



## **Radiated Spurious Emission**



&lt;EUT with Adapter 1 and Battery 1&gt;

**LTE Band 2**

| LTE Band 2 / 1.4MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 3700                 | -50.49          | -13              | -37.49                  | -71                     | -57.06                   | 1.67                       | 8.24                        | H                     |
|                            | 5555                 | -39.50          | -13              | -26.50                  | -66.13                  | -46.57                   | 2.66                       | 9.72                        | H                     |
|                            | 7403                 | -43.01          | -13              | -30.01                  | -76.24                  | -52.16                   | 2.46                       | 11.61                       | H                     |
|                            | 9251                 | -39.88          | -13              | -26.88                  | -77.3                   | -49.94                   | 2.54                       | 12.60                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3700                 | -50.78          | -13              | -37.78                  | -71.29                  | -57.35                   | 1.67                       | 8.24                        | V                     |
|                            | 5555                 | -45.07          | -13              | -32.07                  | -71.7                   | -52.14                   | 2.66                       | 9.72                        | V                     |
|                            | 7403                 | -47.00          | -13              | -34.00                  | -80.23                  | -56.15                   | 2.46                       | 11.61                       | V                     |
|                            | 9251                 | -43.34          | -13              | -30.34                  | -80.76                  | -53.4                    | 2.54                       | 12.60                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 3763                 | -50.87          | -13              | -37.87                  | -71.47                  | -57.5                    | 1.69                       | 8.32                        | H                     |
|                            | 5639                 | -41.86          | -13              | -28.86                  | -68.74                  | -48.91                   | 2.71                       | 9.76                        | H                     |
|                            | 7522                 | -44.31          | -13              | -31.31                  | -77.75                  | -53.7                    | 2.42                       | 11.81                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3763                 | -53.32          | -13              | -40.32                  | -73.92                  | -59.95                   | 1.69                       | 8.32                        | V                     |
|                            | 5639                 | -47.55          | -13              | -34.55                  | -74.43                  | -54.6                    | 2.71                       | 9.76                        | V                     |
|                            | 7522                 | -46.64          | -13              | -33.64                  | -80.08                  | -56.03                   | 2.42                       | 11.81                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3819 | -49.35 | -13 | -36.35 | -70.03 | -56.03 | 1.70 | 8.38  | H |
|         | 5730 | -45.60 | -13 | -32.60 | -72.75 | -52.63 | 2.76 | 9.79  | H |
|         | 7634 | -42.77 | -13 | -29.77 | -76.37 | -52.26 | 2.39 | 11.88 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3819 | -52.47 | -13 | -39.47 | -73.15 | -59.15 | 1.70 | 8.38  | V |
|         | 5730 | -48.20 | -13 | -35.20 | -75.35 | -55.23 | 2.76 | 9.79  | V |
|         | 7634 | -44.20 | -13 | -31.20 | -77.8  | -53.69 | 2.39 | 11.88 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 3MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3707                 | -50.36          | -13              | -37.36                  | -70.87                  | -56.94                   | 1.67                       | 8.25                        | H                     |
|                          | 5555                 | -38.23          | -13              | -25.23                  | -64.86                  | -45.3                    | 2.66                       | 9.72                        | H                     |
|                          | 7410                 | -41.71          | -13              | -28.71                  | -74.94                  | -50.87                   | 2.46                       | 11.62                       | H                     |
|                          | 9258                 | -39.26          | -13              | -26.26                  | -76.76                  | -49.32                   | 2.54                       | 12.60                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3707                 | -51.09          | -13              | -38.09                  | -71.6                   | -57.67                   | 1.67                       | 8.25                        | V                     |
|                          | 5555                 | -42.07          | -13              | -29.07                  | -68.7                   | -49.14                   | 2.66                       | 9.72                        | V                     |
|                          | 7410                 | -46.54          | -13              | -33.54                  | -79.77                  | -55.7                    | 2.46                       | 11.62                       | V                     |
|                          | 9258                 | -43.33          | -13              | -30.33                  | -80.83                  | -53.39                   | 2.54                       | 12.60                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                   | 3763                 | -49.71          | -13              | -36.71                  | -70.38                  | -56.34                   | 1.69                       | 8.32                        | H                     |
|                          | 5639                 | -40.01          | -13              | -27.01                  | -67.16                  | -47.06                   | 2.71                       | 9.76                        | H                     |
|                          | 7522                 | -42.33          | -13              | -29.33                  | -75.56                  | -51.72                   | 2.42                       | 11.81                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3763                 | -51.49          | -13              | -38.49                  | -72.48                  | -58.12                   | 1.69                       | 8.32                        | V                     |
|                          | 5639                 | -41.66          | -13              | -28.66                  | -68.73                  | -48.71                   | 2.71                       | 9.76                        | V                     |
|                          | 7522                 | -46.04          | -13              | -33.04                  | -80.16                  | -55.43                   | 2.42                       | 11.81                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3819 | -48.11 | -13 | -35.11 | -68.79 | -54.79 | 1.70 | 8.38  | H |
|         | 5723 | -43.22 | -13 | -30.22 | -70.37 | -50.26 | 2.75 | 9.79  | H |
|         | 7634 | -41.03 | -13 | -28.03 | -74.63 | -50.52 | 2.39 | 11.88 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3819 | -52.15 | -13 | -39.15 | -72.83 | -58.83 | 1.70 | 8.38  | V |
|         | 5723 | -44.12 | -13 | -31.12 | -71.27 | -51.16 | 2.75 | 9.79  | V |
|         | 7634 | -43.89 | -13 | -30.89 | -77.49 | -53.38 | 2.39 | 11.88 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 5MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3700                 | -53.71          | -13              | -40.71                  | -74.14                  | -60.28                   | 1.67                       | 8.24                        | H                     |
|                          | 5555                 | -43.95          | -13              | -30.95                  | -69.78                  | -51.02                   | 2.66                       | 9.72                        | H                     |
|                          | 7403                 | -46.79          | -13              | -33.79                  | -79.34                  | -55.94                   | 2.46                       | 11.61                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3700                 | -53.58          | -13              | -40.58                  | -74.26                  | -60.15                   | 1.67                       | 8.24                        | V                     |
|                          | 5555                 | -46.26          | -13              | -33.26                  | -73.56                  | -53.33                   | 2.66                       | 9.72                        | V                     |
