

## Radiated Spurious Emission

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in the report.

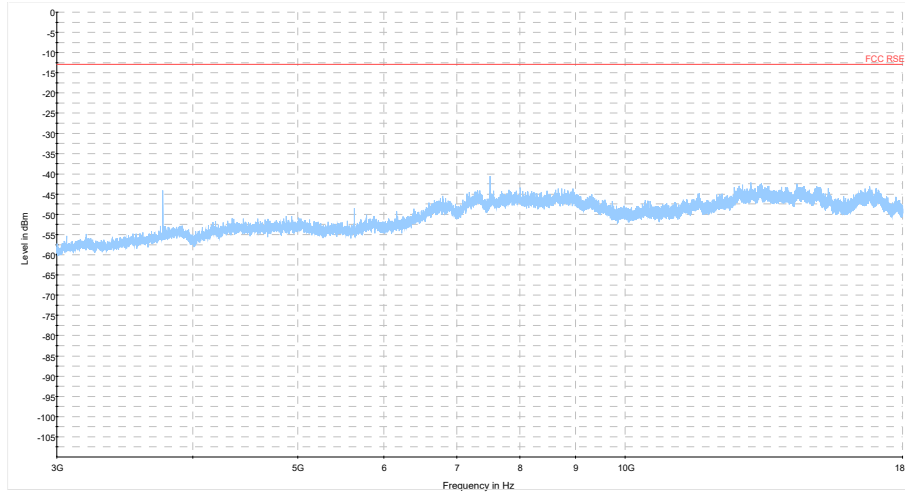
If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.

Radiated measurements are performed by rotating the EUT in different orthogonal test planes.

EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (Horizontal and Vertical). The worst-case configuration and its corresponding results are documented in the test report.

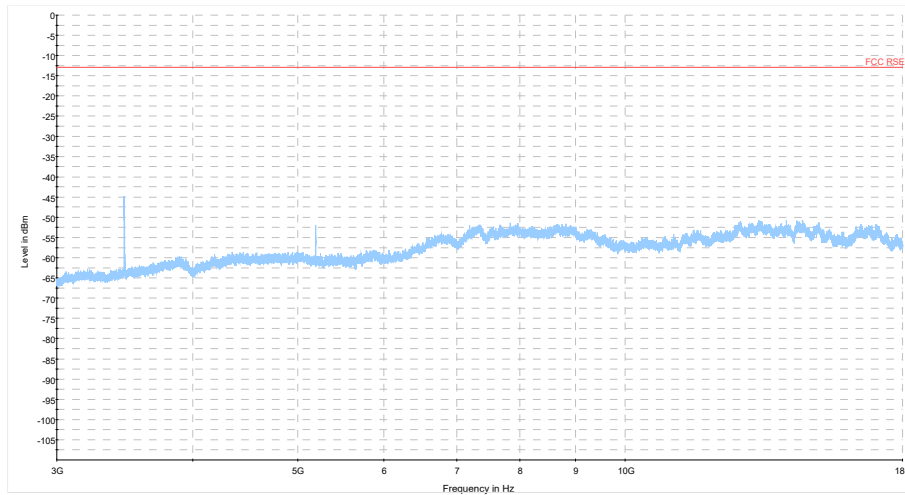
|     |                               |
|-----|-------------------------------|
| LTE | X axis, Vertical polarization |
|-----|-------------------------------|

