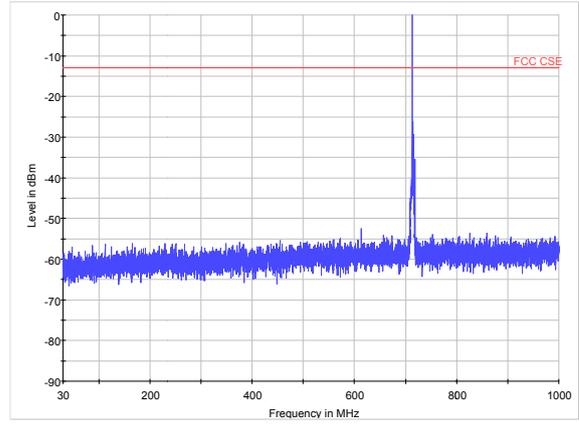
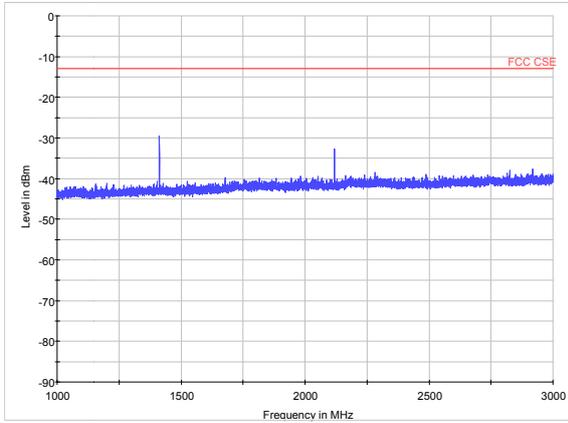


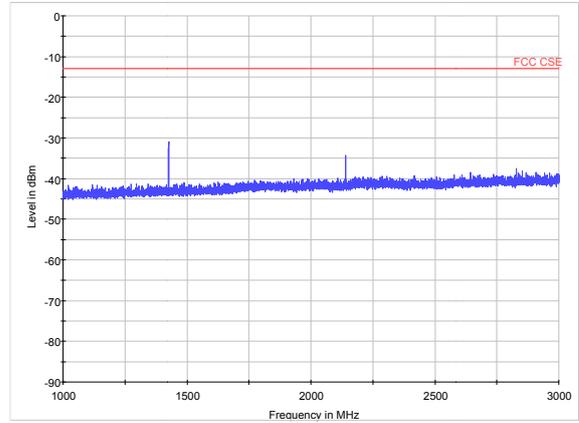
LTE Band 12 3MHz CH23095 30MHz~1GHz



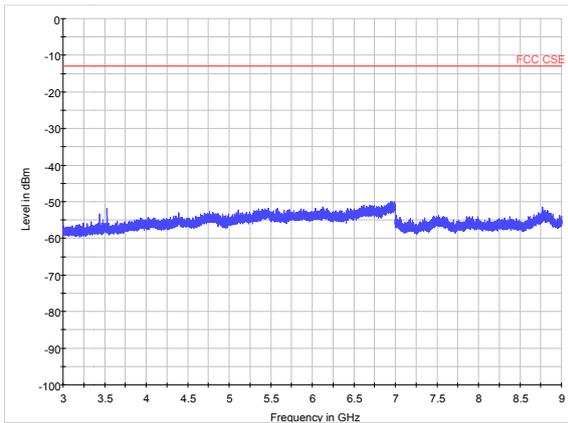
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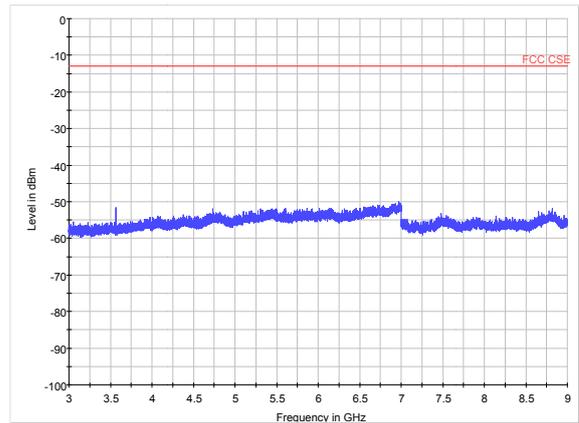
LTE Band 12 3MHz CH23095 1GHz~3GHz