|                          | 7403                 | -47.14          | -13              | -34.14                  | -80.44                  | -56.29                   | 2.46                       | 11.61                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                   | 3756                 | -50.64          | -13              | -37.64                  | -71.23                  | -57.26                   | 1.68                       | 8.31                        | H                     |
|                          | 5632                 | -39.28          | -13              | -26.28                  | -66.6                   | -46.33                   | 2.70                       | 9.75                        | H                     |
|                          | 7515                 | -41.69          | -13              | -28.69                  | -74.62                  | -51.07                   | 2.42                       | 11.81                       | H                     |
|                          | 9391                 | -41.64          | -13              | -28.64                  | -80.06                  | -51.62                   | 2.57                       | 12.54                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3756                 | -52.60          | -13              | -39.60                  | -73.38                  | -59.22                   | 1.68                       | 8.31                        | V                     |
|                          | 5632                 | -41.01          | -13              | -28.01                  | -68.58                  | -48.06                   | 2.70                       | 9.75                        | V                     |
|                          | 7515                 | -45.79          | -13              | -32.79                  | -79.17                  | -55.17                   | 2.42                       | 11.81                       | V                     |
|                          | 9391                 | -42.10          | -13              | -29.10                  | -81.2                   | -52.08                   | 2.57                       | 12.54                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3819 | -48.60 | -13 | -35.60 | -68.7  | -55.28 | 1.70 | 8.38  | H |
|         | 5730 | -42.14 | -13 | -29.14 | -69.15 | -49.17 | 2.76 | 9.79  | H |
|         | 7641 | -39.55 | -13 | -26.55 | -73.48 | -49.05 | 2.38 | 11.88 | H |
|         | 9552 | -40.50 | -13 | -27.50 | -79.75 | -50.37 | 2.60 | 12.47 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3819 | -51.57 | -13 | -38.57 | -74.42 | -58.25 | 1.70 | 8.38  | V |
|         | 5730 | -40.58 | -13 | -27.58 | -67.38 | -47.61 | 2.76 | 9.79  | V |
|         | 7641 | -41.44 | -13 | -28.44 | -75.62 | -50.94 | 2.38 | 11.88 | V |
|         | 9552 | -41.46 | -13 | -28.46 | -80.9  | -51.33 | 2.60 | 12.47 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 10MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3714                 | -49.69          | -13              | -36.69                  | -70.48                  | -56.28                   | 1.67                       | 8.26                        | H                     |
|                           | 5569                 | -42.27          | -13              | -29.27                  | -68.76                  | -49.33                   | 2.66                       | 9.73                        | H                     |
|                           | 7424                 | -41.71          | -13              | -28.71                  | -74.94                  | -50.9                    | 2.45                       | 11.65                       | H                     |
|                           | 9279                 | -39.06          | -13              | -26.06                  | -76.96                  | -49.11                   | 2.54                       | 12.59                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3714                 | -52.64          | -13              | -39.64                  | -72.78                  | -59.23                   | 1.67                       | 8.26                        | V                     |
|                           | 5569                 | -46.66          | -13              | -33.66                  | -72.75                  | -53.72                   | 2.66                       | 9.73                        | V                     |
|                           | 7424                 | -45.89          | -13              | -32.89                  | -78.79                  | -55.08                   | 2.45                       | 11.65                       | V                     |
|                           | 9279                 | -42.04          | -13              | -29.04                  | -80.15                  | -52.09                   | 2.54                       | 12.59                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3763                 | -49.58          | -13              | -36.58                  | -69.68                  | -56.21                   | 1.69                       | 8.32                        | H                     |
|                           | 5639                 | -43.64          | -13              | -30.64                  | -69.93                  | -50.69                   | 2.71                       | 9.76                        | H                     |
|                           | 7522                 | -41.63          | -13              | -28.63                  | -75.06                  | -51.02                   | 2.42                       | 11.81                       | H                     |
|                           | 9398                 | -40.36          | -13              | -27.36                  | -78.34                  | -50.33                   | 2.57                       | 12.54                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3763                 | -50.88          | -13              | -37.88                  | -71.23                  | -57.51                   | 1.69                       | 8.32                        | V                     |
|                           | 5639                 | -48.78          | -13              | -35.78                  | -75.13                  | -55.83                   | 2.71                       | 9.76                        | V                     |
|                           | 7522                 | -45.70          | -13              | -32.70                  | -79.1                   | -55.09                   | 2.42                       | 11.81                       | V                     |
|                           | 9398                 | -42.48          | -13              | -29.48                  | -80.7                   | -52.45                   | 2.57                       | 12.54                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3812 | -46.58 | -13 | -33.58 | -66.78 | -53.25 | 1.70 | 8.37  | H |
|         | 5716 | -40.12 | -13 | -27.12 | -67.97 | -47.16 | 2.75 | 9.79  | H |
|         | 7620 | -42.44 | -13 | -29.44 | -74.63 | -51.92 | 2.39 | 11.87 | H |
|         | 9524 | -40.17 | -13 | -27.17 | -79.13 | -50.06 | 2.59 | 12.49 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3812 | -50.27 | -13 | -37.27 | -71.2  | -56.94 | 1.70 | 8.37  | V |
|         | 5716 | -46.29 | -13 | -33.29 | -73.31 | -53.33 | 2.75 | 9.79  | V |
|         | 7620 | -43.36 | -13 | -30.36 | -77.14 | -52.84 | 2.39 | 11.87 | V |
|         | 9524 | -42.22 | -13 | -29.22 | -80.93 | -52.11 | 2.59 | 12.49 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 15MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3728                 | -51.46          | -13              | -38.46                  | -72.1                   | -58.06                   | 1.68                       | 8.27                        | H                     |
|                           | 5590                 | -38.75          | -13              | -25.75                  | -65.43                  | -45.81                   | 2.68                       | 9.74                        | H                     |
|                           | 7459                 | -41.83          | -13              | -28.83                  | -74.56                  | -51.11                   | 2.44                       | 11.72                       | H                     |
|                           | 9321                 | -39.27          | -13              | -26.27                  | -77.76                  | -49.29                   | 2.55                       | 12.57                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3728                 | -52.93          | -13              | -39.93                  | -73.16                  | -59.53                   | 1.68                       | 8.27                        | V                     |
|                           | 5590                 | -45.10          | -13              | -32.10                  | -72.43                  | -52.16                   | 2.68                       | 9.74                        | V                     |
|                           | 7459                 | -44.81          | -13              | -31.81                  | -77.88                  | -54.09                   | 2.44                       | 11.72                       | V                     |
|                           | 9321                 | -41.40          | -13              | -28.40                  | -79.19                  | -51.42                   | 2.55                       | 12.57                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3749                 | -51.66          | -13              | -38.66                  | -72.05                  | -58.28                   | 1.68                       | 8.30                        | H                     |