## LTE Band 2 CH-Middle



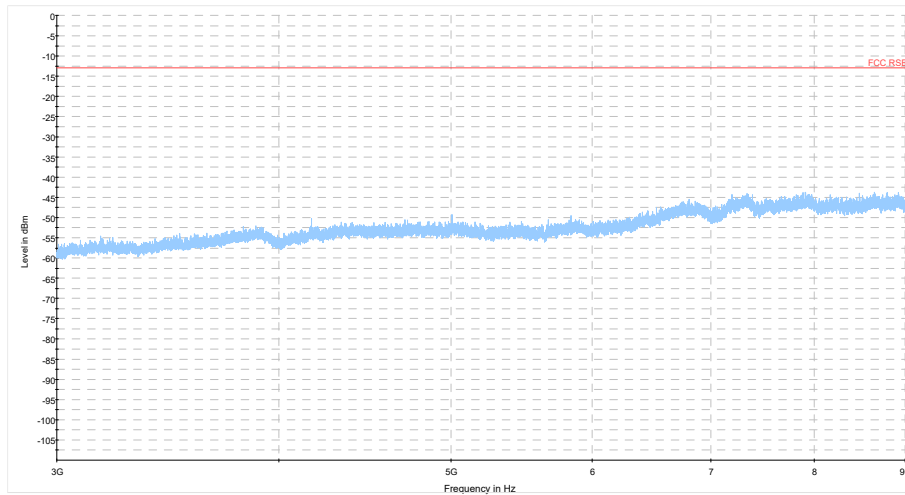
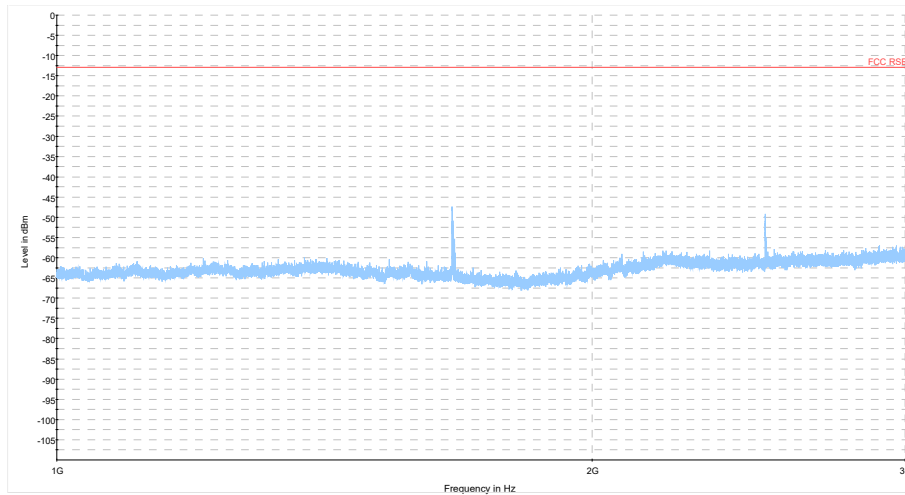
| Band width                                                                                                                                                   | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz                                                                                                                                                         | 2        | 3755.63         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 3        | 5633.63         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 4        | 7511.00         | -48.51   | 4.20            | 12.20      | Vertical             | -40.51             | -13.00      | 27.51       | 85            |
|                                                                                                                                                              | 5        | 9387.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 6        | 11265.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 7        | 13142.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 8        | 15020.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 9        | 16897.50        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 10       | 18775.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.<br>2. The worst emission was found in the antenna is Vertical position. |          |                 |          |                 |            |                      |                    |             |             |               |

## LTE Band 4 CH-Middle



| Band width                                                                                                                                                   | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz                                                                                                                                                         | 2        | 3460.50         | -54.73   | 2.70            | 12.70      | Vertical             | -44.73             | -13.00      | 31.73       | 21            |
|                                                                                                                                                              | 3        | 5191.50         | -61.18   | 3.20            | 12.50      | Vertical             | -51.88             | -13.00      | 38.88       | 123           |
|                                                                                                                                                              | 4        | 6930.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 5        | 8662.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 6        | 10380.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 7        | 12110.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 8        | 13840.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 9        | 15570.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 10       | 17300.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.<br>2. The worst emission was found in the antenna is Vertical position. |          |                 |          |                 |            |                      |                    |             |             |               |

