |
|           |            | 1       | 24        | 20.55   | 20.60   | 20.58   | 21.50   |
|           |            | 12      | 0         | 19.63   | 19.63   | 19.60   | 20.50   |
|           |            | 12      | 6         | 19.56   | 19.58   | 19.54   | 20.50   |
|           |            | 12      | 13        | 19.64   | 19.64   | 19.62   | 20.50   |
|           |            | 25      | 0         | 19.59   | 19.57   | 19.56   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 20525   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 21.74   | /       | 22.50   |
|           |            | 1       | 25        | /       | 21.65   | /       | 22.50   |
|           |            | 1       | 49        | /       | 21.61   | /       | 22.50   |
|           |            | 25      | 0         | /       | 20.85   | /       | 21.50   |
|           |            | 25      | 13        | /       | 20.81   | /       | 21.50   |
|           |            | 25      | 25        | /       | 20.77   | /       | 21.50   |
|           |            | 50      | 0         | /       | 20.80   | /       | 21.50   |
|           | 16QAM      | 1       | 0         | /       | 20.84   | /       | 21.50   |
|           |            | 1       | 25        | /       | 20.80   | /       | 21.50   |
|           |            | 1       | 49        | /       | 20.79   | /       | 21.50   |
|           |            | 25      | 0         | /       | 19.85   | /       | 20.50   |
|           |            | 25      | 13        | /       | 19.76   | /       | 20.50   |
|           |            | 25      | 25        | /       | 19.75   | /       | 20.50   |
|           |            | 50      | 0         | /       | 19.80   | /       | 20.50   |

| LTE Band 7 Sensor off |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth             | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                       |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                  | QPSK       | 1       | 0         | 22.49                | 22.45   | 22.45   | 23.50   |
|                       |            | 1       | 13        | 22.53                | 22.50   | 22.48   | 23.50   |
|                       |            | 1       | 24        | 22.54                | 22.48   | 22.49   | 23.50   |
|                       |            | 12      | 0         | 21.50                | 21.46   | 21.46   | 22.50   |
|                       |            | 12      | 6         | 21.47                | 21.45   | 21.46   | 22.50   |
|                       |            | 12      | 13        | 21.46                | 21.55   | 21.45   | 22.50   |
|                       |            | 25      | 0         | 21.51                | 21.48   | 21.52   | 22.50   |
|                       | 16QAM      | 1       | 0         | 21.45                | 21.53   | 21.54   | 22.50   |
|                       |            | 1       | 13        | 21.52                | 21.49   | 21.50   | 22.50   |
|                       |            | 1       | 24        | 21.51                | 21.48   | 21.52   | 22.50   |

|           |            | 12      | 0         | 20.51   | 20.53   | 20.50   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 6         | 20.52   | 20.53   | 20.46   | 21.50   |
|           |            | 12      | 13        | 20.48   | 20.48   | 20.49   | 21.50   |
|           |            | 25      | 0         | 20.52   | 20.46   | 20.45   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20800   | 21100   | 21400   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.39   | 22.41   | 22.40   | 23.50   |
|           |            | 1       | 25        | 22.39   | 22.33   | 22.40   | 23.50   |
|           |            | 1       | 49        | 22.35   | 22.33   | 22.40   | 23.50   |
|           |            | 25      | 0         | 21.37   | 21.57   | 21.48   | 22.50   |
|           |            | 25      | 13        | 21.44   | 21.40   | 21.48   | 22.50   |
|           |            | 25      | 25        | 21.43   | 21.41   | 21.45   | 22.50   |
|           | 16QAM      | 50      | 0         | 21.37   | 21.44   | 21.44   | 22.50   |
|           |            | 1       | 0         | 21.51   | 21.46   | 21.38   | 22.50   |
|           |            | 1       | 25        | 21.40   | 21.43   | 21.37   | 22.50   |
|           |            | 1       | 49        | 21.40   | 21.47   | 21.51   | 22.50   |
|           |            | 25      | 0         | 20.50   | 20.43   | 20.41   | 21.50   |
|           |            | 25      | 13        | 20.49   | 20.41   | 20.48   | 21.50   |
|           |            | 25      | 25        | 20.33   | 20.34   | 20.45   | 21.50   |
|           |            | 50      | 0         | 20.47   | 20.45   | 20.46   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.38   | 22.46   | 22.41   | 23.50   |
|           |            | 1       | 38        | 22.41   | 22.31   | 22.32   | 23.50   |
|           |            | 1       | 74        | 22.33   | 22.37   | 22.41   | 23.50   |
|           |            | 36      | 0         | 21.45   | 21.59   | 21.51   | 22.50   |
|           |            | 36      | 18        | 21.40   | 21.40   | 21.47   | 22.50   |
|           |            | 36      | 39        | 21.40   | 21.47   | 21.43   | 22.50   |
|           | 16QAM      | 75      | 0         | 21.38   | 21.35   | 21.47   | 22.50   |
|           |            | 1       | 0         | 21.45   | 21.46   | 21.43   | 22.50   |
|           |            | 1       | 38        | 21.38   | 21.45   | 21.45   | 22.50   |
|           |            | 1       | 74        | 21.47   | 21.43   | 21.50   | 22.50   |
|           |            | 36      | 0         | 20.47   | 20.43   | 20.43   | 21.50   |
|           |            | 36      | 18        | 20.51   | 20.44   | 20.39   | 21.50   |
|           |            | 36      | 39        | 20.41   | 20.43   | 20.48   | 21.50   |
|           |            | 75      | 0         | 20.45   | 20.42   | 20.49   | 21.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.46   | 22.53   | 22.49   | 23.50   |
|           |            | 1       | 50        | 22.49   | 22.43   | 22.46   | 23.50   |
|           |            | 1       | 99        | 22.47   | 22.44   | 22.48   | 23.50   |
|           |            | 50      | 0         | 21.52   | 21.69   | 21.60   | 22.50   |
|           |            | 50      | 25        | 21.51   | 21.54   | 21.55   | 22.50   |
|           |            | 50      | 50        | 21.55   | 21.55   | 21.53   | 22.50   |
|           | 16QAM      | 100     | 0         | 21.52   | 21.49   | 21.52   | 22.50   |
|           |            | 1       | 0         | 21.59   | 21.54   | 21.52   | 22.50   |
|           |            | 1       | 50        | 21.54   | 21.57   | 21.51   | 22.50   |
|           |            | 1       | 99        | 21.56   | 21.58   | 21.58   | 22.50   |
|           |            | 50      | 0         | 20.57   | 20.50   | 20.49   | 21.50   |
|           |            | 50      | 25        | 20.59   | 20.54   | 20.55   | 21.50   |
|           |            | 50      | 50        | 20.49   | 20.50   | 20.53   | 21.50   |
|           |            | 100     | 0         | 20.57   | 20.52   | 20.59   | 21.50   |

| LTE Band 7 Sensor on |            |         |           | Conducted Power(dBm) |         |         |         |
|----------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth            | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                      |            |         |           | 20775                | 21100   | 21425   |         |
| 5MHz                 | QPSK       | 1       | 0         | 19.33                | 19.34   | 19.40   | 20.50   |
|                      |            | 1       | 13        | 19.30                | 19.26   | 19.43   | 20.50   |
|                      |            | 1       | 24        | 19.31                | 19.39   | 19.36   | 20.50   |
|                      |            | 12      | 0         | 19.35                | 19.54   | 19.56   | 20.50   |
|                      |            | 12      | 6         | 19.45                | 19.39   | 19.54   | 20.50   |
|                      |            | 12      | 13        | 19.48                | 19.39   | 19.48   | 20.50   |

|           | 16QAM      | 25      | 0         | 19.51   | 19.36   | 19.37   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 19.43   | 19.53   | 19.42   | 20.50   |
|           |            | 1       | 13        | 19.47   | 19.38   | 19.49   | 20.50   |
|           |            | 1       | 24        | 19.50   | 19.53   | 19.54   | 20.50   |
|           |            | 12      | 0         | 19.57   | 19.47   | 19.49   | 20.50   |
|           |            | 12      | 6         | 19.58   | 19.47   | 19.47   | 20.50   |
|           |            | 12      | 13        | 19.40   | 19.41   | 19.52   | 20.50   |
|           |            | 25      | 0         | 19.48   | 19.49   | 19.49   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20800   | 21100   | 21400   |         |
| 10MHz     | QPSK       | 1       | 0         | 19.44   | 19.44   | 19.33   | 20.50   |
|           |            | 1       | 25        | 19.30   | 19.36   | 19.42   | 20.50   |
|           |            | 1       | 49        | 19.41   | 19.37   | 19.38   | 20.50   |
|           |            | 25      | 0         | 19.32   | 19.64   | 19.58   | 20.50   |
|           |            | 25      | 13        | 19.46   | 19.37   | 19.46   | 20.50   |
|           |            | 25      | 25        | 19.52   | 19.39   | 19.45   | 20.50   |
|           |            | 50      | 0         | 19.33   | 19.41   | 19.39   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.40   | 19.44   | 19.33   | 20.50   |
|           |            | 1       | 25        | 19.50   | 19.53   | 19.39   | 20.50   |
|           |            | 1       | 49        | 19.55   | 19.45   | 19.55   | 20.50   |
|           |            | 25      | 0         | 19.43   | 19.35   | 19.40   | 20.50   |
|           |            | 25      | 13        | 19.42   | 19.43   | 19.43   | 20.50   |
|           |            | 25      | 25        | 19.32   | 19.43   | 19.41   | 20.50   |
|           |            | 50      | 0         | 19.46   | 19.41   | 19.57   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20825   | 21100   | 21375   |         |
| 15MHz     | QPSK       | 1       | 0         | 19.39   | 19.35   | 19.48   | 20.50   |
|           |            | 1       | 38        | 19.40   | 19.35   | 19.36   | 20.50   |
|           |            | 1       | 74        | 19.29   | 19.40   | 19.29   | 20.50   |
|           |            | 36      | 0         | 19.36   | 19.50   | 19.60   | 20.50   |
|           |            | 36      | 18        | 19.49   | 19.54   | 19.35   | 20.50   |
|           |            | 36      | 39        | 19.35   | 19.38   | 19.36   | 20.50   |
|           |            | 75      | 0         | 19.41   | 19.32   | 19.48   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.40   | 19.51   | 19.47   | 20.50   |
|           |            | 1       | 38        | 19.41   | 19.53   | 19.40   | 20.50   |
|           |            | 1       | 74        | 19.46   | 19.44   | 19.40   | 20.50   |
|           |            | 36      | 0         | 19.43   | 19.42   | 19.36   | 20.50   |
|           |            | 36      | 18        | 19.57   | 19.45   | 19.44   | 20.50   |
|           |            | 36      | 39        | 19.38   | 19.31   | 19.41   | 20.50   |
|           |            | 75      | 0         | 19.41   | 19.47   | 19.55   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 20850   | 21100   | 21350   |         |
| 20MHz     | QPSK       | 1       | 0         | 19.84   | 19.89   | 19.83   | 20.50   |
|           |            | 1       | 50        | 19.85   | 19.80   | 19.81   | 20.50   |
|           |            | 1       | 99        | 19.74   | 19.85   | 19.74   | 20.50   |
|           |            | 50      | 0         | 19.71   | 19.85   | 19.85   | 20.50   |
|           |            | 50      | 25        | 19.84   | 19.69   | 19.80   | 20.50   |
|           |            | 50      | 50        | 19.70   | 19.73   | 19.81   | 20.50   |
|           |            | 100     | 0         | 19.76   | 19.67   | 19.82   | 20.50   |
|           | 16QAM      | 1       | 0         | 19.75   | 19.86   | 19.75   | 20.50   |
|           |            | 1       | 50        | 19.76   | 19.88   | 19.85   | 20.50   |
|           |            | 1       | 99        | 19.81   | 19.79   | 19.85   | 20.50   |
|           |            | 50      | 0         | 19.78   | 19.77   | 19.81   | 20.50   |
|           |            | 50      | 25        | 19.72   | 19.80   | 19.84   | 20.50   |
|           |            | 50      | 50        | 19.73   | 19.66   | 19.86   | 20.50   |
|           |            | 100     | 0         | 19.76   | 19.78   | 19.79   | 20.50   |