|                           | 5618                 | -41.06          | -13              | -28.06                  | -68.22                  | -48.11                   | 2.69                       | 9.75                        | H                     |
|                           | 7494                 | -41.93          | -13              | -28.93                  | -75.3                   | -51.29                   | 2.43                       | 11.79                       | H                     |
|                           | 9370                 | -41.09          | -13              | -28.09                  | -79.79                  | -51.08                   | 2.56                       | 12.55                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3777                 | -52.85          | -13              | -39.85                  | -73.55                  | -59.49                   | 1.69                       | 8.33                        | V                     |
|                           | 5660                 | -46.26          | -13              | -33.26                  | -73.45                  | -53.31                   | 2.72                       | 9.76                        | V                     |
|                           | 7550                 | -45.06          | -13              | -32.06                  | -79.31                  | -54.48                   | 2.41                       | 11.83                       | V                     |
|                           | 9433                 | -43.13          | -13              | -30.13                  | -81.32                  | -53.08                   | 2.58                       | 12.53                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3791 | -50.64 | -13 | -37.64 | -71.2  | -57.29 | 1.70 | 8.35  | H |
|         | 5688 | -44.07 | -13 | -31.07 | -71.24 | -51.11 | 2.73 | 9.78  | H |
|         | 7585 | -40.93 | -13 | -27.93 | -73.72 | -50.38 | 2.40 | 11.85 | H |
|         | 9482 | -41.72 | -13 | -28.72 | -80.17 | -51.64 | 2.59 | 12.51 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3791 | -52.39 | -13 | -39.39 | -73.08 | -59.04 | 1.70 | 8.35  | V |
|         | 5688 | -47.11 | -13 | -34.11 | -74.59 | -54.15 | 2.73 | 9.78  | V |
|         | 7585 | -41.49 | -13 | -28.49 | -74.87 | -50.94 | 2.40 | 11.85 | V |
|         | 9482 | -42.82 | -13 | -29.82 | -81.08 | -52.74 | 2.59 | 12.51 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 2 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3721                 | -50.39          | -13              | -37.39                  | -71.28                  | -56.98                   | 1.67                       | 8.27                        | H                     |
|                           | 5583                 | -39.99          | -13              | -26.99                  | -65.85                  | -47.05                   | 2.67                       | 9.73                        | H                     |
|                           | 7438                 | -41.61          | -13              | -28.61                  | -74.36                  | -50.84                   | 2.45                       | 11.68                       | H                     |
|                           | 9300                 | -40.63          | -13              | -27.63                  | -77.92                  | -50.66                   | 2.55                       | 12.58                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3721                 | -51.57          | -13              | -38.57                  | -72.36                  | -58.16                   | 1.67                       | 8.27                        | V                     |
|                           | 5583                 | -45.38          | -13              | -32.38                  | -71.75                  | -52.44                   | 2.67                       | 9.73                        | V                     |
|                           | 7438                 | -45.68          | -13              | -32.68                  | -78.46                  | -54.91                   | 2.45                       | 11.68                       | V                     |
|                           | 9300                 | -43.79          | -13              | -30.79                  | -80.8                   | -53.82                   | 2.55                       | 12.58                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3763                 | -50.45          | -13              | -37.45                  | -70.88                  | -57.08                   | 1.69                       | 8.32                        | H                     |
|                           | 5639                 | -41.20          | -13              | -28.20                  | -68.83                  | -48.25                   | 2.71                       | 9.76                        | H                     |
|                           | 7522                 | -43.45          | -13              | -30.45                  | -76.53                  | -52.84                   | 2.42                       | 11.81                       | H                     |
|                           | 9398                 | -41.52          | -13              | -28.52                  | -80.2                   | -51.49                   | 2.57                       | 12.54                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3763                 | -52.41          | -13              | -39.41                  | -73.41                  | -59.04                   | 1.69                       | 8.32                        | V                     |
|                           | 5639                 | -47.13          | -13              | -34.13                  | -74.21                  | -54.18                   | 2.71                       | 9.76                        | V                     |
|                           | 7522                 | -45.82          | -13              | -32.82                  | -79.28                  | -55.21                   | 2.42                       | 11.81                       | V                     |
|                           | 9398                 | -42.46          | -13              | -29.46                  | -81.26                  | -52.43                   | 2.57                       | 12.54                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3798 | -49.74 | -13 | -36.74 | -69.68 | -56.4  | 1.70 | 8.36  | H |
|         | 5702 | -40.18 | -13 | -27.18 | -67.67 | -47.22 | 2.74 | 9.78  | H |
|         | 7599 | -40.30 | -13 | -27.30 | -74    | -49.76 | 2.40 | 11.86 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3798 | -52.38 | -13 | -39.38 | -72.82 | -59.04 | 1.70 | 8.36  | V |
|         | 5702 | -45.82 | -13 | -32.82 | -72.3  | -52.86 | 2.74 | 9.78  | V |
|         | 7599 | -43.86 | -13 | -30.86 | -76.66 | -53.32 | 2.40 | 11.86 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 4**

| LTE Band 4 / 1.4MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 3420                 | -55.21          | -13              | -42.21                  | -75.21                  | -61.28                   | 1.58                       | 7.65                        | H                     |
|                            | 5135                 | -45.03          | -13              | -32.03                  | -70.57                  | -52.32                   | 2.41                       | 9.70                        | H                     |
|                            | 6843                 | -46.73          | -13              | -33.73                  | -78.7                   | -54.7                    | 2.64                       | 10.61                       | H                     |
|                            | 8551                 | -37.10          | -13              | -24.10                  | -71.87                  | -47.23                   | 2.39                       | 12.52                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3420                 | -55.26          | -13              | -42.26                  | -75.26                  | -61.33                   | 1.58                       | 7.65                        | V                     |
|                            | 5135                 | -48.97          | -13              | -35.97                  | -74.51                  | -56.26                   | 2.41                       | 9.70                        | V                     |
|                            | 6843                 | -48.79          | -13              | -35.79                  | -80.76                  | -56.76                   | 2.64                       | 10.61                       | V                     |
|                            | 8551                 | -42.10          | -13              | -29.10                  | -76.87                  | -52.23                   | 2.39                       | 12.52                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 3462                 | -55.73          | -13              | -42.73                  | -75.87                  | -61.97                   | 1.59                       | 7.83                        | H                     |
|                            | 5198                 | -42.59          | -13              | -29.59                  | -68.3                   | -49.84                   | 2.45                       | 9.70                        | H                     |