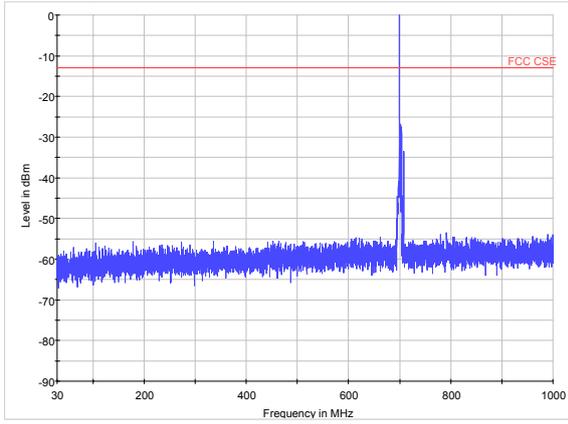
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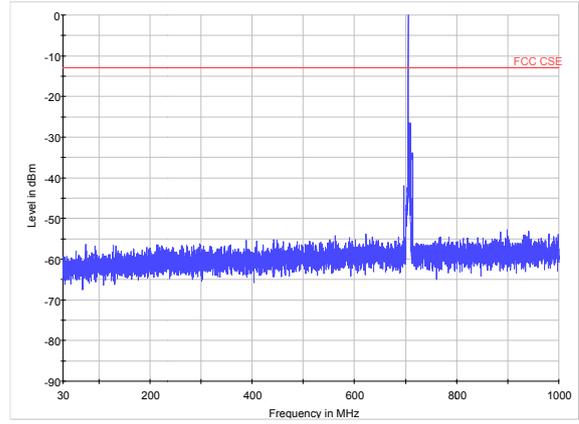
LTE Band 12 3MHz CH23095 3GHz~9GHz



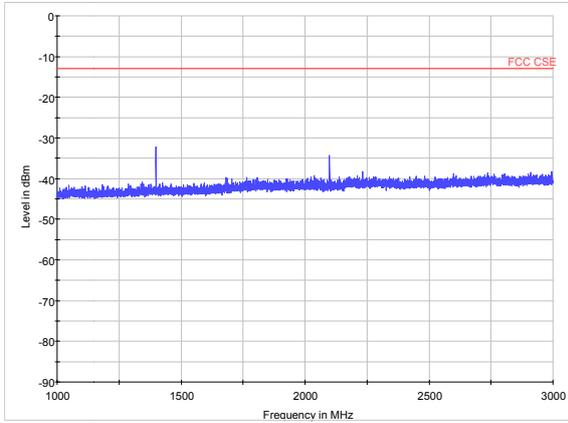
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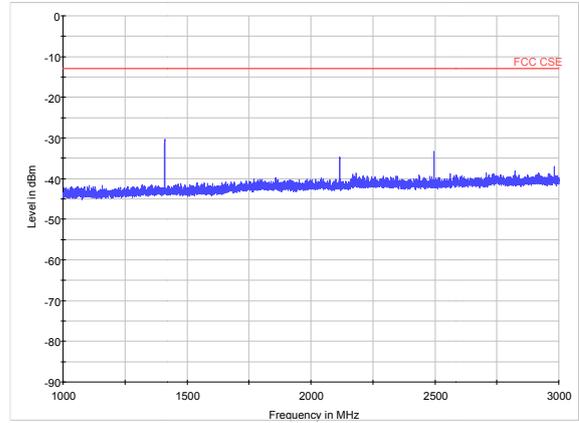
LTE Band 12 5MHz CH23035 30MHz~1GHz