| LTE FDD Band 12 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | 23017                | 23095   | 23173   |         |
| 1.4MHz          | QPSK       | 1       | 0         | 21.47                | 21.43   | 21.32   | 22.50   |
|                 |            | 1       | 2         | 21.36                | 21.35   | 21.43   | 22.50   |

|           |            | 1       | 5         | 21.38            | 21.45            | 21.39            | 22.50   |
|-----------|------------|---------|-----------|------------------|------------------|------------------|---------|
|           |            | 3       | 0         | 21.37            | 21.48            | 21.32            | 22.50   |
|           |            | 3       | 2         | 21.40            | 21.47            | 21.46            | 22.50   |
|           |            | 3       | 3         | 21.44            | 21.35            | 21.40            | 22.50   |
|           |            | 6       | 0         | 20.34            | 20.41            | 20.41            | 21.50   |
|           | 16QAM      | 1       | 0         | 20.50            | 20.35            | 20.36            | 21.50   |
|           |            | 1       | 2         | 20.46            | 20.37            | 20.30            | 21.50   |
|           |            | 1       | 5         | 20.37            | 20.39            | 20.36            | 21.50   |
|           |            | 3       | 0         | 20.43            | 20.39            | 20.44            | 21.50   |
|           |            | 3       | 2         | 20.36            | 20.32            | 20.37            | 21.50   |
|           |            | 3       | 3         | 20.26            | 20.34            | 20.36            | 21.50   |
|           |            | 6       | 0         | 19.40            | 19.42            | 19.30            | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>23025 | Channel<br>23095 | Channel<br>23165 | Tune up |
| 3MHz      | QPSK       | 1       | 0         | 21.27            | 21.42            | 21.33            | 22.50   |
|           |            | 1       | 7         | 21.31            | 21.26            | 21.31            | 22.50   |
|           |            | 1       | 14        | 21.39            | 21.24            | 21.38            | 22.50   |
|           |            | 8       | 0         | 20.26            | 20.47            | 20.45            | 21.50   |
|           |            | 8       | 4         | 20.35            | 20.38            | 20.43            | 21.50   |
|           |            | 8       | 7         | 20.39            | 20.41            | 20.39            | 21.50   |
|           | 16QAM      | 15      | 0         | 20.43            | 20.34            | 20.25            | 21.50   |
|           |            | 1       | 0         | 20.44            | 20.42            | 20.37            | 21.50   |
|           |            | 1       | 7         | 20.44            | 20.34            | 20.37            | 21.50   |
|           |            | 1       | 14        | 20.37            | 20.51            | 20.36            | 21.50   |
|           |            | 8       | 0         | 19.38            | 19.42            | 19.28            | 20.50   |
|           |            | 8       | 4         | 19.45            | 19.42            | 19.51            | 20.50   |
|           |            | 8       | 7         | 19.38            | 19.24            | 19.33            | 20.50   |
|           |            | 15      | 0         | 19.46            | 19.40            | 19.47            | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>23035 | Channel<br>23095 | Channel<br>23155 | Tune up |
| 5MHz      | QPSK       | 1       | 0         | 21.26            | 21.44            | 21.40            | 22.50   |
|           |            | 1       | 13        | 21.27            | 21.25            | 21.29            | 22.50   |
|           |            | 1       | 24        | 21.38            | 21.28            | 21.40            | 22.50   |
|           |            | 12      | 0         | 20.30            | 20.52            | 20.44            | 21.50   |
|           |            | 12      | 6         | 20.36            | 20.39            | 20.45            | 21.50   |
|           |            | 12      | 13        | 20.40            | 20.41            | 20.38            | 21.50   |
|           | 16QAM      | 25      | 0         | 20.37            | 20.37            | 20.25            | 21.50   |
|           |            | 1       | 0         | 20.43            | 20.37            | 20.38            | 21.50   |
|           |            | 1       | 13        | 20.40            | 20.40            | 20.41            | 21.50   |
|           |            | 1       | 24        | 20.30            | 20.47            | 20.31            | 21.50   |
|           |            | 12      | 0         | 19.38            | 19.42            | 19.33            | 20.50   |
|           |            | 12      | 6         | 19.44            | 19.35            | 19.51            | 20.50   |
|           |            | 12      | 13        | 19.36            | 19.27            | 19.31            | 20.50   |
|           |            | 25      | 0         | 19.49            | 19.37            | 19.42            | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>/     | Channel<br>23095 | Channel<br>/     | Tune up |
| 10MHz     | QPSK       | 1       | 0         | /                | 21.58            | /                | 22.50   |
|           |            | 1       | 25        | /                | 21.37            | /                | 22.50   |
|           |            | 1       | 49        | /                | 21.37            | /                | 22.50   |
|           |            | 25      | 0         | /                | 20.87            | /                | 21.50   |
|           |            | 25      | 13        | /                | 20.52            | /                | 21.50   |
|           |            | 25      | 25        | /                | 20.52            | /                | 21.50   |
|           |            | 50      | 0         | /                | 20.44            | /                | 21.50   |
|           | 16QAM      | 1       | 0         | /                | 20.47            | /                | 21.50   |
|           |            | 1       | 25        | /                | 20.46            | /                | 21.50   |
|           |            | 1       | 49        | /                | 20.60            | /                | 21.50   |
|           |            | 25      | 0         | /                | 19.52            | /                | 20.50   |
|           |            | 25      | 13        | /                | 19.49            | /                | 20.50   |
|           |            | 25      | 25        | /                | 19.34            | /                | 20.50   |
|           |            | 50      | 0         | /                | 19.50            | /                | 20.50   |

LTE FDD Band 13

Conducted Power(dBm)

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | /       | 23230   | /       |         |
| 5MHz      | QPSK       | 1       | 0         | /       | 21.66   | /       | 22.50   |
|           |            | 1       | 13        | /       | 21.46   | /       | 22.50   |
|           |            | 1       | 24        | /       | 21.67   | /       | 22.50   |
|           |            | 12      | 0         | /       | 20.66   | /       | 21.50   |
|           |            | 12      | 6         | /       | 20.59   | /       | 21.50   |
|           |            | 12      | 13        | /       | 20.55   | /       | 21.50   |
|           |            | 25      | 0         | /       | 20.59   | /       | 21.50   |
|           | 16QAM      | 1       | 0         | /       | 20.64   | /       | 21.50   |
|           |            | 1       | 13        | /       | 20.65   | /       | 21.50   |
|           |            | 1       | 24        | /       | 20.55   | /       | 21.50   |
|           |            | 12      | 0         | /       | 19.69   | /       | 20.50   |
|           |            | 12      | 6         | /       | 19.65   | /       | 20.50   |
|           |            | 12      | 13        | /       | 19.73   | /       | 20.50   |
|           |            | 25      | 0         | /       | 19.57   | /       | 20.50   |
|           |            |         |           |         |         |         |         |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 23230   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 21.71   | /       | 22.50   |
|           |            | 1       | 25        | /       | 21.55   | /       | 22.50   |
|           |            | 1       | 49        | /       | 21.52   | /       | 22.50   |
|           |            | 25      | 0         | /       | 20.88   | /       | 21.50   |
|           |            | 25      | 13        | /       | 20.69   | /       | 21.50   |
|           |            | 25      | 25        | /       | 20.63   | /       | 21.50   |
|           |            | 50      | 0         | /       | 20.76   | /       | 21.50   |
|           | 16QAM      | 1       | 0         | /       | 20.77   | /       | 21.50   |
|           |            | 1       | 25        | /       | 20.72   | /       | 21.50   |
|           |            | 1       | 49        | /       | 20.77   | /       | 21.50   |
|           |            | 25      | 0         | /       | 19.82   | /       | 20.50   |
|           |            | 25      | 13        | /       | 19.73   | /       | 20.50   |
|           |            | 25      | 25        | /       | 19.86   | /       | 20.50   |
|           |            | 50      | 0         | /       | 19.76   | /       | 20.50   |
|           |            |         |           |         |         |         |         |