|                            | 6927                 | -45.94          | -13              | -32.94                  | -78.17                  | -54.04                   | 2.61                       | 10.71                       | H                     |
|                            | 8663                 | -38.87          | -13              | -25.87                  | -73.99                  | -49.02                   | 2.41                       | 12.57                       | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                            | 3462                 | -55.94          | -13              | -42.94                  | -76.08                  | -62.18                   | 1.59                       | 7.83                        | V                     |
|                            | 5198                 | -46.62          | -13              | -33.62                  | -72.33                  | -53.87                   | 2.45                       | 9.70                        | V                     |
|                            | 6927                 | -47.80          | -13              | -34.80                  | -80.03                  | -55.9                    | 2.61                       | 10.71                       | V                     |
|                            | 8663                 | -43.98          | -13              | -30.98                  | -79.1                   | -54.13                   | 2.41                       | 12.57                       | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3511 | -52.51 | -13 | -39.51 | -72.75 | -58.92 | 1.61 | 8.01  | H |
|         | 5261 | -38.50 | -13 | -25.50 | -64.37 | -45.71 | 2.49 | 9.70  | H |
|         | 7018 | -44.97 | -13 | -31.97 | -77.44 | -53.22 | 2.58 | 10.84 | H |
|         | 8768 | -38.19 | -13 | -25.19 | -73.6  | -48.36 | 2.43 | 12.61 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3511 | -54.67 | -13 | -41.67 | -74.91 | -61.08 | 1.61 | 8.01  | V |
|         | 5261 | -43.53 | -13 | -30.53 | -69.4  | -50.74 | 2.49 | 9.70  | V |
|         | 7018 | -47.24 | -13 | -34.24 | -79.71 | -55.49 | 2.58 | 10.84 | V |
|         | 8775 | -42.52 | -13 | -29.52 | -77.93 | -52.7  | 2.43 | 12.61 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 4 / 3MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3427                 | -55.34          | -13              | -42.34                  | -75.39                  | -61.44                   | 1.58                       | 7.68                        | H                     |
|                          | 5135                 | -44.91          | -13              | -31.91                  | -70.46                  | -52.2                    | 2.41                       | 9.70                        | H                     |
|                          | 6850                 | -46.53          | -13              | -33.53                  | -78.51                  | -54.51                   | 2.64                       | 10.62                       | H                     |
|                          | 8558                 | -36.05          | -13              | -23.05                  | -70.87                  | -46.19                   | 2.39                       | 12.52                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3427                 | -55.16          | -13              | -42.16                  | -75.21                  | -61.26                   | 1.58                       | 7.68                        | V                     |
|                          | 5135                 | -47.83          | -13              | -34.83                  | -73.38                  | -55.12                   | 2.41                       | 9.70                        | V                     |
|                          | 6850                 | -48.37          | -13              | -35.37                  | -80.35                  | -56.35                   | 2.64                       | 10.62                       | V                     |
|                          | 8558                 | -41.46          | -13              | -28.46                  | -76.28                  | -51.6                    | 2.39                       | 12.52                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                   | 3469                 | -56.02          | -13              | -43.02                  | -76.18                  | -62.29                   | 1.59                       | 7.86                        | H                     |
|                          | 5198                 | -44.16          | -13              | -31.16                  | -69.88                  | -51.41                   | 2.45                       | 9.70                        | H                     |
|                          | 6934                 | -44.94          | -13              | -31.94                  | -77.16                  | -53.05                   | 2.61                       | 10.72                       | H                     |
|                          | 8663                 | -34.54          | -13              | -21.54                  | -69.68                  | -44.69                   | 2.41                       | 12.57                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3469                 | -55.72          | -13              | -42.72                  | -75.87                  | -61.99                   | 1.59                       | 7.86                        | V                     |
|                          | 5198                 | -46.49          | -13              | -33.49                  | -72.21                  | -53.74                   | 2.45                       | 9.70                        | V                     |
|                          | 6934                 | -47.13          | -13              | -34.13                  | -79.35                  | -55.24                   | 2.61                       | 10.72                       | V                     |
|                          | 8663                 | -43.37          | -13              | -30.37                  | -78.5                   | -53.52                   | 2.41                       | 12.57                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3511 | -51.99 | -13 | -38.99 | -72.24 | -58.4  | 1.61 | 8.01  | H |
|         | 5261 | -38.77 | -13 | -25.77 | -64.65 | -45.98 | 2.49 | 9.70  | H |
|         | 7018 | -43.41 | -13 | -30.41 | -75.89 | -51.66 | 2.58 | 10.84 | H |
|         | 8768 | -37.24 | -13 | -24.24 | -72.66 | -47.41 | 2.43 | 12.61 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3511 | -54.53 | -13 | -41.53 | -74.78 | -60.94 | 1.61 | 8.01  | V |
|         | 5261 | -43.96 | -13 | -30.96 | -69.84 | -51.17 | 2.49 | 9.70  | V |
|         | 7018 | -46.98 | -13 | -33.98 | -79.46 | -55.23 | 2.58 | 10.84 | V |
|         | 8768 | -42.68 | -13 | -29.68 | -78.1  | -52.85 | 2.43 | 12.61 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 4 / 5MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3427                 | -54.87          | -13              | -41.87                  | -74.92                  | -60.97                   | 1.58                       | 7.68                        | H                     |
|                          | 5135                 | -44.15          | -13              | -31.15                  | -69.7                   | -51.44                   | 2.41                       | 9.70                        | H                     |
|                          | 6850                 | -44.39          | -13              | -31.39                  | -76.37                  | -52.37                   | 2.64                       | 10.62                       | H                     |
|                          | 8565                 | -34.89          | -13              | -21.89                  | -69.73                  | -45.03                   | 2.39                       | 12.53                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3427                 | -55.49          | -13              | -42.49                  | -75.54                  | -61.59                   | 1.58                       | 7.68                        | V                     |
|                          | 5135                 | -49.12          | -13              | -36.12                  | -74.67                  | -56.41                   | 2.41                       | 9.70                        | V                     |
|                          | 6850                 | -48.00          | -13              | -35.00                  | -79.98                  | -55.98                   | 2.64                       | 10.62                       | V                     |
|                          | 8565                 | -41.72          | -13              | -28.72                  | -76.56                  | -51.86                   | 2.39                       | 12.53                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                   | 3462                 | -56.86          | -13              | -43.86                  | -77.01                  | -63.1                    | 1.59                       | 7.83                        | H                     |
|                          | 5198                 | -45.83          | -13              | -32.83                  | -71.55                  | -53.08                   | 2.45                       | 9.70                        | H                     |
|                          | 6927                 | -45.81          | -13              | -32.81                  | -78.05                  | -53.91                   | 2.61                       | 10.71                       | H                     |