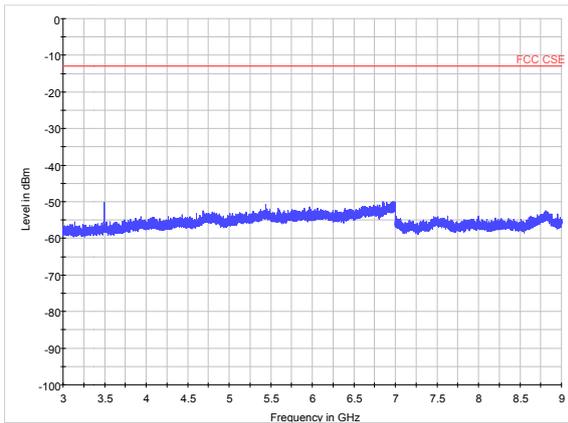
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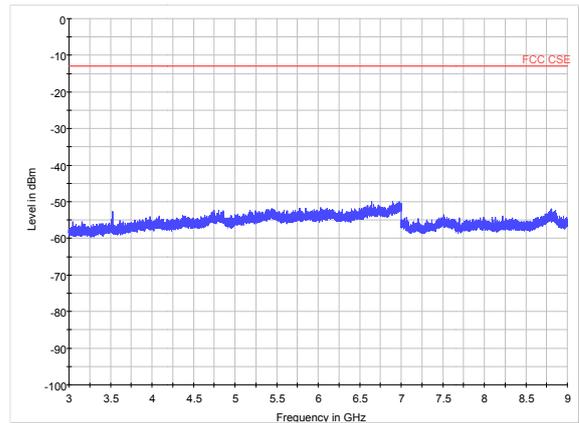
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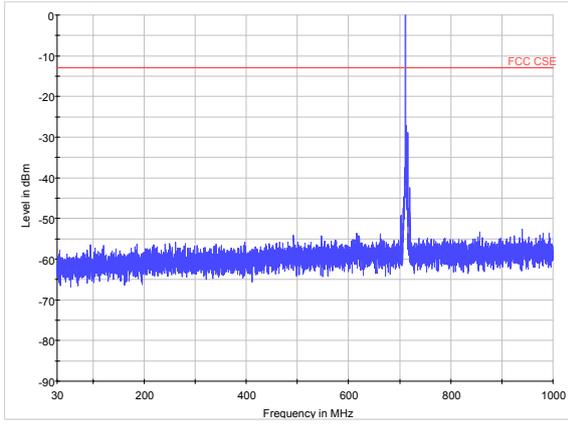
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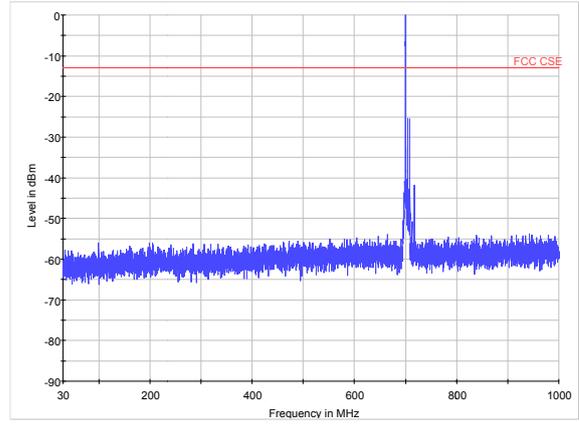
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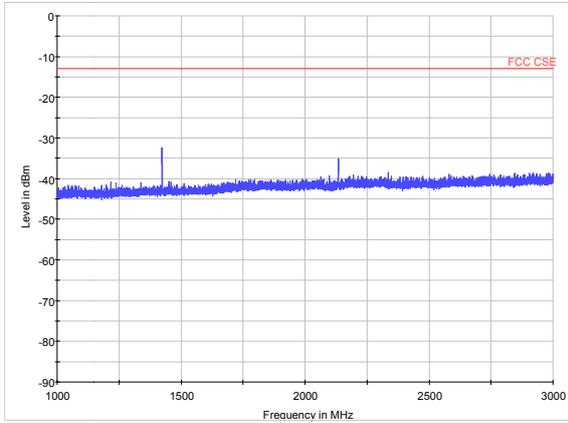
LTE Band 12 5MHz CH23095 3GHz~9GHz