## LTE Band 5 CH-Middle

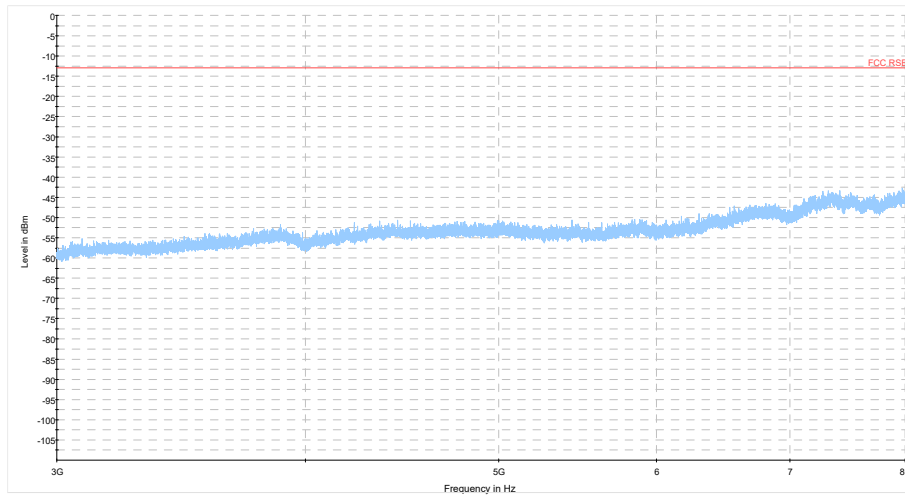
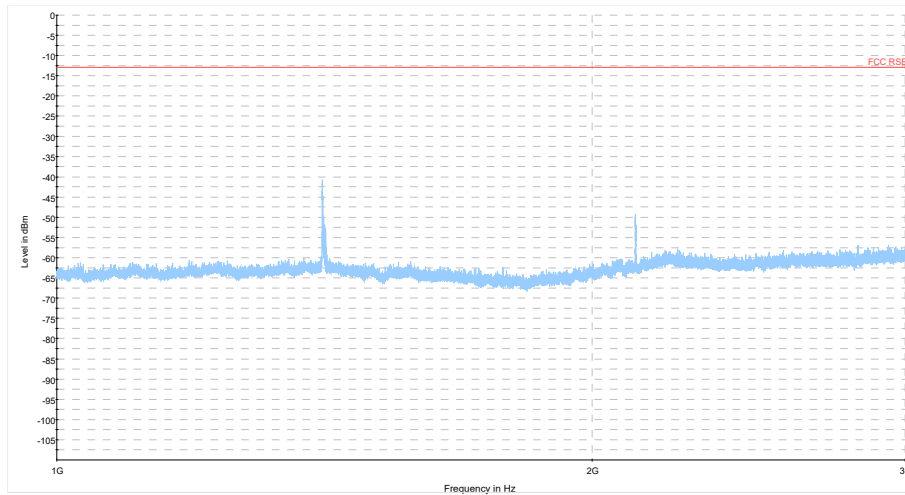


| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz       | 2        | 1668.60         | -52.79   | 1.70            | 8.70       | Vertical             | -47.94             | -13.00      | 34.94       | 23            |
|            | 3        | 2503.30         | -56.69   | 2.30            | 12.00      | Vertical             | -49.14             | -13.00      | 36.14       | 41            |
|            | 4        | 3337.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 5        | 4171.88         | -57.57   | 3.00            | 12.50      | Vertical             | -50.22             | -13.00      | 37.22       | 36            |
|            | 6        | 5006.25         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 7        | 5840.63         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 8        | 6675.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 9        | 7509.38         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 10       | 8343.75         | --       | --              | --         | --                   | --                 | --          | --          | --            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