| LTE FDD Band 17 |            |         |           | Conducted Power(dBm) |         |         |         |
|-----------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | /                    | 23790   | /       |         |
| 5MHz            | QPSK       | 1       | 0         | /                    | 21.12   | /       | 22.00   |
|                 |            | 1       | 13        | /                    | 21.04   | /       | 22.00   |
|                 |            | 1       | 24        | /                    | 21.18   | /       | 22.00   |
|                 |            | 12      | 0         | /                    | 20.25   | /       | 21.00   |
|                 |            | 12      | 6         | /                    | 20.23   | /       | 21.00   |
|                 |            | 12      | 13        | /                    | 20.14   | /       | 21.00   |
|                 |            | 25      | 0         | /                    | 20.32   | /       | 21.00   |
|                 | 16QAM      | 1       | 0         | /                    | 20.29   | /       | 21.00   |
|                 |            | 1       | 13        | /                    | 20.05   | /       | 21.00   |
|                 |            | 1       | 24        | /                    | 20.24   | /       | 21.00   |
|                 |            | 12      | 0         | /                    | 19.26   | /       | 20.00   |
|                 |            | 12      | 6         | /                    | 19.29   | /       | 20.00   |
|                 |            | 12      | 13        | /                    | 19.37   | /       | 20.00   |
|                 |            | 25      | 0         | /                    | 19.19   | /       | 20.00   |
|                 |            |         |           |                      |         |         |         |
| Bandwidth       | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                 |            |         |           | /                    | 23790   | /       |         |
| 10MHz           | QPSK       | 1       | 0         | /                    | 21.24   | /       | 22.00   |
|                 |            | 1       | 25        | /                    | 21.19   | /       | 22.00   |
|                 |            | 1       | 49        | /                    | 21.11   | /       | 22.00   |
|                 |            | 25      | 0         | /                    | 20.63   | /       | 21.00   |
|                 |            | 25      | 13        | /                    | 20.16   | /       | 21.00   |
|                 |            | 25      | 25        | /                    | 20.14   | /       | 21.00   |
|                 |            | 50      | 0         | /                    | 20.19   | /       | 21.00   |
|                 | 16QAM      | 1       | 0         | /                    | 20.21   | /       | 21.00   |
|                 |            | 1       | 25        | /                    | 20.22   | /       | 21.00   |
|                 |            | 1       | 49        | /                    | 20.13   | /       | 21.00   |
|                 |            |         |           |                      |         |         |         |

|  |  |    |    |   |       |   |       |
|--|--|----|----|---|-------|---|-------|
|  |  | 25 | 0  | / | 19.30 | / | 20.00 |
|  |  | 25 | 13 | / | 19.30 | / | 20.00 |
|  |  | 25 | 25 | / | 19.35 | / | 20.00 |
|  |  | 50 | 0  | / | 19.21 | / | 20.00 |

| LTE Band 26 |            |         |           | Conducted Power(dBm) |                  |                  |         |
|-------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth   | Modulation | RB size | RB offset | Channel<br>26697     | Channel<br>26865 | Channel<br>27033 | Tune up |
| 1.4MHz      | QPSK       | 1       | 0         | 21.40                | 21.42            | 21.39            | 22.50   |
|             |            | 1       | 2         | 21.40                | 21.34            | 21.39            | 22.50   |
|             |            | 1       | 5         | 21.44                | 21.37            | 21.35            | 22.50   |
|             |            | 3       | 0         | 21.37                | 21.45            | 21.38            | 22.50   |
|             |            | 3       | 2         | 21.36                | 21.36            | 21.36            | 22.50   |
|             |            | 3       | 3         | 21.40                | 21.41            | 21.41            | 22.50   |
|             | 16QAM      | 6       | 0         | 20.39                | 20.35            | 20.35            | 21.50   |
|             |            | 1       | 0         | 20.41                | 20.41            | 20.37            | 21.50   |
|             |            | 1       | 2         | 20.43                | 20.35            | 20.40            | 21.50   |
|             |            | 1       | 5         | 20.43                | 20.40            | 20.42            | 21.50   |
|             |            | 3       | 0         | 20.36                | 20.40            | 20.41            | 21.50   |
|             |            | 3       | 2         | 20.40                | 20.44            | 20.37            | 21.50   |
| 3MHz        | QPSK       | 3       | 3         | 20.41                | 20.42            | 20.40            | 21.50   |
|             |            | 6       | 0         | 19.42                | 19.36            | 19.42            | 20.50   |
|             | 16QAM      | 1       | 0         | 21.42                | 21.42            | 21.37            | 22.50   |
|             |            | 1       | 7         | 21.26                | 21.24            | 21.25            | 22.50   |
|             |            | 1       | 14        | 21.34                | 21.44            | 21.36            | 22.50   |
|             |            | 8       | 0         | 20.34                | 20.50            | 20.32            | 21.50   |
| 5MHz        | QPSK       | 8       | 4         | 20.48                | 20.35            | 20.38            | 21.50   |
|             |            | 8       | 7         | 20.28                | 20.33            | 20.31            | 21.50   |
|             |            | 15      | 0         | 20.41                | 20.34            | 20.46            | 21.50   |
|             | 16QAM      | 1       | 0         | 20.43                | 20.45            | 20.54            | 21.50   |
|             |            | 1       | 7         | 20.31                | 20.47            | 20.26            | 21.50   |
|             |            | 1       | 14        | 20.49                | 20.37            | 20.44            | 21.50   |
| 10MHz       | QPSK       | 8       | 0         | 19.42                | 19.52            | 19.52            | 20.50   |
|             |            | 8       | 4         | 19.42                | 19.39            | 19.45            | 20.50   |
|             |            | 8       | 7         | 19.50                | 19.57            | 19.51            | 20.50   |
|             |            | 15      | 0         | 19.46                | 19.37            | 19.45            | 20.50   |
|             | 16QAM      | 1       | 0         | 21.40                | 21.44            | 21.38            | 22.50   |
|             |            | 1       | 13        | 21.27                | 21.27            | 21.26            | 22.50   |
| 10MHz       | QPSK       | 1       | 24        | 21.29                | 21.46            | 21.41            | 22.50   |
|             |            | 12      | 0         | 20.35                | 20.49            | 20.42            | 21.50   |
|             |            | 12      | 6         | 20.43                | 20.31            | 20.44            | 21.50   |
|             |            | 12      | 13        | 20.30                | 20.34            | 20.30            | 21.50   |
|             |            | 25      | 0         | 20.34                | 20.32            | 20.55            | 21.50   |
|             | 16QAM      | 1       | 0         | 20.41                | 20.46            | 20.53            | 21.50   |
| 10MHz       | QPSK       | 1       | 13        | 20.25                | 20.39            | 20.28            | 21.50   |
|             |            | 1       | 24        | 20.52                | 20.40            | 20.40            | 21.50   |
|             |            | 12      | 0         | 19.43                | 19.50            | 19.44            | 20.50   |
|             |            | 12      | 6         | 19.42                | 19.44            | 19.40            | 20.50   |
|             |            | 12      | 13        | 19.44                | 19.59            | 19.52            | 20.50   |
|             |            | 25      | 0         | 19.42                | 19.35            | 19.39            | 20.50   |

|           | 16QAM      | 50      | 0         | 20.37   | 20.37   | 20.52   | 21.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 0         | 20.44   | 20.42   | 20.51   | 21.50   |
|           |            | 1       | 25        | 20.23   | 20.47   | 20.30   | 21.50   |
|           |            | 1       | 49        | 20.43   | 20.39   | 20.41   | 21.50   |
|           |            | 25      | 0         | 19.42   | 19.52   | 19.46   | 20.50   |
|           |            | 25      | 13        | 19.40   | 19.41   | 19.47   | 20.50   |
|           |            | 25      | 25        | 19.49   | 19.56   | 19.60   | 20.50   |
|           |            | 50      | 0         | 19.44   | 19.33   | 19.37   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
| 15MHz     | QPSK       | 1       | 0         | /       | 26865   | /       |         |
|           |            | 1       | 38        | /       | 21.52   | /       | 22.50   |
|           |            | 1       | 74        | /       | 21.33   | /       | 22.50   |
|           |            | 36      | 0         | /       | 21.49   | /       | 22.50   |
|           |            | 36      | 18        | /       | 20.72   | /       | 21.50   |
|           |            | 36      | 39        | /       | 20.63   | /       | 21.50   |
|           |            | 75      | 0         | /       | 20.58   | /       | 21.50   |
|           | 16QAM      | 1       | 0         | /       | 20.61   | /       | 21.50   |
|           |            | 1       | 38        | /       | 20.63   | /       | 21.50   |
|           |            | 1       | 74        | /       | 20.42   | /       | 21.50   |
|           |            | 36      | 0         | /       | 20.56   | /       | 21.50   |
|           |            | 36      | 18        | /       | 19.58   | /       | 20.50   |
|           |            | 36      | 39        | /       | 19.54   | /       | 20.50   |
|           |            | 36      | 39        | /       | 19.66   | /       | 20.50   |
|           |            | 75      | 0         | /       | 19.66   | /       | 20.50   |
|           |            | 75      | 0         | /       | 19.53   | /       | 20.50   |

| LTE Band 25 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
| 1.4MHz      | QPSK       | 1       | 0         | 26047                | 26365   | 26683   |         |
|             |            | 1       | 2         | 21.76                | 21.75   | 21.77   | 22.50   |
|             |            | 1       | 5         | 21.78                | 21.78   | 21.75   | 22.50   |
|             |            | 3       | 0         | 21.77                | 21.72   | 21.76   | 22.50   |
|             |            | 3       | 2         | 21.73                | 21.77   | 21.79   | 22.50   |
|             |            | 3       | 3         | 21.77                | 21.73   | 21.75   | 22.50   |
|             |            | 6       | 0         | 21.77                | 21.72   | 21.74   | 22.50   |
|             | 16QAM      | 1       | 0         | 20.82                | 20.75   | 20.82   | 21.50   |
|             |            | 1       | 2         | 20.74                | 20.79   | 20.76   | 21.50   |
|             |            | 1       | 5         | 20.85                | 20.79   | 20.84   | 21.50   |
|             |            | 3       | 0         | 20.81                | 20.75   | 20.80   | 21.50   |
|             |            | 3       | 2         | 20.80                | 20.80   | 20.82   | 21.50   |
|             |            | 3       | 3         | 20.82                | 20.84   | 20.80   | 21.50   |
|             |            | 6       | 0         | 20.76                | 20.78   | 20.84   | 21.50   |
| 3MHz        | QPSK       | 1       | 0         | 19.83                | 19.78   | 19.77   | 20.50   |
|             |            | 1       | 7         | Channel              | Channel | Channel |         |
|             |            | 1       | 14        | 26055                | 26365   | 26675   |         |
|             |            | 8       | 0         | 21.58                | 21.76   | 21.58   | 22.50   |
|             |            | 8       | 4         | 21.74                | 21.59   | 21.59   | 22.50   |
|             |            | 8       | 7         | 21.67                | 21.71   | 21.72   | 22.50   |
|             |            | 15      | 0         | 21.67                | 21.71   | 21.72   | 22.50   |
|             | 16QAM      | 1       | 0         | 20.89                | 21.09   | 20.92   | 21.50   |
|             |            | 1       | 7         | 20.70                | 20.62   | 20.70   | 21.50   |
|             |            | 1       | 14        | 20.58                | 20.73   | 20.69   | 21.50   |
|             |            | 8       | 0         | 20.66                | 20.69   | 20.64   | 21.50   |
|             |            | 8       | 4         | 20.69                | 20.70   | 20.76   | 21.50   |
|             |            | 8       | 7         | 20.57                | 20.76   | 20.61   | 21.50   |
|             |            | 15      | 0         | 20.63                | 20.71   | 20.74   | 21.50   |
| 5MHz        | QPSK       | 1       | 0         | 19.78                | 19.68   | 19.61   | 20.50   |
|             |            | 1       | 13        | 19.65                | 19.72   | 19.66   | 20.50   |
|             |            | 8       | 4         | 19.63                | 19.67   | 19.69   | 20.50   |
|             |            | 8       | 7         | 19.79                | 19.74   | 19.73   | 20.50   |
|             |            | 15      | 0         | Channel              | Channel | Channel |         |
|             |            | 1       | 0         | 26065                | 26365   | 26665   |         |
|             |            | 1       | 13        | 21.58                | 21.79   | 21.64   | 22.50   |
|             | 16QAM      | 1       | 0         | 21.63                | 21.63   | 21.56   | 22.50   |
|             |            | 1       | 13        | 21.58                | 21.79   | 21.64   | 22.50   |
|             |            | 8       | 4         | 21.63                | 21.63   | 21.56   | 22.50   |
|             |            | 8       | 7         | 21.58                | 21.79   | 21.64   | 22.50   |
|             |            | 15      | 0         | 21.63                | 21.63   | 21.56   | 22.50   |
|             |            | 1       | 0         | 21.58                | 21.79   | 21.64   | 22.50   |
|             |            | 1       | 13        | 21.63                | 21.63   | 21.56   | 22.50   |