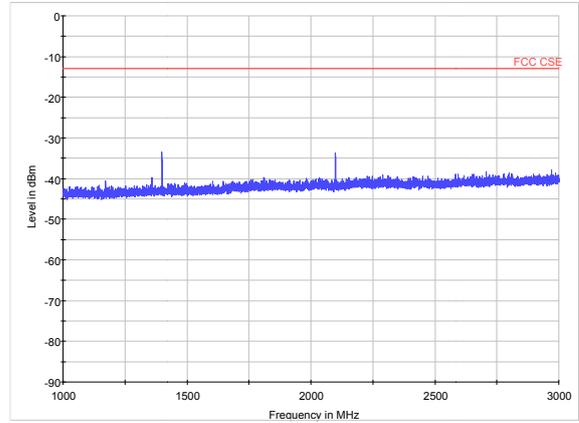
LTE Band 12 5MHz CH23155 30MHz~1GHz



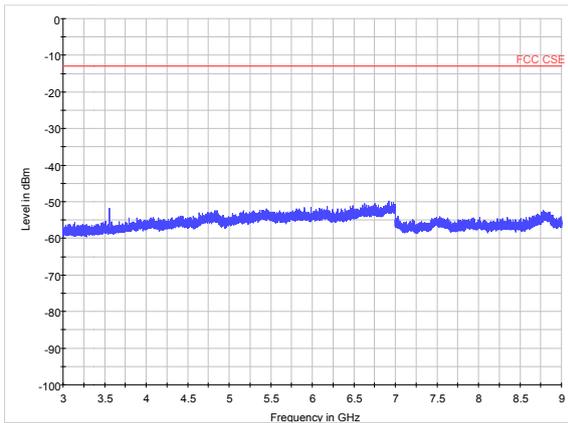
LTE Band 12 10MHz CH23060 30MHz~1GHz



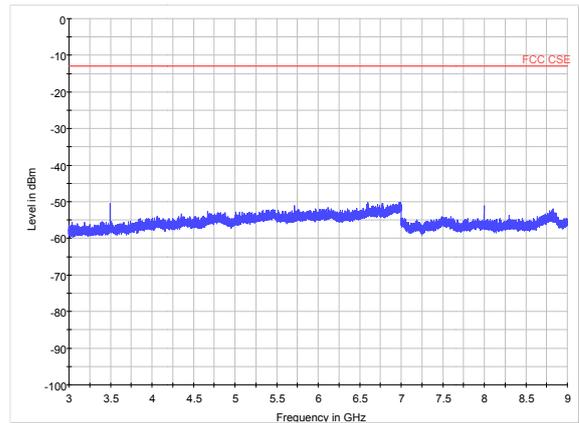
LTE Band 12 5MHz CH23155 1GHz~3GHz



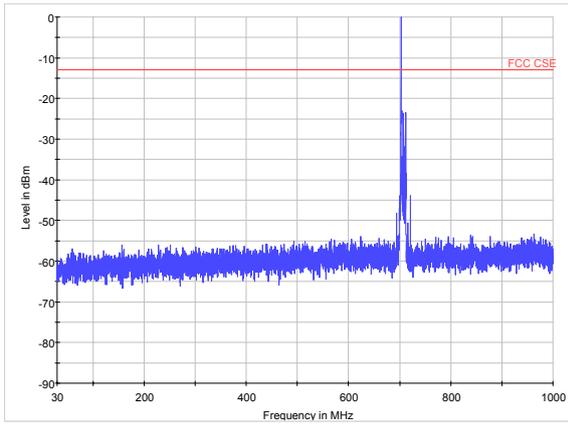
LTE Band 12 10MHz CH23060 1.5GHz~9GHz



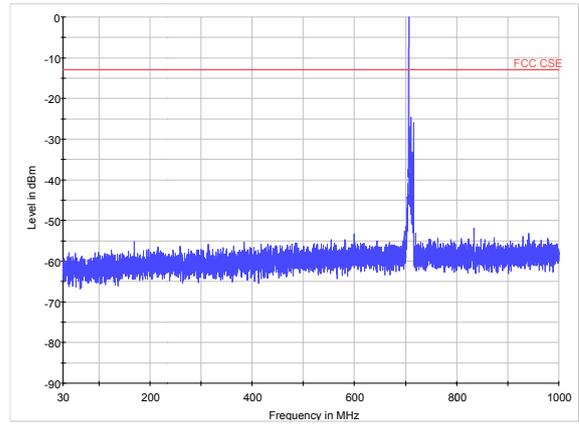
LTE Band 12 5MHz CH23155 3GHz~9GHz