|                          | 8663                 | -35.57          | -13              | -22.57                  | -70.7                   | -45.72                   | 2.41                       | 12.57                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3462                 | -56.03          | -13              | -43.03                  | -76.18                  | -62.27                   | 1.59                       | 7.83                        | V                     |
|                          | 5198                 | -48.32          | -13              | -35.32                  | -74.04                  | -55.57                   | 2.45                       | 9.70                        | V                     |
|                          | 6927                 | -47.53          | -13              | -34.53                  | -79.77                  | -55.63                   | 2.61                       | 10.71                       | V                     |
|                          | 8663                 | -42.98          | -13              | -29.98                  | -78.11                  | -53.13                   | 2.41                       | 12.57                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3504 | -52.85 | -13 | -39.85 | -73.18 | -59.25 | 1.61 | 8.00  | H |
|         | 5261 | -40.88 | -13 | -27.88 | -66.76 | -48.09 | 2.49 | 9.70  | H |
|         | 7011 | -44.08 | -13 | -31.08 | -76.56 | -52.32 | 2.59 | 10.82 | H |
|         | 8761 | -35.58 | -13 | -22.58 | -70.99 | -45.75 | 2.43 | 12.60 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3504 | -53.89 | -13 | -40.89 | -74.12 | -60.29 | 1.61 | 8.00  | V |
|         | 5261 | -45.72 | -13 | -32.72 | -71.6  | -52.93 | 2.49 | 9.70  | V |
|         | 7011 | -46.82 | -13 | -33.82 | -79.3  | -55.06 | 2.59 | 10.82 | V |
|         | 8761 | -42.89 | -13 | -29.89 | -78.3  | -53.06 | 2.43 | 12.60 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 4 / 10MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3420                 | -53.98          | -13              | -40.98                  | -73.99                  | -60.05                   | 1.58                       | 7.65                        | H                     |
|                           | 5135                 | -44.41          | -13              | -31.41                  | -69.96                  | -51.7                    | 2.41                       | 9.70                        | H                     |
|                           | 6843                 | -46.20          | -13              | -33.20                  | -78.18                  | -54.17                   | 2.64                       | 10.61                       | H                     |
|                           | 8551                 | -35.48          | -13              | -22.48                  | -70.26                  | -45.61                   | 2.39                       | 12.52                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3420                 | -56.30          | -13              | -43.30                  | -76.31                  | -62.37                   | 1.58                       | 7.65                        | V                     |
|                           | 5135                 | -49.36          | -13              | -36.36                  | -74.91                  | -56.65                   | 2.41                       | 9.70                        | V                     |
|                           | 6843                 | -48.47          | -13              | -35.47                  | -80.45                  | -56.44                   | 2.64                       | 10.61                       | V                     |
|                           | 8551                 | -43.42          | -13              | -30.42                  | -78.2                   | -53.55                   | 2.39                       | 12.52                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3455                 | -54.06          | -13              | -41.06                  | -74.15                  | -60.27                   | 1.59                       | 7.80                        | H                     |
|                           | 5184                 | -42.79          | -13              | -29.79                  | -68.46                  | -50.05                   | 2.44                       | 9.70                        | H                     |
|                           | 6910                 | -46.21          | -13              | -33.21                  | -78.39                  | -54.28                   | 2.62                       | 10.69                       | H                     |
|                           | 8642                 | -34.59          | -13              | -21.59                  | -69.66                  | -44.74                   | 2.41                       | 12.56                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3455                 | -55.66          | -13              | -42.66                  | -75.75                  | -61.87                   | 1.59                       | 7.80                        | V                     |
|                           | 5184                 | -47.89          | -13              | -34.89                  | -73.56                  | -55.15                   | 2.44                       | 9.70                        | V                     |
|                           | 6910                 | -47.94          | -13              | -34.94                  | -80.12                  | -56.01                   | 2.62                       | 10.69                       | V                     |
|                           | 8642                 | -42.57          | -13              | -29.57                  | -77.64                  | -52.72                   | 2.41                       | 12.56                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3490 | -55.37 | -13 | -42.37 | -75.56 | -61.72 | 1.60 | 7.96  | H |
|         | 5240 | -40.86 | -13 | -27.86 | -66.77 | -48.08 | 2.48 | 9.70  | H |
|         | 6983 | -44.38 | -13 | -31.38 | -76.77 | -52.56 | 2.60 | 10.78 | H |
|         | 8726 | -37.18 | -13 | -24.18 | -72.46 | -47.35 | 2.42 | 12.59 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3490 | -56.74 | -13 | -43.74 | -76.93 | -63.09 | 1.60 | 7.96  | V |
|         | 5240 | -47.47 | -13 | -34.47 | -73.28 | -54.69 | 2.48 | 9.70  | V |
|         | 6983 | -47.31 | -13 | -34.31 | -79.7  | -55.49 | 2.60 | 10.78 | V |
|         | 8726 | -43.31 | -13 | -30.31 | -78.59 | -53.48 | 2.42 | 12.59 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 4 / 15MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3420                 | -52.78          | -13              | -39.78                  | -72.79                  | -58.85                   | 1.58                       | 7.65                        | H                     |
|                           | 5135                 | -44.17          | -13              | -31.17                  | -69.72                  | -51.46                   | 2.41                       | 9.70                        | H                     |
|                           | 6843                 | -45.84          | -13              | -32.84                  | -77.82                  | -53.81                   | 2.64                       | 10.61                       | H                     |
|                           | 8558                 | -35.98          | -13              | -22.98                  | -70.8                   | -46.12                   | 2.39                       | 12.52                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3420                 | -55.96          | -13              | -42.96                  | -75.97                  | -62.03                   | 1.58                       | 7.65                        | V                     |
|                           | 5135                 | -49.22          | -13              | -36.22                  | -74.77                  | -56.51                   | 2.41                       | 9.70                        | V                     |
|                           | 6843                 | -48.49          | -13              | -35.49                  | -80.47                  | -56.46                   | 2.64                       | 10.61                       | V                     |
|                           | 8558                 | -42.80          | -13              | -29.80                  | -77.62                  | -52.94                   | 2.39                       | 12.52                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3455                 | -52.89          | -13              | -39.89                  | -72.98                  | -59.1                    | 1.59                       | 7.80                        | H                     |
|                           | 5177                 | -43.86          | -13              | -30.86                  | -69.53                  | -51.12                   | 2.44                       | 9.70                        | H                     |
|                           | 6906                 | -45.38          | -13              | -32.38                  | -77.5                   | -53.45                   | 2.62                       | 10.69                       | H                     |