|           |            | 1       | 24        | 21.71   | 21.64   | 21.64   | 22.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 0         | 20.95   | 21.08   | 20.95   | 21.50   |
|           |            | 12      | 6         | 20.62   | 20.60   | 20.75   | 21.50   |
|           |            | 12      | 13        | 20.60   | 20.64   | 20.71   | 21.50   |
|           |            | 25      | 0         | 20.64   | 20.69   | 20.62   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.69   | 20.64   | 20.79   | 21.50   |
|           |            | 1       | 13        | 20.56   | 20.71   | 20.65   | 21.50   |
|           |            | 1       | 24        | 20.63   | 20.68   | 20.73   | 21.50   |
|           |            | 12      | 0         | 19.73   | 19.68   | 19.66   | 20.50   |
|           |            | 12      | 6         | 19.66   | 19.80   | 19.64   | 20.50   |
|           |            | 12      | 13        | 19.61   | 19.57   | 19.69   | 20.50   |
|           |            | 25      | 0         | 19.76   | 19.69   | 19.67   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 26090   | 26365   | 26640   |         |
| 10MHz     | QPSK       | 1       | 0         | 21.66   | 21.71   | 21.61   | 22.50   |
|           |            | 1       | 25        | 21.71   | 21.65   | 21.57   | 22.50   |
|           |            | 1       | 49        | 21.61   | 21.63   | 21.74   | 22.50   |
|           |            | 25      | 0         | 20.91   | 21.12   | 20.98   | 21.50   |
|           |            | 25      | 13        | 20.67   | 20.63   | 20.67   | 21.50   |
|           |            | 25      | 25        | 20.61   | 20.68   | 20.73   | 21.50   |
|           | 16QAM      | 50      | 0         | 20.63   | 20.70   | 20.68   | 21.50   |
|           |            | 1       | 0         | 20.69   | 20.73   | 20.80   | 21.50   |
|           |            | 1       | 25        | 20.56   | 20.73   | 20.68   | 21.50   |
|           |            | 1       | 49        | 20.62   | 20.64   | 20.78   | 21.50   |
|           |            | 25      | 0         | 19.75   | 19.69   | 19.70   | 20.50   |
|           |            | 25      | 13        | 19.65   | 19.74   | 19.63   | 20.50   |
| 15MHz     | QPSK       | 25      | 25        | 19.66   | 19.64   | 19.67   | 20.50   |
|           |            | 50      | 0         | 19.68   | 19.65   | 19.72   | 20.50   |
|           | 16QAM      | 1       | 0         | 21.65   | 21.70   | 21.60   | 22.50   |
|           |            | 1       | 38        | 21.70   | 21.65   | 21.63   | 22.50   |
|           |            | 1       | 74        | 21.62   | 21.68   | 21.73   | 22.50   |
|           |            | 36      | 0         | 20.96   | 21.10   | 20.95   | 21.50   |
| 10MHz     | QPSK       | 36      | 18        | 20.63   | 20.67   | 20.67   | 21.50   |
|           |            | 36      | 39        | 20.61   | 20.63   | 20.72   | 21.50   |
|           |            | 75      | 0         | 20.68   | 20.70   | 20.69   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.74   | 20.68   | 20.81   | 21.50   |
|           |            | 1       | 38        | 20.59   | 20.72   | 20.63   | 21.50   |
|           |            | 1       | 74        | 20.68   | 20.67   | 20.78   | 21.50   |
| 15MHz     | QPSK       | 36      | 0         | 19.67   | 19.63   | 19.63   | 20.50   |
|           |            | 36      | 18        | 19.65   | 19.74   | 19.70   | 20.50   |
|           |            | 36      | 39        | 19.67   | 19.61   | 19.66   | 20.50   |
|           |            | 75      | 0         | 19.76   | 19.74   | 19.71   | 20.50   |
|           | 16QAM      | 1       | 0         | 21.73   | 21.85   | 21.73   | 22.50   |
|           |            | 1       | 50        | 21.79   | 21.73   | 21.71   | 22.50   |
| 20MHz     | QPSK       | 1       | 99        | 21.77   | 21.77   | 21.80   | 22.50   |
|           |            | 50      | 0         | 21.02   | 21.20   | 21.06   | 21.50   |
|           |            | 50      | 25        | 20.76   | 20.74   | 20.81   | 21.50   |
|           |            | 50      | 50        | 20.69   | 20.78   | 20.81   | 21.50   |
|           |            | 100     | 0         | 20.76   | 20.82   | 20.76   | 21.50   |
|           | 16QAM      | 1       | 0         | 20.81   | 20.79   | 20.88   | 21.50   |
|           |            | 1       | 50        | 20.70   | 20.83   | 20.76   | 21.50   |
|           |            | 1       | 99        | 20.78   | 20.78   | 20.84   | 21.50   |
|           |            | 50      | 0         | 19.83   | 19.79   | 19.75   | 20.50   |
|           |            | 50      | 25        | 19.80   | 19.87   | 19.79   | 20.50   |
|           |            | 50      | 50        | 19.77   | 19.73   | 19.80   | 20.50   |
|           |            | 100     | 0         | 19.84   | 19.79   | 19.81   | 20.50   |

| LTE FDD Band 30 Sensor off | Conducted Power(dBm) |
|----------------------------|----------------------|
|----------------------------|----------------------|

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            |         |           | /       | 27710   | /       |         |
| 5MHz      | QPSK       | 1       | 0         | /       | 22.18   | /       | 23.00   |
|           |            | 1       | 13        | /       | 22.05   | /       | 23.00   |
|           |            | 1       | 24        | /       | 22.04   | /       | 23.00   |
|           |            | 12      | 0         | /       | 21.28   | /       | 22.00   |
|           |            | 12      | 6         | /       | 21.04   | /       | 22.00   |
|           |            | 12      | 13        | /       | 21.10   | /       | 22.00   |
|           |            | 25      | 0         | /       | 21.10   | /       | 22.00   |
|           | 16QAM      | 1       | 0         | /       | 21.08   | /       | 22.00   |
|           |            | 1       | 13        | /       | 21.07   | /       | 22.00   |
|           |            | 1       | 24        | /       | 20.99   | /       | 22.00   |
|           |            | 12      | 0         | /       | 20.19   | /       | 21.00   |
|           |            | 12      | 6         | /       | 20.26   | /       | 21.00   |
|           |            | 12      | 13        | /       | 20.18   | /       | 21.00   |
|           |            | 25      | 0         | /       | 20.09   | /       | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 27710   | /       |         |
| 10MHz     | QPSK       | 1       | 0         | /       | 22.25   | /       | 23.00   |
|           |            | 1       | 25        | /       | 22.13   | /       | 23.00   |
|           |            | 1       | 49        | /       | 22.14   | /       | 23.00   |
|           |            | 25      | 0         | /       | 21.35   | /       | 22.00   |
|           |            | 25      | 13        | /       | 21.18   | /       | 22.00   |
|           |            | 25      | 25        | /       | 21.17   | /       | 22.00   |
|           |            | 50      | 0         | /       | 21.19   | /       | 22.00   |
|           | 16QAM      | 1       | 0         | /       | 21.20   | /       | 22.00   |
|           |            | 1       | 25        | /       | 21.21   | /       | 22.00   |
|           |            | 1       | 49        | /       | 21.07   | /       | 22.00   |
|           |            | 25      | 0         | /       | 20.24   | /       | 21.00   |
|           |            | 25      | 13        | /       | 20.33   | /       | 21.00   |
|           |            | 25      | 25        | /       | 20.32   | /       | 21.00   |
|           |            | 50      | 0         | /       | 20.17   | /       | 21.00   |