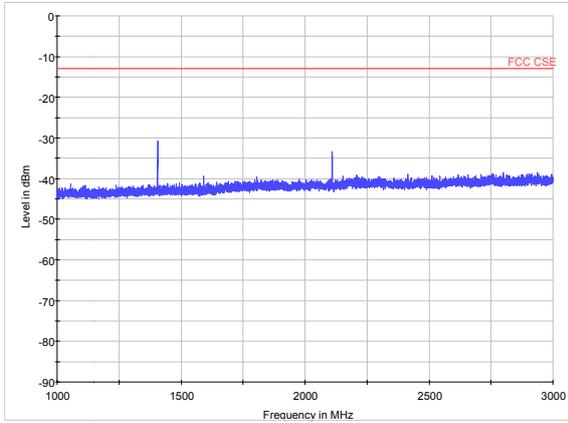
LTE Band 12 10MHz CH23060 1.5GHz~9GHz



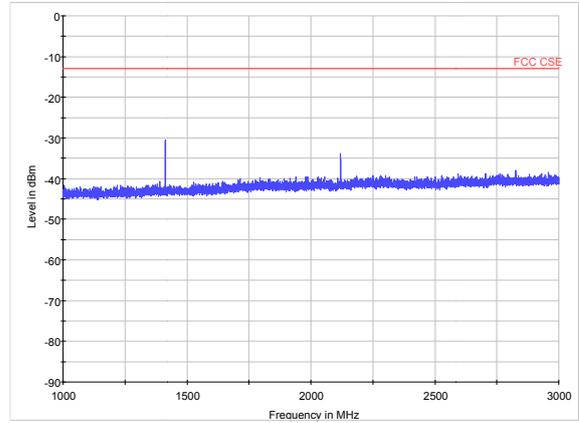
LTE Band 12 10MHz CH23095 30MHz~1GHz



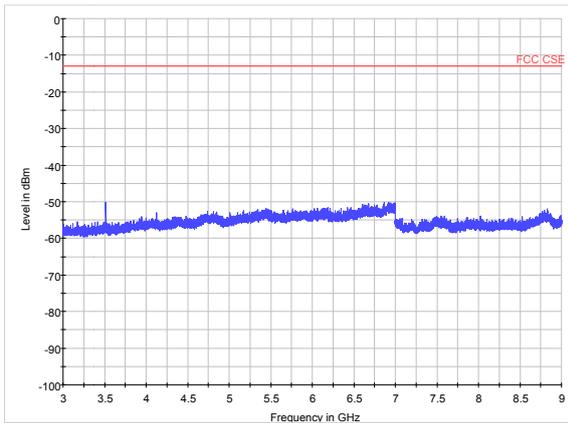
LTE Band 12 10MHz CH23130 30MHz~1GHz



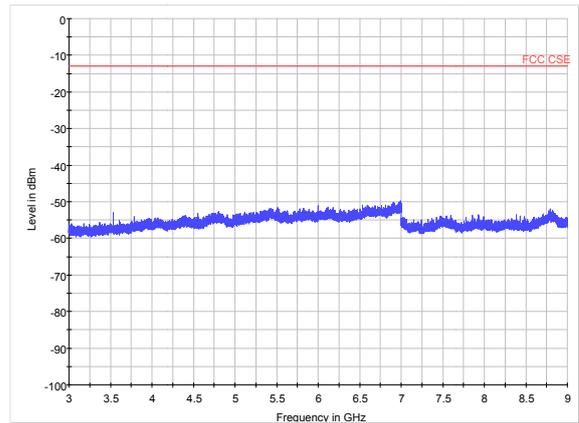
LTE Band 12 10MHz CH23095 1GHz~3GHz



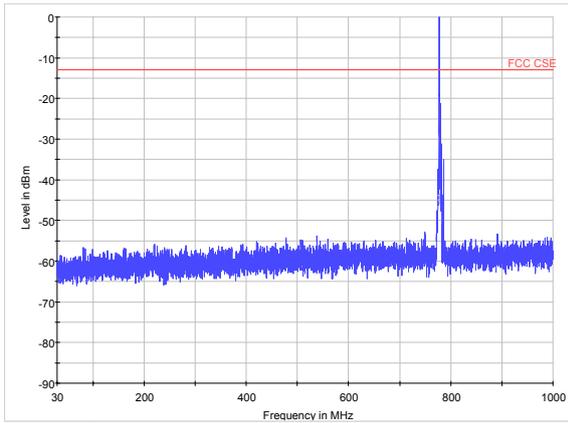