## LTE Band 12 CH-Middle

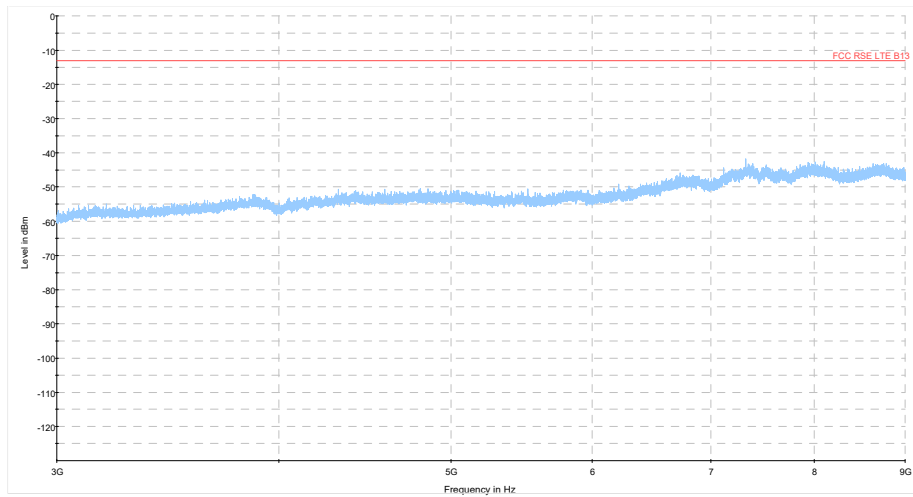
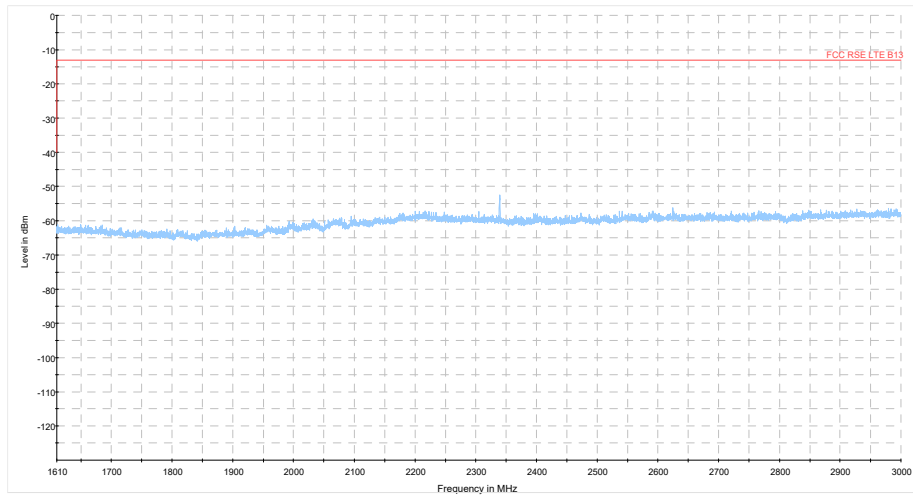
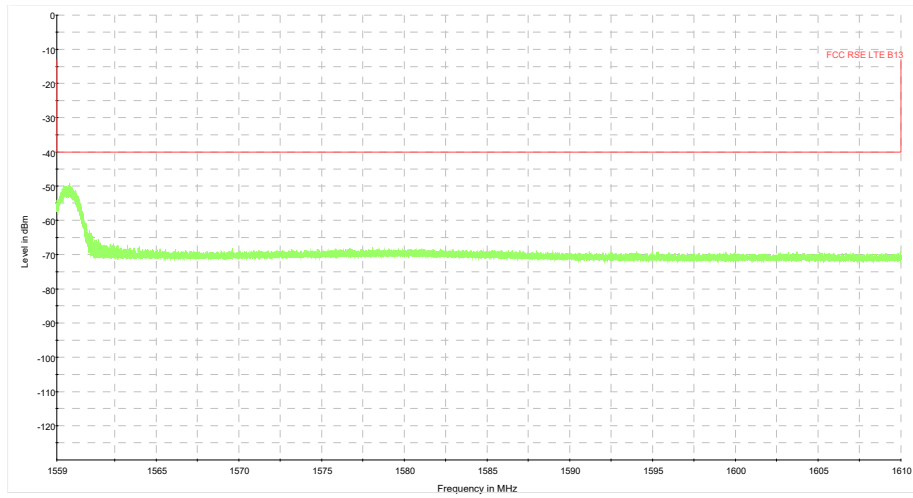


| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz       | 2        | 1410.60         | -45.46   | 1.70            | 8.70       | Vertical             | -40.61             | -13.00      | 27.61       | 75            |
|            | 3        | 2115.90         | -56.04   | 2.10            | 11.10      | Vertical             | -49.19             | -13.00      | 36.19       | 123           |
|            | 4        | 2820.00         | -65.81   | 2.30            | 13.10      | Vertical             | -57.16             | -13.00      | 44.16       | 41            |
|            | 5        | 3525.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 6        | 4230.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 7        | 4935.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 8        | 5640.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 9        | 6345.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 10       | 7050.00         | -53.29   | 4.20            | 11.80      | Vertical             | -47.84             | -13.00      | 34.84       | 16            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 13 CH-Middle

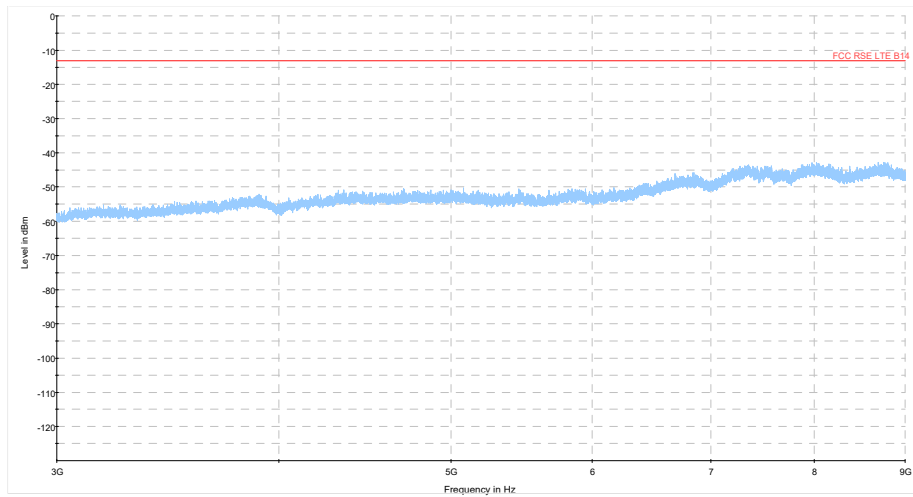
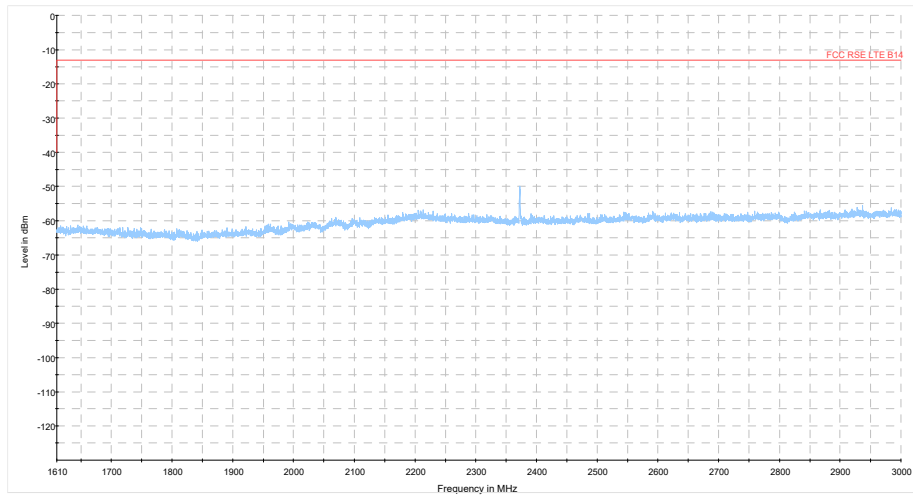
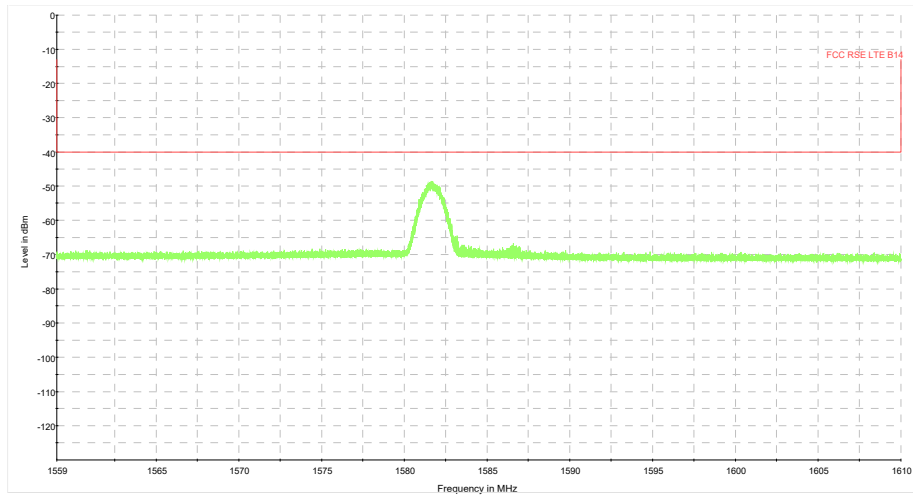


| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz       | 2        | 1599.78         | -56.20   | 1.70            | 8.70       | Vertical             | -49.20             | -40.00      | 9.20        | 123           |
|            | 3        | 2339.58         | -60.19   | 2.10            | 12.00      | Vertical             | -52.44             | -13.00      | 39.44       | 96            |
|            | 4        | 3118.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 5        | 3897.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 6        | 4677.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 7        | 5456.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 8        | 6236.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 9        | 7265.60         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 10       | 7795.00         | -50.87   | 4.40            | 12.30      | Vertical             | -45.12             | -13.00      | 32.12       | 111           |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

2. The worst emission was found in the antenna is Vertical position.

LTE Band 14 CH-Middle

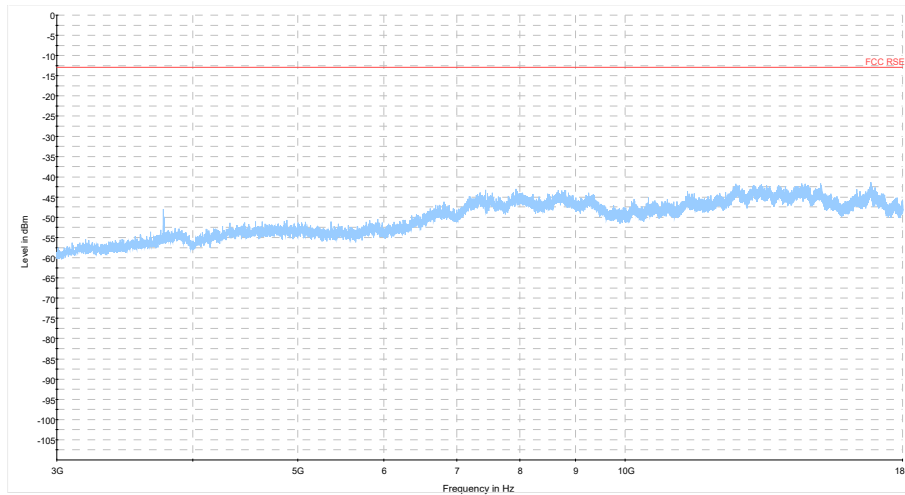


| Band width | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz       | 2        | 1581.62         | -55.72   | 1.70            | 8.70       | Vertical             | -48.72             | -40.00      | 8.72        | 64            |
|            | 3        | 2372.42         | -57.47   | 2.30            | 12.00      | Vertical             | -49.92             | -13.00      | 36.92       | 108           |
|            | 4        | 3162.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 5        | 3952.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 6        | 4743.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 7        | 5533.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 8        | 6324.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 9        | 7114.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|            | 10       | 7905.00         | -50.10   | 4.40            | 12.30      | Vertical             | -44.35             | -13.00      | 31.35       | 44            |

Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.