| LTE FDD Band 30 Sensor on |            |         |           | Conducted Power(dBm) |         |         |         |
|---------------------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth                 | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                           |            |         |           | /                    | 27710   | /       |         |
| 5MHz                      | QPSK       | 1       | 0         | /                    | 20.66   | /       | 21.00   |
|                           |            | 1       | 13        | /                    | 20.46   | /       | 21.00   |
|                           |            | 1       | 24        | /                    | 20.54   | /       | 21.00   |
|                           |            | 12      | 0         | /                    | 20.61   | /       | 21.00   |
|                           |            | 12      | 6         | /                    | 20.43   | /       | 21.00   |
|                           |            | 12      | 13        | /                    | 20.56   | /       | 21.00   |
|                           |            | 25      | 0         | /                    | 20.50   | /       | 21.00   |
|                           | 16QAM      | 1       | 0         | /                    | 20.62   | /       | 21.00   |
|                           |            | 1       | 13        | /                    | 20.63   | /       | 21.00   |
|                           |            | 1       | 24        | /                    | 20.47   | /       | 21.00   |
|                           |            | 12      | 0         | /                    | 20.53   | /       | 21.00   |
|                           |            | 12      | 6         | /                    | 20.48   | /       | 21.00   |
|                           |            | 12      | 13        | /                    | 20.64   | /       | 21.00   |
|                           |            | 25      | 0         | /                    | 20.45   | /       | 21.00   |
| Bandwidth                 | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|                           |            |         |           | /                    | 27710   | /       |         |
| 10MHz                     | QPSK       | 1       | 0         | /                    | 20.75   | /       | 21.00   |
|                           |            | 1       | 25        | /                    | 20.71   | /       | 21.00   |
|                           |            | 1       | 49        | /                    | 20.65   | /       | 21.00   |
|                           |            | 25      | 0         | /                    | 20.68   | /       | 21.00   |
|                           |            | 25      | 13        | /                    | 20.43   | /       | 21.00   |
|                           |            | 25      | 25        | /                    | 20.56   | /       | 21.00   |
|                           |            | 50      | 0         | /                    | 20.50   | /       | 21.00   |
|                           | 16QAM      | 1       | 0         | /                    | 20.62   | /       | 21.00   |
|                           |            | 1       | 25        | /                    | 20.63   | /       | 21.00   |
|                           |            | 1       | 49        | /                    | 20.47   | /       | 21.00   |

|  |  |    |    |   |       |   |       |
|--|--|----|----|---|-------|---|-------|
|  |  | 25 | 0  | / | 20.53 | / | 21.00 |
|  |  | 25 | 13 | / | 20.71 | / | 21.00 |
|  |  | 25 | 25 | / | 20.74 | / | 21.00 |
|  |  | 50 | 0  | / | 20.45 | / | 21.00 |

| LTE Band 66 |            |         |           | Conducted Power(dBm) |                   |                   |         |
|-------------|------------|---------|-----------|----------------------|-------------------|-------------------|---------|
| Bandwidth   | Modulation | RB size | RB offset | Channel<br>131979    | Channel<br>132322 | Channel<br>132665 | Tune up |
| 1.4MHz      | QPSK       | 1       | 0         | 21.80                | 21.74             | 21.83             | 22.50   |
|             |            | 1       | 2         | 21.82                | 21.80             | 21.72             | 22.50   |
|             |            | 1       | 5         | 21.79                | 21.74             | 21.71             | 22.50   |
|             |            | 3       | 0         | 21.71                | 21.82             | 21.76             | 22.50   |
|             |            | 3       | 1         | 21.76                | 21.74             | 21.79             | 22.50   |
|             |            | 3       | 3         | 21.77                | 21.69             | 21.80             | 22.50   |
|             | 16QAM      | 6       | 0         | 20.82                | 20.79             | 20.78             | 21.50   |
|             |            | 1       | 0         | 20.77                | 20.78             | 20.82             | 21.50   |
|             |            | 1       | 2         | 20.86                | 20.76             | 20.89             | 21.50   |
|             |            | 1       | 5         | 20.79                | 20.74             | 20.78             | 21.50   |
|             |            | 3       | 0         | 20.79                | 20.85             | 20.79             | 21.50   |
|             |            | 3       | 1         | 20.82                | 20.85             | 20.83             | 21.50   |
| 3MHz        | QPSK       | 3       | 3         | 20.73                | 20.77             | 20.80             | 21.50   |
|             |            | 6       | 0         | 19.81                | 19.75             | 19.77             | 20.50   |
|             | 16QAM      | 1       | 0         | 21.72                | 21.83             | 21.69             | 22.50   |
|             |            | 1       | 7         | 21.70                | 21.75             | 21.71             | 22.50   |
|             |            | 1       | 14        | 21.79                | 21.71             | 21.68             | 22.50   |
|             |            | 8       | 0         | 21.01                | 20.74             | 20.95             | 21.50   |
|             | 16QAM      | 8       | 4         | 20.74                | 20.69             | 20.79             | 21.50   |
|             |            | 8       | 7         | 20.65                | 20.72             | 20.86             | 21.50   |
|             |            | 15      | 0         | 20.74                | 20.73             | 20.68             | 21.50   |
|             |            | 1       | 0         | 20.69                | 20.68             | 20.84             | 21.50   |
|             |            | 1       | 7         | 20.71                | 20.69             | 20.66             | 21.50   |
|             |            | 1       | 14        | 20.81                | 20.73             | 20.73             | 21.50   |
| 5MHz        | QPSK       | 8       | 0         | 19.77                | 19.76             | 19.66             | 20.50   |
|             |            | 8       | 4         | 19.77                | 19.84             | 19.72             | 20.50   |
|             |            | 8       | 7         | 19.74                | 19.62             | 19.75             | 20.50   |
|             |            | 15      | 0         | 19.85                | 19.72             | 19.73             | 20.50   |
|             | 16QAM      | 1       | 0         | 21.74                | 21.75             | 21.67             | 22.50   |
|             |            | 1       | 13        | 21.76                | 21.73             | 21.71             | 22.50   |
|             |            | 1       | 24        | 21.72                | 21.71             | 21.63             | 22.50   |
|             |            | 12      | 0         | 20.96                | 20.80             | 20.97             | 21.50   |
|             |            | 12      | 6         | 20.72                | 20.66             | 20.79             | 21.50   |
|             |            | 12      | 13        | 20.61                | 20.80             | 20.78             | 21.50   |
| 10MHz       | QPSK       | 25      | 0         | 20.73                | 20.73             | 20.66             | 21.50   |
|             |            | 1       | 0         | 20.70                | 20.70             | 20.85             | 21.50   |
|             |            | 1       | 13        | 20.71                | 20.74             | 20.66             | 21.50   |
|             |            | 1       | 24        | 20.79                | 20.69             | 20.80             | 21.50   |
|             |            | 12      | 0         | 19.78                | 19.80             | 19.71             | 20.50   |
|             |            | 12      | 6         | 19.83                | 19.77             | 19.70             | 20.50   |
|             | 16QAM      | 12      | 13        | 19.68                | 19.66             | 19.81             | 20.50   |
|             |            | 25      | 0         | 19.77                | 19.81             | 19.81             | 20.50   |
|             |            | 1       | 0         | 21.75                | 21.74             | 21.77             | 22.50   |
|             |            | 1       | 25        | 21.70                | 21.70             | 21.72             | 22.50   |
|             |            | 1       | 49        | 21.69                | 21.67             | 21.67             | 22.50   |
|             |            | 25      | 0         | 20.96                | 20.76             | 20.94             | 21.50   |
|             |            | 25      | 13        | 20.67                | 20.61             | 20.77             | 21.50   |
|             |            | 25      | 25        | 20.68                | 20.79             | 20.81             | 21.50   |
|             |            | 25      | 25        | 20.68                | 20.79             | 20.81             | 21.50   |

|           | 16QAM      | 50      | 0         | 20.68             | 20.68             | 20.73             | 21.50   |
|-----------|------------|---------|-----------|-------------------|-------------------|-------------------|---------|
|           |            | 1       | 0         | 20.68             | 20.65             | 20.79             | 21.50   |
|           |            | 1       | 25        | 20.72             | 20.76             | 20.71             | 21.50   |
|           |            | 1       | 49        | 20.72             | 20.70             | 20.80             | 21.50   |
|           |            | 25      | 0         | 19.81             | 19.80             | 19.65             | 20.50   |
|           |            | 25      | 13        | 19.76             | 19.82             | 19.67             | 20.50   |
|           |            | 25      | 25        | 19.64             | 19.65             | 19.75             | 20.50   |
|           |            | 50      | 0         | 19.78             | 19.73             | 19.80             | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>132047 | Channel<br>132322 | Channel<br>132597 | Tune up |
| 15MHz     | QPSK       | 1       | 0         | 21.80             | 21.81             | 21.69             | 22.50   |
|           |            | 1       | 38        | 21.69             | 21.66             | 21.71             | 22.50   |
|           |            | 1       | 74        | 21.77             | 21.68             | 21.64             | 22.50   |
|           |            | 36      | 0         | 21.02             | 20.74             | 20.98             | 21.50   |
|           |            | 36      | 18        | 20.71             | 20.66             | 20.76             | 21.50   |
|           |            | 36      | 39        | 20.72             | 20.78             | 20.77             | 21.50   |
|           |            | 75      | 0         | 20.69             | 20.75             | 20.70             | 21.50   |
|           | 16QAM      | 1       | 0         | 20.74             | 20.71             | 20.85             | 21.50   |
|           |            | 1       | 38        | 20.70             | 20.74             | 20.69             | 21.50   |
|           |            | 1       | 74        | 20.77             | 20.67             | 20.81             | 21.50   |
|           |            | 36      | 0         | 19.77             | 19.83             | 19.72             | 20.50   |
|           |            | 36      | 18        | 19.81             | 19.86             | 19.70             | 20.50   |
|           |            | 36      | 39        | 19.65             | 19.71             | 19.74             | 20.50   |
|           |            | 75      | 0         | 19.79             | 19.81             | 19.75             | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel<br>132072 | Channel<br>132322 | Channel<br>132572 | Tune up |
| 20MHz     | QPSK       | 1       | 0         | 21.86             | 21.89             | 21.83             | 22.50   |
|           |            | 1       | 50        | 21.84             | 21.81             | 21.79             | 22.50   |
|           |            | 1       | 99        | 21.85             | 21.82             | 21.75             | 22.50   |
|           |            | 50      | 0         | 20.81             | 20.85             | 20.76             | 21.50   |
|           |            | 50      | 25        | 20.79             | 20.74             | 20.85             | 21.50   |
|           |            | 50      | 50        | 20.77             | 20.82             | 20.71             | 21.50   |
|           |            | 100     | 0         | 20.81             | 20.82             | 20.82             | 21.50   |
|           | 16QAM      | 1       | 0         | 20.83             | 20.81             | 20.91             | 21.50   |
|           |            | 1       | 50        | 20.78             | 20.83             | 20.80             | 21.50   |
|           |            | 1       | 99        | 20.87             | 20.79             | 20.87             | 21.50   |
|           |            | 50      | 0         | 19.88             | 19.89             | 19.78             | 20.50   |
|           |            | 50      | 25        | 19.89             | 19.93             | 19.82             | 20.50   |
|           |            | 50      | 50        | 19.79             | 19.76             | 19.88             | 20.50   |
|           |            | 100     | 0         | 19.92             | 19.87             | 19.89             | 20.50   |