LTE Band 12 10MHz CH23130 1GHz~3GHz



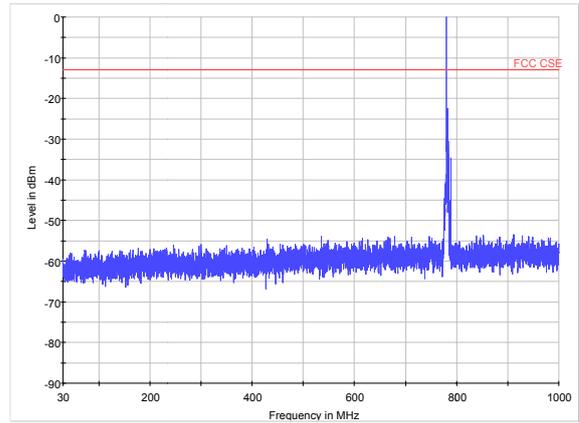
LTE Band 12 10MHz CH23095 3GHz~9GHz



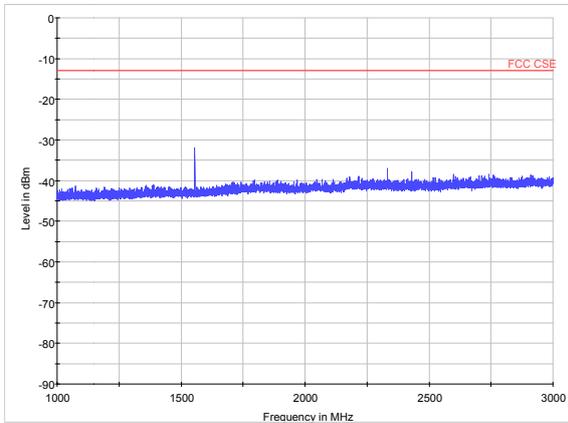
LTE Band 12 10MHz CH23130 3GHz~9GHz



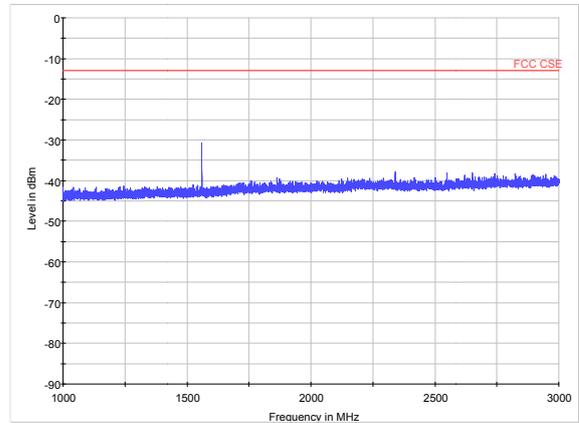
LTE Band 13 5MHz CH23205 30MHz~1GHz



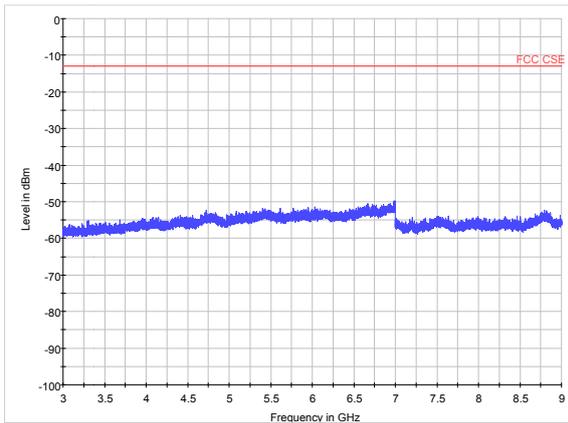
LTE Band 13 5MHz CH23230 30MHz~1GHz



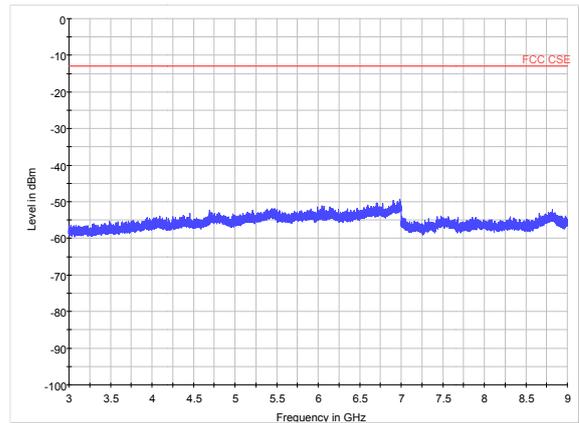