|                           | 8628                 | -36.49          | -13              | -23.49                  | -71.5                   | -46.64                   | 2.40                       | 12.55                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3455                 | -55.65          | -13              | -42.65                  | -75.74                  | -61.86                   | 1.59                       | 7.80                        | V                     |
|                           | 5177                 | -47.97          | -13              | -34.97                  | -73.64                  | -55.23                   | 2.44                       | 9.70                        | V                     |
|                           | 6906                 | -48.00          | -13              | -35.00                  | -80.12                  | -56.07                   | 2.62                       | 10.69                       | V                     |
|                           | 8628                 | -43.87          | -13              | -30.87                  | -78.88                  | -54.02                   | 2.40                       | 12.55                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3483 | -54.87 | -13 | -41.87 | -75.06 | -61.2  | 1.60 | 7.93  | H |
|         | 5226 | -41.38 | -13 | -28.38 | -67.19 | -48.61 | 2.47 | 9.70  | H |
|         | 6962 | -44.80 | -13 | -31.80 | -77.14 | -52.95 | 2.60 | 10.75 | H |
|         | 8705 | -37.47 | -13 | -24.47 | -72.69 | -47.63 | 2.42 | 12.58 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3483 | -56.29 | -13 | -43.29 | -76.48 | -62.62 | 1.60 | 7.93  | V |
|         | 5226 | -47.19 | -13 | -34.19 | -73    | -54.42 | 2.47 | 9.70  | V |
|         | 6962 | -47.58 | -13 | -34.58 | -79.92 | -55.73 | 2.60 | 10.75 | V |
|         | 8705 | -43.05 | -13 | -30.05 | -78.27 | -53.21 | 2.42 | 12.58 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 4 / 20MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 3420                 | -54.90          | -13              | -41.90                  | -74.91                  | -60.97                   | 1.58                       | 7.65                        | H                     |
|                           | 5135                 | -43.61          | -13              | -30.61                  | -69.16                  | -50.9                    | 2.41                       | 9.70                        | H                     |
|                           | 6843                 | -45.80          | -13              | -32.80                  | -77.78                  | -53.77                   | 2.64                       | 10.61                       | H                     |
|                           | 8558                 | -36.18          | -13              | -23.18                  | -71                     | -46.32                   | 2.39                       | 12.52                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3420                 | -56.40          | -13              | -43.40                  | -76.41                  | -62.47                   | 1.58                       | 7.65                        | V                     |
|                           | 5135                 | -48.77          | -13              | -35.77                  | -74.32                  | -56.06                   | 2.41                       | 9.70                        | V                     |
|                           | 6843                 | -48.39          | -13              | -35.39                  | -80.37                  | -56.36                   | 2.64                       | 10.61                       | V                     |
|                           | 8558                 | -41.83          | -13              | -28.83                  | -76.65                  | -51.97                   | 2.39                       | 12.52                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 3448                 | -52.98          | -13              | -39.98                  | -73.07                  | -59.16                   | 1.59                       | 7.77                        | H                     |
|                           | 5170                 | -44.97          | -13              | -31.97                  | -70.6                   | -52.24                   | 2.43                       | 9.70                        | H                     |
|                           | 6892                 | -46.62          | -13              | -33.62                  | -78.76                  | -54.67                   | 2.63                       | 10.67                       | H                     |
|                           | 8621                 | -36.13          | -13              | -23.13                  | -71.11                  | -46.28                   | 2.40                       | 12.55                       | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                           | 3448                 | -55.92          | -13              | -42.92                  | -76.01                  | -62.1                    | 1.59                       | 7.77                        | V                     |
|                           | 5170                 | -48.87          | -13              | -35.87                  | -74.5                   | -56.14                   | 2.43                       | 9.70                        | V                     |
|                           | 6892                 | -48.18          | -13              | -35.18                  | -80.32                  | -56.23                   | 2.63                       | 10.67                       | V                     |
|                           | 8621                 | -42.39          | -13              | -29.39                  | -77.37                  | -52.54                   | 2.40                       | 12.55                       | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3476 | -54.08 | -13 | -41.08 | -74.27 | -60.38 | 1.60 | 7.89  | H |
|         | 5212 | -42.61 | -13 | -29.61 | -68.37 | -49.85 | 2.46 | 9.70  | H |
|         | 6948 | -44.70 | -13 | -31.70 | -76.99 | -52.83 | 2.61 | 10.74 | H |
|         | 8684 | -36.91 | -13 | -23.91 | -72.07 | -47.07 | 2.41 | 12.57 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3476 | -56.02 | -13 | -43.02 | -76.21 | -62.32 | 1.60 | 7.89  | V |
|         | 5212 | -48.50 | -13 | -35.50 | -74.26 | -55.74 | 2.46 | 9.70  | V |
|         | 6948 | -47.50 | -13 | -34.50 | -79.79 | -55.63 | 2.61 | 10.74 | V |
|         | 8684 | -42.82 | -13 | -29.82 | -77.98 | -52.98 | 2.41 | 12.57 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

**LTE Band 12**

| LTE Band 12 / 1.4MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|-----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                     | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                      | 1400                 | -46.28         | -13.00           | -33.28                  | -58.62                  | -47.94                   | 0.87                       | 4.68                        | H                     |
|                             | 2096                 | -47.65         | -13.00           | -34.65                  | -62.13                  | -48.52                   | 1.16                       | 4.19                        | H                     |
|                             | 3496                 | -53.80         | -13.00           | -40.80                  | -73.66                  | -58.03                   | 1.60                       | 7.98                        | H                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                             | 1400                 | -50.17         | -13.00           | -37.17                  | -62.39                  | -51.83                   | 0.87                       | 4.68                        | V                     |
|                             | 2096                 | -48.38         | -13.00           | -35.38                  | -62.54                  | -49.25                   | 1.16                       | 4.19                        | V                     |
|                             | 3496                 | -54.94         | -13.00           | -41.94                  | -74.44                  | -59.17                   | 1.60                       | 7.98                        | V                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                      | 1416                 | -48.96         | -13.00           | -35.96                  | -60.60                  | -50.71                   | 0.87                       | 4.78                        | H                     |
|                             | 2120                 | -47.01         | -13.00           | -34.01                  | -61.93                  | -47.95                   | 1.17                       | 4.26                        | H                     |
|                             | 3536                 | -49.79         | -13.00           | -36.79                  | -69.66                  | -54.07                   | 1.62                       | 8.04                        | H                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                             | 1416                 | -51.97         | -13.00           | -38.97                  | -63.56                  | -53.72                   | 0.87                       | 4.78                        | V                     |
|                             | 2120                 | -46.11         | -13.00           | -33.11                  | -61.30                  | -47.05                   | 1.17                       | 4.26                        | V                     |