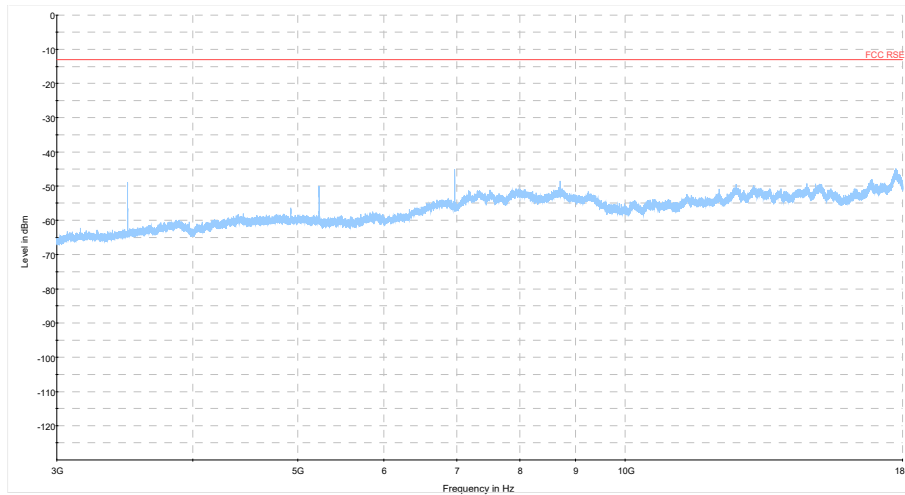
2. The worst emission was found in the antenna is Vertical position.

## LTE Band 25 CH-Middle



| Band width                                                                                                                                                   | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz                                                                                                                                                         | 2        | 3761.00         | -57.90   | 2.60            | 12.50      | Vertical             | -48.00             | -13.00      | 35.00       | 122           |
|                                                                                                                                                              | 3        | 5641.30         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 4        | 7530.00         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 5        | 9401.50         | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 6        | 11295.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 7        | 13177.50        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 8        | 15060.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 9        | 16942.50        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 10       | 18825.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.<br>2. The worst emission was found in the antenna is Vertical position. |          |                 |          |                 |            |                      |                    |             |             |               |

## LTE Band 66 CH-Middle



| Band width                                                                                                                                                   | Harmonic | Frequency (MHz) | SG (dBm) | Cable Loss (dB) | Gain (dBi) | Antenna Polarization | Result Level (dBm) | Limit (dBm) | Margin (dB) | Azimuth (deg) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|----------|-----------------|------------|----------------------|--------------------|-------------|-------------|---------------|
| 5MHz                                                                                                                                                         | 2        | 3486.00         | -58.77   | 2.70            | 12.70      | Vertical             | -48.77             | -13.00      | 35.77       | 11            |
|                                                                                                                                                              | 3        | 5229.00         | -59.22   | 3.20            | 12.50      | Vertical             | -49.92             | -13.00      | 36.92       | 75            |
|                                                                                                                                                              | 4        | 6972.00         | -52.67   | 4.20            | 11.80      | Vertical             | -45.07             | -13.00      | 32.07       | 152           |
|                                                                                                                                                              | 5        | 8715.00         | -56.50   | 4.40            | 12.50      | Vertical             | -48.40             | -13.00      | 35.40       | 3             |
|                                                                                                                                                              | 6        | 10458.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 7        | 12201.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 8        | 13944.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 9        | 15687.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
|                                                                                                                                                              | 10       | 17430.00        | --       | --              | --         | --                   | --                 | --          | --          | --            |
| Note: 1. The other Spurious RF Radiated emissions level is no more than noise floor.<br>2. The worst emission was found in the antenna is Vertical position. |          |                 |          |                 |            |                      |                    |             |             |               |