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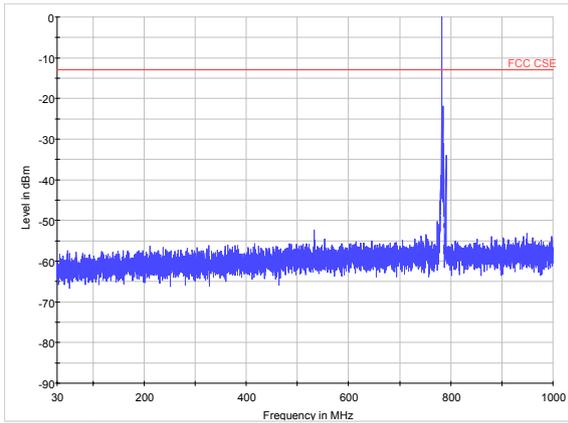
LTE Band 13 5MHz CH23230 1GHz~3GHz



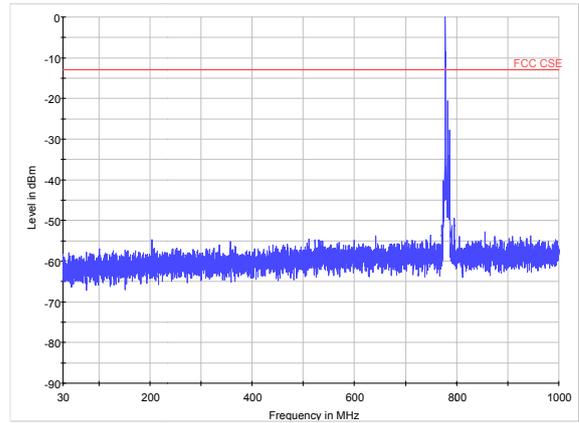
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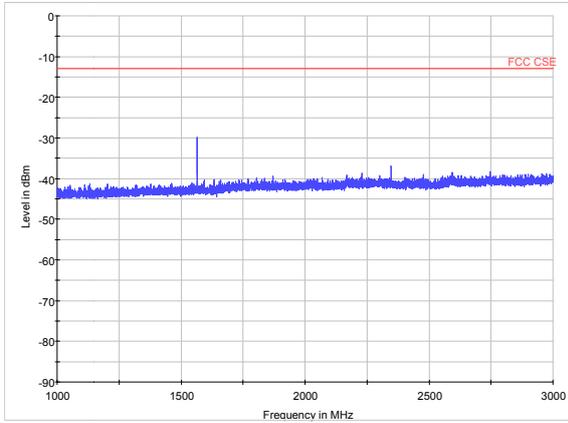
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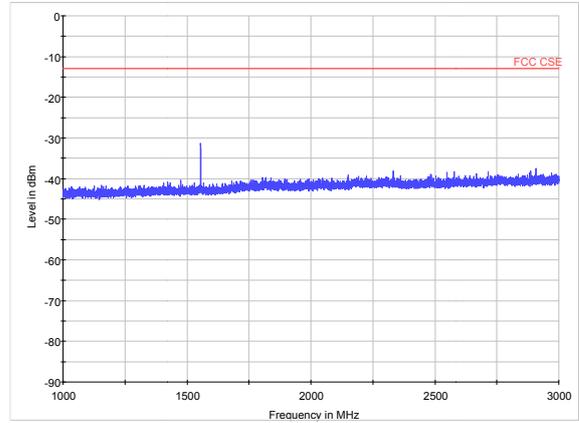
LTE Band 13 5MHz CH23255 30MHz~1.5GHz