|                             | 3536                 | -49.60         | -13.00           | -36.60                  | -69.45                  | -53.88                   | 1.62                       | 8.04                        | V                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                             |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |        |        |        |        |      |      |   |
|---------|------|--------|--------|--------|--------|--------|------|------|---|
| Highest | 1432 | -56.19 | -13.00 | -43.19 | -68.40 | -58.04 | 0.88 | 4.88 | H |
|         | 2144 | -55.29 | -13.00 | -42.29 | -69.72 | -56.29 | 1.18 | 4.33 | H |
|         | 3576 | -54.12 | -13.00 | -41.12 | -75.24 | -58.43 | 1.63 | 8.09 | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         | 1432 | -54.44 | -13.00 | -41.44 | -66.26 | -56.29 | 0.88 | 4.88 | V |
|         | 2144 | -52.84 | -13.00 | -39.84 | -67.51 | -53.84 | 1.18 | 4.33 | V |
|         | 3576 | -51.80 | -13.00 | -38.80 | -71.88 | -56.11 | 1.63 | 8.09 | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 12 / 3MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1400                 | -47.60         | -13.00           | -34.60                  | -58.95                  | -49.26                   | 0.87                       | 4.68                        | H                     |
|                           | 2096                 | -49.64         | -13.00           | -36.64                  | -63.76                  | -50.51                   | 1.16                       | 4.19                        | H                     |
|                           | 3496                 | -53.10         | -13.00           | -40.10                  | -73.92                  | -57.33                   | 1.60                       | 7.98                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1400                 | -51.97         | -13.00           | -38.97                  | -63.34                  | -53.63                   | 0.87                       | 4.68                        | V                     |
|                           | 2096                 | -49.35         | -13.00           | -36.35                  | -64.12                  | -50.22                   | 1.16                       | 4.19                        | V                     |
|                           | 3496                 | -54.48         | -13.00           | -41.48                  | -74.27                  | -58.71                   | 1.60                       | 7.98                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 1416                 | -52.63         | -13.00           | -39.63                  | -64.87                  | -54.38                   | 0.87                       | 4.78                        | H                     |
|                           | 2120                 | -48.26         | -13.00           | -35.26                  | -63.41                  | -49.20                   | 1.17                       | 4.26                        | H                     |
|                           | 3528                 | -50.44         | -13.00           | -37.44                  | -70.51                  | -54.71                   | 1.61                       | 8.03                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1416                 | -55.49         | -13.00           | -42.49                  | -67.90                  | -57.24                   | 0.87                       | 4.78                        | V                     |
|                           | 2120                 | -49.95         | -13.00           | -36.95                  | -64.01                  | -50.89                   | 1.17                       | 4.26                        | V                     |
|                           | 3528                 | -50.79         | -13.00           | -37.79                  | -70.31                  | -55.06                   | 1.61                       | 8.03                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |        |        |        |        |      |      |   |
|---------|------|--------|--------|--------|--------|--------|------|------|---|
| Highest | 1424 | -57.66 | -13.00 | -44.66 | -69.34 | -59.46 | 0.88 | 4.83 | H |
|         | 2144 | -52.71 | -13.00 | -39.71 | -67.00 | -53.71 | 1.18 | 4.33 | H |
|         | 3568 | -55.53 | -13.00 | -42.53 | -75.91 | -59.84 | 1.63 | 8.08 | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         | 1424 | -57.66 | -13.00 | -44.66 | -69.80 | -59.46 | 0.88 | 4.83 | V |
|         | 2144 | -52.33 | -13.00 | -39.33 | -66.86 | -53.33 | 1.18 | 4.33 | V |
|         | 3568 | -54.47 | -13.00 | -41.47 | -74.62 | -58.78 | 1.63 | 8.08 | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 12 / 5MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|---------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                   | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                    | 1400                 | -45.63         | -13.00           | -32.63                  | -57.82                  | -47.29                   | 0.87                       | 4.68                        | H                     |
|                           | 2096                 | -47.28         | -13.00           | -34.28                  | -61.88                  | -48.15                   | 1.16                       | 4.19                        | H                     |
|                           | 3496                 | -53.81         | -13.00           | -40.81                  | -73.82                  | -58.04                   | 1.60                       | 7.98                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1400                 | -49.62         | -13.00           | -36.62                  | -62.22                  | -51.28                   | 0.87                       | 4.68                        | V                     |
|                           | 2096                 | -48.80         | -13.00           | -35.80                  | -63.00                  | -49.67                   | 1.16                       | 4.19                        | V                     |
|                           | 3496                 | -53.19         | -13.00           | -40.19                  | -74.07                  | -57.42                   | 1.60                       | 7.98                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                    | 1408                 | -51.34         | -13.00           | -38.34                  | -63.51                  | -53.05                   | 0.87                       | 4.73                        | H                     |
|                           | 2120                 | -47.28         | -13.00           | -34.28                  | -61.18                  | -48.22                   | 1.17                       | 4.26                        | H                     |
|                           | 3528                 | -50.34         | -13.00           | -37.34                  | -70.52                  | -54.61                   | 1.61                       | 8.03                        | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                           | 1408                 | -55.31         | -13.00           | -42.31                  | -67.71                  | -57.02                   | 0.87                       | 4.73                        | V                     |
|                           | 2120                 | -49.87         | -13.00           | -36.87                  | -63.85                  | -50.81                   | 1.17                       | 4.26                        | V                     |
|                           | 3528                 | -51.70         | -13.00           | -38.70                  | -71.65                  | -55.97                   | 1.61                       | 8.03                        | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                           |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |        |        |        |        |      |      |   |
|---------|------|--------|--------|--------|--------|--------|------|------|---|
| Highest | 1416 | -50.74 | -13.00 | -37.74 | -62.50 | -52.49 | 0.87 | 4.78 | H |
|         | 2120 | -45.30 | -13.00 | -32.30 | -59.79 | -46.24 | 1.17 | 4.26 | H |
|         | 3536 | -51.59 | -13.00 | -38.59 | -72.00 | -55.87 | 1.62 | 8.04 | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         | 1416 | -53.44 | -13.00 | -40.44 | -65.34 | -55.19 | 0.87 | 4.78 | V |
|         | 2120 | -48.08 | -13.00 | -35.08 | -62.96 | -49.02 | 1.17 | 4.26 | V |
|         | 3536 | -50.11 | -13.00 | -37.11 | -70.30 | -54.39 | 1.62 | 8.04 | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



| LTE Band 12 / 10MHz / QPSK |                      |                |                  |                         |                         |                          |                            |                             |                       |
|----------------------------|----------------------|----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                    | Frequency<br>( MHz ) | ERP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                     | 1416                 | -48.59         | -13.00           | -35.59                  | -60.27                  | -50.34                   | 0.87                       | 4.78                        | H                     |
|                            | 2128                 | -49.22         | -13.00           | -36.22                  | -64.28                  | -50.18                   | 1.17                       | 4.28                        | H                     |