| LTE Band 38 |            |         |           | Conducted Power(dBm) |                  |                  |         |
|-------------|------------|---------|-----------|----------------------|------------------|------------------|---------|
| Bandwidth   | Modulation | RB size | RB offset | Channel<br>37775     | Channel<br>38000 | Channel<br>38225 | Tune up |
| 5MHz        | QPSK       | 1       | 0         | 22.25                | 22.28            | 22.24            | 23.00   |
|             |            | 1       | 13        | 22.31                | 22.21            | 22.18            | 23.00   |
|             |            | 1       | 24        | 22.25                | 22.27            | 22.20            | 23.00   |
|             |            | 12      | 0         | 21.50                | 21.27            | 21.44            | 22.00   |
|             |            | 12      | 6         | 21.17                | 21.13            | 21.31            | 22.00   |
|             |            | 12      | 13        | 21.16                | 21.33            | 21.37            | 22.00   |
|             |            | 25      | 0         | 21.24                | 21.22            | 21.21            | 22.00   |
|             | 16QAM      | 1       | 0         | 21.26                | 21.23            | 21.29            | 22.00   |
|             |            | 1       | 13        | 21.23                | 21.22            | 21.16            | 22.00   |
|             |            | 1       | 24        | 21.25                | 21.15            | 21.33            | 22.00   |
|             |            | 12      | 0         | 20.28                | 20.27            | 20.23            | 21.00   |
|             |            | 12      | 6         | 20.29                | 20.31            | 20.19            | 21.00   |
|             |            | 12      | 13        | 20.23                | 20.23            | 20.34            | 21.00   |
|             |            | 25      | 0         | 20.35                | 20.25            | 20.31            | 21.00   |
| Bandwidth   | Modulation | RB size | RB offset | Channel<br>37800     | Channel<br>38000 | Channel<br>38200 | Tune up |
| 10MHz       | QPSK       | 1       | 0         | 22.26                | 22.29            | 22.24            | 23.00   |
|             |            | 1       | 25        | 22.25                | 22.22            | 22.19            | 23.00   |

|           |            |         |           |         |         |         |         |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 1       | 49        | 22.23   | 22.26   | 22.22   | 23.00   |
|           |            | 25      | 0         | 21.48   | 21.23   | 21.50   | 22.00   |
|           |            | 25      | 13        | 21.16   | 21.15   | 21.21   | 22.00   |
|           |            | 25      | 25        | 21.15   | 21.31   | 21.27   | 22.00   |
|           |            | 50      | 0         | 21.19   | 21.19   | 21.26   | 22.00   |
|           | 16QAM      | 1       | 0         | 21.28   | 21.17   | 21.34   | 22.00   |
|           |            | 1       | 25        | 21.20   | 21.26   | 21.24   | 22.00   |
|           |            | 1       | 49        | 21.30   | 21.21   | 21.30   | 22.00   |
|           |            | 25      | 0         | 20.29   | 20.31   | 20.17   | 21.00   |
|           |            | 25      | 13        | 20.26   | 20.39   | 20.28   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 37825   | 38000   | 38175   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.25   | 22.31   | 22.22   | 23.00   |
|           |            | 1       | 38        | 22.27   | 22.23   | 22.26   | 23.00   |
|           |            | 1       | 74        | 22.27   | 22.28   | 22.19   | 23.00   |
|           |            | 36      | 0         | 21.54   | 21.31   | 21.51   | 22.00   |
|           |            | 36      | 18        | 21.21   | 21.12   | 21.27   | 22.00   |
|           |            | 36      | 39        | 21.21   | 21.27   | 21.32   | 22.00   |
|           | 16QAM      | 75      | 0         | 21.24   | 21.28   | 21.24   | 22.00   |
|           |            | 1       | 0         | 21.24   | 21.28   | 21.38   | 22.00   |
|           |            | 1       | 38        | 21.23   | 21.21   | 21.25   | 22.00   |
|           |            | 1       | 74        | 21.28   | 21.15   | 21.34   | 22.00   |
|           |            | 36      | 0         | 20.29   | 20.29   | 20.23   | 21.00   |
|           |            | 36      | 18        | 20.35   | 20.34   | 20.24   | 21.00   |
|           |            | 36      | 39        | 20.22   | 20.23   | 20.32   | 21.00   |
|           |            | 75      | 0         | 20.36   | 20.29   | 20.27   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 38000   | /       |         |
| 20MHz     | QPSK       | 1       | 0         | /       | 22.42   | /       | 23.00   |
|           |            | 1       | 50        | /       | 22.38   | /       | 23.00   |
|           |            | 1       | 99        | /       | 22.39   | /       | 23.00   |
|           |            | 50      | 0         | /       | 21.55   | /       | 22.00   |
|           |            | 50      | 25        | /       | 21.35   | /       | 22.00   |
|           |            | 50      | 50        | /       | 21.39   | /       | 22.00   |
|           | 16QAM      | 100     | 0         | /       | 21.35   | /       | 22.00   |
|           |            | 1       | 0         | /       | 21.34   | /       | 22.00   |
|           |            | 1       | 50        | /       | 21.30   | /       | 22.00   |
|           |            | 1       | 99        | /       | 21.32   | /       | 22.00   |
|           |            | 50      | 0         | /       | 20.37   | /       | 21.00   |
|           |            | 50      | 25        | /       | 20.41   | /       | 21.00   |
|           |            | 50      | 50        | /       | 20.29   | /       | 21.00   |
|           |            | 100     | 0         | /       | 20.34   | /       | 21.00   |

| LTE Band 41 2496 - 2690 |            |         |           | 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         | 22.19                | 22.29   | 22.34   | 22.31   | 22.19   | 23.00   |
|                         |            | 1       | 13        | 22.12                | 22.09   | 22.24   | 22.22   | 22.26   | 23.00   |
|                         |            | 1       | 24        | 22.29                | 22.11   | 22.20   | 22.20   | 22.21   | 23.00   |
|                         |            | 12      | 0         | 21.29                | 21.23   | 21.30   | 21.17   | 21.07   | 22.00   |
|                         |            | 12      | 6         | 21.26                | 21.16   | 21.28   | 21.15   | 21.21   | 22.00   |
|                         |            | 12      | 13        | 21.23                | 21.29   | 21.10   | 21.10   | 21.15   | 22.00   |
|                         | 16QAM      | 25      | 0         | 21.16                | 21.16   | 21.20   | 21.25   | 21.22   | 22.00   |
|                         |            | 1       | 0         | 21.21                | 21.18   | 21.33   | 21.25   | 21.27   | 22.00   |
|                         |            | 1       | 13        | 21.20                | 21.16   | 21.18   | 21.18   | 21.16   | 22.00   |
|                         |            | 1       | 24        | 21.15                | 21.17   | 21.33   | 21.17   | 21.23   | 22.00   |
|                         |            | 12      | 0         | 20.43                | 20.43   | 20.31   | 20.27   | 20.27   | 21.00   |
|                         |            | 12      | 6         | 20.36                | 20.45   | 20.30   | 20.28   | 20.24   | 21.00   |
|                         |            | 12      | 13        | 20.25                | 20.31   | 20.34   | 20.41   | 20.36   | 21.00   |
|                         |            | 25      | 0         | 20.38                | 20.40   | 20.41   | 20.37   | 20.38   | 21.00   |

| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|-----------|------------|---------|-----------|---------|---------|---------|---------|---------|---------|
|           |            |         |           | 39700   | 40160   | 40620   | 41080   | 41540   |         |
| 10MHz     | QPSK       | 1       | 0         | 22.24   | 22.23   | 22.41   | 22.35   | 22.24   | 23.00   |
|           |            | 1       | 25        | 22.16   | 22.03   | 22.17   | 22.22   | 22.18   | 23.00   |
|           |            | 1       | 49        | 22.20   | 22.05   | 22.20   | 22.16   | 22.28   | 23.00   |
|           |            | 25      | 0         | 21.24   | 21.31   | 21.26   | 21.18   | 21.12   | 22.00   |
|           |            | 25      | 13        | 21.20   | 21.25   | 21.28   | 21.11   | 21.28   | 22.00   |
|           |            | 25      | 25        | 21.24   | 21.26   | 21.17   | 21.11   | 21.13   | 22.00   |
|           |            | 50      | 0         | 21.17   | 21.21   | 21.16   | 21.19   | 21.23   | 22.00   |
|           | 16QAM      | 1       | 0         | 21.25   | 21.15   | 21.38   | 21.33   | 21.28   | 22.00   |
|           |            | 1       | 25        | 21.18   | 21.15   | 21.08   | 21.24   | 21.17   | 22.00   |
|           |            | 1       | 49        | 21.24   | 21.18   | 21.23   | 21.24   | 21.29   | 22.00   |
|           |            | 25      | 0         | 20.41   | 20.37   | 20.26   | 20.27   | 20.20   | 21.00   |
|           |            | 25      | 13        | 20.40   | 20.40   | 20.30   | 20.28   | 20.29   | 21.00   |
|           |            | 25      | 25        | 20.22   | 20.30   | 20.31   | 20.37   | 20.39   | 21.00   |
|           |            | 50      | 0         | 20.42   | 20.33   | 20.43   | 20.42   | 20.29   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39725   | 40173   | 40620   | 41068   | 41515   |         |
| 15MHz     | QPSK       | 1       | 0         | 22.22   | 22.21   | 22.39   | 22.32   | 22.18   | 23.00   |
|           |            | 1       | 38        | 22.11   | 22.00   | 22.16   | 22.23   | 22.18   | 23.00   |
|           |            | 1       | 74        | 22.21   | 22.16   | 22.21   | 22.15   | 22.28   | 23.00   |
|           |            | 36      | 0         | 21.23   | 21.22   | 21.28   | 21.12   | 21.14   | 22.00   |
|           |            | 36      | 18        | 21.20   | 21.16   | 21.21   | 21.18   | 21.29   | 22.00   |
|           |            | 36      | 39        | 21.31   | 21.28   | 21.17   | 21.15   | 21.10   | 22.00   |
|           |            | 75      | 0         | 21.15   | 21.24   | 21.20   | 21.26   | 21.23   | 22.00   |
|           | 16QAM      | 1       | 0         | 21.31   | 21.14   | 21.34   | 21.31   | 21.32   | 22.00   |
|           |            | 1       | 38        | 21.19   | 21.21   | 21.15   | 21.19   | 21.14   | 22.00   |
|           |            | 1       | 74        | 21.22   | 21.12   | 21.28   | 21.23   | 21.23   | 22.00   |
|           |            | 36      | 0         | 20.43   | 20.38   | 20.30   | 20.32   | 20.26   | 21.00   |
|           |            | 36      | 18        | 20.39   | 20.38   | 20.25   | 20.32   | 20.33   | 21.00   |
|           |            | 36      | 39        | 20.22   | 20.24   | 20.37   | 20.35   | 20.38   | 21.00   |
|           |            | 75      | 0         | 20.37   | 20.35   | 20.41   | 20.38   | 20.34   | 21.00   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Channel | Channel | Tune up |
|           |            |         |           | 39750   | 40185   | 40620   | 41055   | 41490   |         |
| 20MHz     | QPSK       | 1       | 0         | 22.39   | 22.35   | 22.48   | 22.44   | 22.36   | 23.00   |
|           |            | 1       | 50        | 22.23   | 22.14   | 22.32   | 22.34   | 22.32   | 23.00   |
|           |            | 1       | 99        | 22.32   | 22.21   | 22.30   | 22.30   | 22.31   | 23.00   |
|           |            | 50      | 0         | 21.35   | 21.38   | 21.41   | 21.27   | 21.22   | 22.00   |
|           |            | 50      | 25        | 21.34   | 21.32   | 21.35   | 21.24   | 21.35   | 22.00   |
|           |            | 50      | 50        | 21.37   | 21.36   | 21.25   | 21.25   | 21.22   | 22.00   |
|           |            | 100     | 0         | 21.30   | 21.32   | 21.35   | 21.32   | 21.32   | 22.00   |
|           | 16QAM      | 1       | 0         | 21.36   | 21.26   | 21.44   | 21.38   | 21.39   | 22.00   |
|           |            | 1       | 50        | 21.27   | 21.28   | 21.24   | 21.33   | 21.24   | 22.00   |
|           |            | 1       | 99        | 21.31   | 21.24   | 21.38   | 21.32   | 21.38   | 22.00   |
|           |            | 50      | 0         | 20.50   | 20.50   | 20.37   | 20.40   | 20.35   | 21.00   |
|           |            | 50      | 25        | 20.52   | 20.51   | 20.39   | 20.42   | 20.39   | 21.00   |
|           |            | 50      | 50        | 20.36   | 20.37   | 20.45   | 20.47   | 20.46   | 21.00   |
|           |            | 100     | 0         | 20.50   | 20.46   | 20.53   | 20.48   | 20.44   | 21.00   |