|                            | 3544                 | -51.44         | -13.00           | -38.44                  | -71.81                  | -55.72                   | 1.62                       | 8.05                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1416                 | -49.40         | -13.00           | -36.40                  | -61.36                  | -51.15                   | 0.87                       | 4.78                        | V                     |
|                            | 2128                 | -52.61         | -13.00           | -39.61                  | -67.11                  | -53.57                   | 1.17                       | 4.28                        | V                     |
|                            | 3544                 | -51.03         | -13.00           | -38.03                  | -71.33                  | -55.31                   | 1.62                       | 8.05                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
| Middle                     | 1424                 | -52.45         | -13.00           | -39.45                  | -64.59                  | -54.25                   | 0.88                       | 4.83                        | H                     |
|                            | 2136                 | -52.09         | -13.00           | -39.09                  | -66.75                  | -53.07                   | 1.18                       | 4.31                        | H                     |
|                            | 3560                 | -55.89         | -13.00           | -42.89                  | -75.43                  | -60.19                   | 1.62                       | 8.07                        | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | H                     |
|                            | 1424                 | -51.55         | -13.00           | -38.55                  | -63.43                  | -53.35                   | 0.88                       | 4.83                        | V                     |
|                            | 2136                 | -53.11         | -13.00           | -40.11                  | -67.79                  | -54.09                   | 1.18                       | 4.31                        | V                     |
|                            | 3560                 | -55.63         | -13.00           | -42.63                  | -75.84                  | -59.93                   | 1.62                       | 8.07                        | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |
|                            |                      |                |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |        |        |        |        |      |      |   |
|---------|------|--------|--------|--------|--------|--------|------|------|---|
| Highest | 1432 | -51.21 | -13.00 | -38.21 | -63.24 | -53.06 | 0.88 | 4.88 | H |
|         | 2144 | -50.84 | -13.00 | -37.84 | -64.78 | -51.84 | 1.18 | 4.33 | H |
|         | 3576 | -50.34 | -13.00 | -37.34 | -71.23 | -54.65 | 1.63 | 8.09 | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         |      |        |        |        |        |        |      |      | H |
|         | 1432 | -51.20 | -13.00 | -38.20 | -63.14 | -53.05 | 0.88 | 4.88 | V |
|         | 2144 | -51.49 | -13.00 | -38.49 | -66.27 | -52.49 | 1.18 | 4.33 | V |
|         | 3576 | -49.50 | -13.00 | -36.50 | -70.29 | -53.81 | 1.63 | 8.09 | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |
|         |      |        |        |        |        |        |      |      | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



&lt;EUT with Adapter 2 and Battery 2&gt;

**LTE Band 4**

| LTE Band 4 / 3MHz / QPSK |                      |                 |                  |                         |                         |                          |                            |                             |                       |
|--------------------------|----------------------|-----------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                  | Frequency<br>( MHz ) | EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| Lowest                   | 3427                 | -54.07          | -13              | -41.07                  | -74.11                  | -60.17                   | 1.58                       | 7.68                        | H                     |
|                          | 5135                 | -41.60          | -13              | -28.60                  | -67.14                  | -48.89                   | 2.41                       | 9.70                        | H                     |
|                          | 6850                 | -45.54          | -13              | -32.54                  | -77.51                  | -53.52                   | 2.64                       | 10.62                       | H                     |
|                          | 8558                 | -36.40          | -13              | -23.40                  | -71.21                  | -46.54                   | 2.39                       | 12.52                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3427                 | -54.31          | -13              | -41.31                  | -74.35                  | -60.41                   | 1.58                       | 7.68                        | V                     |
|                          | 5135                 | -47.85          | -13              | -34.85                  | -73.39                  | -55.14                   | 2.41                       | 9.70                        | V                     |
|                          | 6850                 | -48.12          | -13              | -35.12                  | -80.09                  | -56.1                    | 2.64                       | 10.62                       | V                     |
|                          | 8558                 | -42.04          | -13              | -29.04                  | -76.85                  | -52.18                   | 2.39                       | 12.52                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
| Middle                   | 3469                 | -54.37          | -13              | -41.37                  | -74.51                  | -60.64                   | 1.59                       | 7.86                        | H                     |
|                          | 5198                 | -38.51          | -13              | -25.51                  | -64.22                  | -45.76                   | 2.45                       | 9.70                        | H                     |
|                          | 6934                 | -45.14          | -13              | -32.14                  | -77.35                  | -53.25                   | 2.61                       | 10.72                       | H                     |
|                          | 8663                 | -35.66          | -13              | -22.66                  | -70.78                  | -45.81                   | 2.41                       | 12.57                       | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | H                     |
|                          | 3469                 | -54.18          | -13              | -41.18                  | -74.32                  | -60.45                   | 1.59                       | 7.86                        | V                     |
|                          | 5198                 | -45.17          | -13              | -32.17                  | -70.88                  | -52.42                   | 2.45                       | 9.70                        | V                     |
|                          | 6934                 | -47.78          | -13              | -34.78                  | -79.99                  | -55.89                   | 2.61                       | 10.72                       | V                     |
|                          | 8663                 | -42.92          | -13              | -29.92                  | -78.04                  | -53.07                   | 2.41                       | 12.57                       | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |
|                          |                      |                 |                  |                         |                         |                          |                            |                             | V                     |



|         |      |        |     |        |        |        |      |       |   |
|---------|------|--------|-----|--------|--------|--------|------|-------|---|
| Highest | 3511 | -54.60 | -13 | -41.60 | -74.84 | -61.01 | 1.61 | 8.01  | H |
|         | 5261 | -38.30 | -13 | -25.30 | -64.17 | -45.51 | 2.49 | 9.70  | H |
|         | 7018 | -43.59 | -13 | -30.59 | -76.06 | -51.84 | 2.58 | 10.84 | H |
|         | 8768 | -35.81 | -13 | -22.81 | -71.22 | -45.98 | 2.43 | 12.61 | H |
|         |      |        |     |        |        |        |      |       | H |
|         |      |        |     |        |        |        |      |       | H |
|         | 3511 | -53.76 | -13 | -40.76 | -74    | -60.17 | 1.61 | 8.01  | V |
|         | 5261 | -43.29 | -13 | -30.29 | -69.16 | -50.5  | 2.49 | 9.70  | V |
|         | 7018 | -46.14 | -13 | -33.14 | -78.61 | -54.39 | 2.58 | 10.84 | V |
|         | 8768 | -40.70 | -13 | -27.70 | -76.11 | -50.87 | 2.43 | 12.61 | V |
|         |      |        |     |        |        |        |      |       | V |
|         |      |        |     |        |        |        |      |       | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.