| LTE Band 71 |            |         |           | Conducted Power(dBm) |         |         |         |
|-------------|------------|---------|-----------|----------------------|---------|---------|---------|
| Bandwidth   | Modulation | RB size | RB offset | Channel              | Channel | Channel | Tune up |
|             |            |         |           | 133147               | 133297  | 133447  |         |
| 5MHz        | QPSK       | 1       | 0         | 21.35                | 21.45   | 21.19   | 22.50   |
|             |            | 1       | 13        | 21.16                | 21.19   | 21.04   | 22.50   |
|             |            | 1       | 24        | 21.25                | 21.25   | 21.11   | 22.50   |
|             |            | 12      | 0         | 20.17                | 20.23   | 20.24   | 21.50   |
|             |            | 12      | 6         | 20.09                | 20.19   | 20.2    | 21.50   |
|             |            | 12      | 13        | 20.19                | 20.19   | 20.26   | 21.50   |
|             |            | 25      | 0         | 20.14                | 20.29   | 20.27   | 21.50   |
|             | 16QAM      | 1       | 0         | 20.27                | 20.31   | 20.21   | 21.50   |
|             |            | 1       | 13        | 20.24                | 20.22   | 20.17   | 21.50   |
|             |            | 1       | 24        | 20.22                | 20.21   | 20.12   | 21.50   |

|           |            | 12      | 0         | 19.33   | 19.33   | 19.41   | 20.50   |
|-----------|------------|---------|-----------|---------|---------|---------|---------|
|           |            | 12      | 6         | 19.37   | 19.21   | 19.34   | 20.50   |
|           |            | 12      | 13        | 19.38   | 19.28   | 19.26   | 20.50   |
|           |            | 25      | 0         | 19.32   | 19.48   | 19.4    | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | 133172  | 133297  | 133422  |         |
| 10MHz     | QPSK       | 1       | 0         | 21.32   | 21.41   | 21.24   | 22.50   |
|           |            | 1       | 25        | 21.18   | 21.16   | 21.1    | 22.50   |
|           |            | 1       | 49        | 21.26   | 21.25   | 21.14   | 22.50   |
|           |            | 25      | 0         | 20.17   | 20.23   | 20.22   | 21.50   |
|           |            | 25      | 13        | 20.12   | 20.15   | 20.11   | 21.50   |
|           |            | 25      | 25        | 20.23   | 20.19   | 20.24   | 21.50   |
|           | 16QAM      | 50      | 0         | 20.16   | 20.29   | 20.25   | 21.50   |
|           |            | 1       | 0         | 20.26   | 20.32   | 20.19   | 21.50   |
|           |            | 1       | 25        | 20.27   | 20.23   | 20.14   | 21.50   |
|           |            | 1       | 49        | 20.27   | 20.26   | 20.11   | 21.50   |
|           |            | 25      | 0         | 19.34   | 19.33   | 19.4    | 20.50   |
|           |            | 25      | 13        | 19.39   | 19.28   | 19.37   | 20.50   |
|           |            | 25      | 25        | 19.33   | 19.29   | 19.26   | 20.50   |
|           |            | 50      | 0         | 19.36   | 19.39   | 19.38   | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 133297  | /       |         |
| 15MHz     | QPSK       | 1       | 0         | /       | 21.41   | /       | 22.50   |
|           |            | 1       | 38        | /       | 21.27   | /       | 22.50   |
|           |            | 1       | 74        | /       | 21.27   | /       | 22.50   |
|           |            | 36      | 0         | /       | 20.78   | /       | 21.50   |
|           |            | 36      | 18        | /       | 20.59   | /       | 21.50   |
|           |            | 36      | 39        | /       | 20.44   | /       | 21.50   |
|           | 16QAM      | 75      | 0         | /       | 20.25   | /       | 21.50   |
|           |            | 1       | 0         | /       | 20.32   | /       | 21.50   |
|           |            | 1       | 38        | /       | 20.09   | /       | 21.50   |
|           |            | 1       | 74        | /       | 20.23   | /       | 21.50   |
|           |            | 36      | 0         | /       | 19.37   | /       | 20.50   |
|           |            | 36      | 18        | /       | 19.28   | /       | 20.50   |
|           |            | 36      | 39        | /       | 19.31   | /       | 20.50   |
|           |            | 75      | 0         | /       | 19.47   | /       | 20.50   |
| Bandwidth | Modulation | RB size | RB offset | Channel | Channel | Channel | Tune up |
|           |            |         |           | /       | 133322  | /       |         |
| 20MHz     | QPSK       | 1       | 0         | /       | 21.52   | /       | 22.50   |
|           |            | 1       | 50        | /       | 21.41   | /       | 22.50   |
|           |            | 1       | 99        | /       | 21.38   | /       | 22.50   |
|           |            | 50      | 0         | /       | 20.85   | /       | 21.50   |
|           |            | 50      | 25        | /       | 20.65   | /       | 21.50   |
|           |            | 50      | 50        | /       | 20.53   | /       | 21.50   |
|           | 16QAM      | 100     | 0         | /       | 20.38   | /       | 21.50   |
|           |            | 1       | 0         | /       | 20.42   | /       | 21.50   |
|           |            | 1       | 50        | /       | 20.24   | /       | 21.50   |
|           |            | 1       | 99        | /       | 20.33   | /       | 21.50   |
|           |            | 50      | 0         | /       | 19.43   | /       | 20.50   |
|           |            | 50      | 25        | /       | 19.4    | /       | 20.50   |
|           |            | 50      | 50        | /       | 19.46   | /       | 20.50   |
|           |            | 100     | 0         | /       | 19.56   | /       | 20.50   |

## 2 Conducted Power of WIFI and Bluetooth

### Conducted Power of Bluetooth

| BT     |               | Average Conducted Power(dBm) |      |      | Tune up |
|--------|---------------|------------------------------|------|------|---------|
| Mode   | Channel       | 0                            | 39   | 78   |         |
| DH5    | GFSK          | 7.92                         | 8.19 | 7.75 | 9.00    |
| 2DH5   | $\pi/4$ DQPSK | 9.70                         | 9.81 | 9.28 | 10.50   |
| 3DH5   | 8DPSK         | 9.63                         | 8.95 | 9.45 | 10.50   |
| Mode   | Channel       | 0                            | 19   | 39   | Tune up |
| BLE 1M | GFSK          | 6.74                         | 7.14 | 6.93 | 8.00    |

### Conducted Power of Hyper WiFi

| Hyper WiFi |                |           |                     |         |
|------------|----------------|-----------|---------------------|---------|
| Mode       | Frequency(MHz) | Data Rate | Average Power (dBm) | Tune up |
| 802.11ah   | 903.5          | 1Mbps     | 23.29               | 24.50   |
|            | 915.5          |           | 23.94               | 24.50   |
|            | 926.5          |           | 23.87               | 24.50   |
| 802.11ah   | 905            | 2Mbps     | 23.10               | 24.50   |
|            | 915            |           | 23.88               | 24.50   |
|            | 925            |           | 23.36               | 24.50   |
| 802.11ah   | 906            | 4Mbps     | 22.77               | 23.00   |
|            | 914            |           | 22.49               | 23.00   |
|            | 922            |           | 22.42               | 23.00   |

### Conducted Power of WIFI 2.4G

| WIFI 2.4G       |         |                |           |                     |         |
|-----------------|---------|----------------|-----------|---------------------|---------|
| Mode            | Channel | Frequency(MHz) | Data Rate | Average Power (dBm) | Tune up |
| 802.11b         | 1       | 2412           | 1Mbps     | 18.09               | 19.50   |
|                 | 6       | 2437           |           | 18.37               | 19.50   |
|                 | 11      | 2462           |           | 18.67               | 19.50   |
| 802.11g         | 1       | 2412           | 6Mbps     | 17.75               | 18.50   |
|                 | 6       | 2437           |           | 17.62               | 18.50   |
|                 | 11      | 2462           |           | 17.84               | 18.50   |
| 802.11n<br>HT20 | 1       | 2412           | 6.5Mbps   | 16.57               | 17.50   |
|                 | 6       | 2437           |           | 16.45               | 17.50   |
|                 | 11      | 2462           |           | 16.73               | 17.50   |
| 802.11n<br>HT40 | 3       | 2422           | 13.5Mbps  | 14.67               | 15.50   |
|                 | 6       | 2437           |           | 14.47               | 15.50   |
|                 | 9       | 2452           |           | 14.70               | 15.50   |

### Conducted Power of WIFI 5G

| WIFI 5G      |                |         |                |           |                     |         |
|--------------|----------------|---------|----------------|-----------|---------------------|---------|
| 5GHz         |                | Channel | Frequency(MHz) | Data Rate | Average Power (dBm) | Tune up |
| 5GHz U-NII-1 | 802.11a        | 36      | 5180           | 6Mbps     | 16.15               | 17.00   |
|              |                | 40      | 5200           | 6Mbps     | 16.09               | 17.00   |
|              |                | 44      | 5220           | 6Mbps     | 16.22               | 17.00   |
|              |                | 48      | 5240           | 6Mbps     | 16.44               | 17.00   |
|              | 802.11n HT20   | 36      | 5180           | MCS0      | 16.23               | 17.00   |
|              |                | 40      | 5200           | MCS0      | 16.35               | 17.00   |
|              |                | 44      | 5220           | MCS0      | 16.09               | 17.00   |
|              |                | 48      | 5240           | MCS0      | 16.11               | 17.00   |
|              | 802.11n HT40   | 38      | 5190           | MCS0      | 13.27               | 14.00   |
|              |                | 46      | 5230           | MCS0      | 13.46               | 14.00   |
|              | 802.11ac VHT20 | 36      | 5180           | MCS0      | 15.93               | 17.00   |
|              |                | 40      | 5200           | MCS0      | 16.41               | 17.00   |

|               |                   |     |      |       |       |       |
|---------------|-------------------|-----|------|-------|-------|-------|
|               |                   | 44  | 5220 | MCS0  | 16.22 | 17.00 |
|               |                   | 48  | 5240 | MCS0  | 16.32 | 17.00 |
|               | 802.11ac<br>VHT40 | 38  | 5190 | MCS0  | 13.27 | 14.00 |
|               |                   | 46  | 5230 | MCS0  | 13.41 | 14.00 |
|               | 802.11ac<br>VHT80 | 42  | 5210 | MCS0  | 12.02 | 13.00 |
| 5GHz U-NII-2A | 802.11a           | 52  | 5260 | 6Mbps | 13.79 | 14.50 |
|               |                   | 56  | 5280 | 6Mbps | 13.71 | 14.50 |
|               |                   | 60  | 5300 | 6Mbps | 13.85 | 14.50 |
|               |                   | 64  | 5320 | 6Mbps | 13.59 | 14.50 |
|               | 802.11n<br>HT20   | 52  | 5260 | MCS0  | 13.52 | 14.50 |
|               |                   | 56  | 5280 | MCS0  | 13.55 | 14.50 |
|               |                   | 60  | 5300 | MCS0  | 13.43 | 14.50 |
|               |                   | 64  | 5320 | MCS0  | 13.19 | 14.50 |
|               | 802.11n<br>HT40   | 54  | 5270 | MCS0  | 13.26 | 14.00 |
|               |                   | 62  | 5310 | MCS0  | 13.33 | 14.00 |
|               | 802.11ac<br>VHT20 | 52  | 5260 | MCS0  | 16.56 | 17.50 |
|               |                   | 56  | 5280 | MCS0  | 16.44 | 17.50 |
|               |                   | 60  | 5300 | MCS0  | 17.00 | 17.50 |
|               |                   | 64  | 5320 | MCS0  | 16.45 | 17.50 |
|               | 802.11ac<br>VHT40 | 54  | 5270 | MCS0  | 13.68 | 14.50 |
|               |                   | 62  | 5310 | MCS0  | 13.56 | 14.50 |
|               | 802.11ac<br>VHT80 | 58  | 5290 | MCS0  | 10.69 | 11.50 |
| 5GHz UNII-2C  | 802.11a           | 100 | 5500 | 6Mbps | 13.84 | 15.00 |
|               |                   | 104 | 5520 | 6Mbps | 14.21 | 15.00 |
|               |                   | 108 | 5540 | 6Mbps | 14.15 | 15.00 |
|               |                   | 112 | 5560 | 6Mbps | 14.11 | 15.00 |
|               |                   | 116 | 5580 | 6Mbps | 14.27 | 15.00 |
|               |                   | 120 | 5600 | 6Mbps | 14.18 | 15.00 |
|               |                   | 124 | 5620 | 6Mbps | 14.05 | 15.00 |
|               |                   | 128 | 5640 | 6Mbps | 14.19 | 15.00 |
|               |                   | 132 | 5660 | 6Mbps | 14.22 | 15.00 |
|               |                   | 136 | 5680 | 6Mbps | 14.31 | 15.00 |
|               |                   | 140 | 5700 | 6Mbps | 14.45 | 15.00 |
|               |                   | 144 | 5720 | 6Mbps | 14.13 | 15.00 |
|               | 802.11n<br>HT20   | 100 | 5500 | MCS0  | 13.66 | 14.50 |
|               |                   | 104 | 5520 | MCS0  | 13.71 | 14.50 |
|               |                   | 108 | 5540 | MCS0  | 13.65 | 14.50 |
|               |                   | 112 | 5560 | MCS0  | 13.53 | 14.50 |
|               |                   | 116 | 5580 | MCS0  | 13.59 | 14.50 |
|               |                   | 120 | 5600 | MCS0  | 13.65 | 14.50 |
|               |                   | 124 | 5620 | MCS0  | 13.66 | 14.50 |
|               |                   | 128 | 5640 | MCS0  | 13.73 | 14.50 |
|               |                   | 132 | 5660 | MCS0  | 13.77 | 14.50 |
|               |                   | 136 | 5680 | MCS0  | 13.64 | 14.50 |
|               | 802.11n<br>HT40   | 140 | 5700 | MCS0  | 13.66 | 14.50 |
|               |                   | 144 | 5720 | MCS0  | 13.49 | 14.50 |
|               |                   | 102 | 5510 | MCS0  | 15.32 | 16.00 |
|               |                   | 110 | 5550 | MCS0  | 15.44 | 16.00 |
|               |                   | 118 | 5590 | MCS0  | 15.39 | 16.00 |
|               |                   | 126 | 5630 | MCS0  | 15.21 | 16.00 |
|               | 802.11ac<br>VHT20 | 134 | 5670 | MCS0  | 15.35 | 16.00 |
|               |                   | 142 | 5710 | MCS0  | 15.22 | 16.00 |
|               |                   | 100 | 5500 | MCS0  | 13.23 | 14.00 |
|               |                   | 104 | 5520 | MCS0  | 13.39 | 14.00 |
|               |                   | 108 | 5540 | MCS0  | 13.41 | 14.00 |
|               |                   | 112 | 5560 | MCS0  | 13.45 | 14.00 |
|               |                   | 116 | 5580 | MCS0  | 13.35 | 14.00 |
|               |                   | 120 | 5600 | MCS0  | 13.45 | 14.00 |
|               |                   | 124 | 5620 | MCS0  | 13.33 | 14.00 |
|               |                   | 128 | 5640 | MCS0  | 13.29 | 14.00 |
|               |                   | 132 | 5660 | MCS0  | 13.24 | 14.00 |

|             |                   |     |      |       |       |       |
|-------------|-------------------|-----|------|-------|-------|-------|
|             |                   | 136 | 5680 | MCS0  | 13.27 | 14.00 |
|             |                   | 140 | 5700 | MCS0  | 13.31 | 14.00 |
|             |                   | 144 | 5720 | MCS0  | 13.33 | 14.00 |
|             | 802.11ac<br>VHT40 | 102 | 5510 | MCS0  | 15.15 | 16.50 |
|             |                   | 110 | 5550 | MCS0  | 15.46 | 16.50 |
|             |                   | 118 | 5590 | MCS0  | 15.67 | 16.50 |
|             |                   | 126 | 5630 | MCS0  | 15.62 | 16.50 |
|             |                   | 134 | 5670 | MCS0  | 15.80 | 16.50 |
|             |                   | 142 | 5710 | MCS0  | 15.65 | 16.50 |
|             | 802.11ac<br>VHT80 | 106 | 5530 | MCS0  | 17.76 | 19.00 |
|             |                   | 122 | 5610 | MCS0  | 18.10 | 19.00 |
|             |                   | 138 | 5690 | MCS0  | 17.98 | 19.00 |
| 5GHz UNII-3 | 802.11a           | 149 | 5745 | 6Mbps | 10.34 | 11.00 |
|             |                   | 153 | 5765 | 6Mbps | 10.09 | 11.00 |
|             |                   | 157 | 5785 | 6Mbps | 10.18 | 11.00 |
|             |                   | 161 | 5805 | 6Mbps | 10.11 | 11.00 |
|             |                   | 165 | 5825 | 6Mbps | 9.73  | 11.00 |
|             |                   | 149 | 5745 | MCS0  | 10.19 | 11.00 |
|             | 802.11n<br>HT20   | 153 | 5765 | MCS0  | 10.06 | 11.00 |
|             |                   | 157 | 5785 | MCS0  | 10.22 | 11.00 |
|             |                   | 161 | 5805 | MCS0  | 10.18 | 11.00 |
|             |                   | 165 | 5825 | MCS0  | 10.14 | 11.00 |
|             | 802.11n<br>HT40   | 151 | 5755 | MCS0  | 10.05 | 11.00 |
|             |                   | 159 | 5795 | MCS0  | 10.06 | 11.00 |
|             | 802.11ac<br>VHT20 | 149 | 5745 | MCS0  | 10.11 | 11.00 |
|             |                   | 153 | 5765 | MCS0  | 10.01 | 11.00 |
|             |                   | 157 | 5785 | MCS0  | 10.06 | 11.00 |
|             |                   | 161 | 5805 | MCS0  | 10.05 | 11.00 |
|             |                   | 165 | 5825 | MCS0  | 9.73  | 11.00 |
|             | 802.11ac<br>VHT40 | 151 | 5755 | MCS0  | 10.74 | 11.00 |
|             |                   | 159 | 5795 | MCS0  | 10.29 | 11.00 |
|             | 802.11ac<br>VHT80 | 155 | 5775 | MCS0  | 9.94  | 11.00 |

- End of the Appendix -