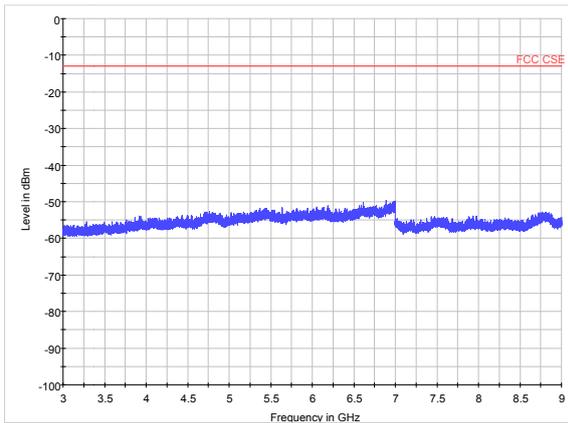
LTE Band 13 10MHz CH23230 30MHz~1.5GHz



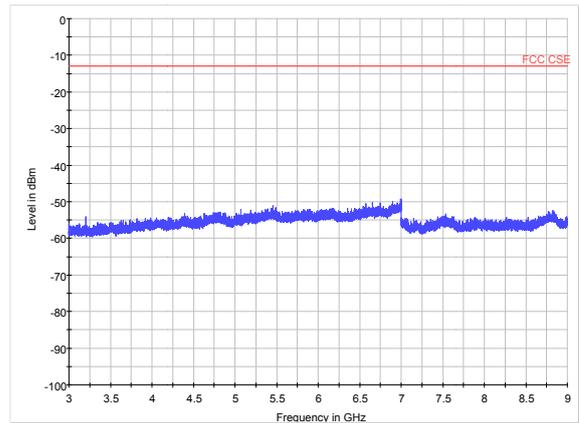
LTE Band 13 5MHz CH23255 1GHz~3GHz



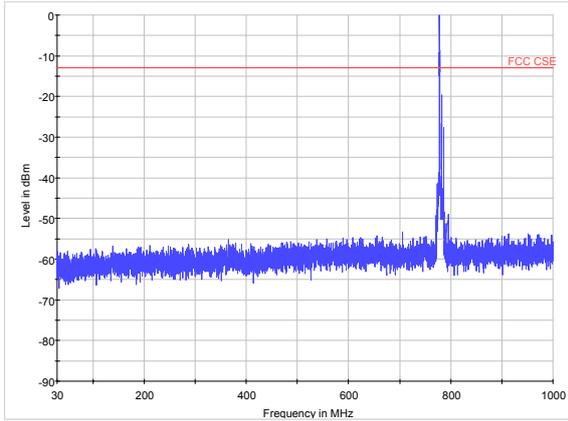
LTE Band 13 10MHz CH23230 1GHz~3GHz



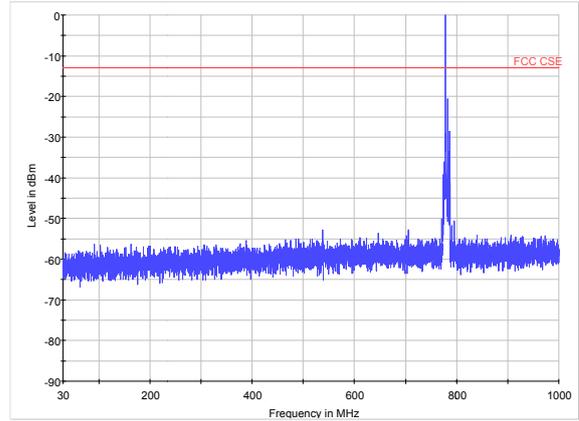
LTE Band 13 5MHz CH23255 3GHz~9GHz



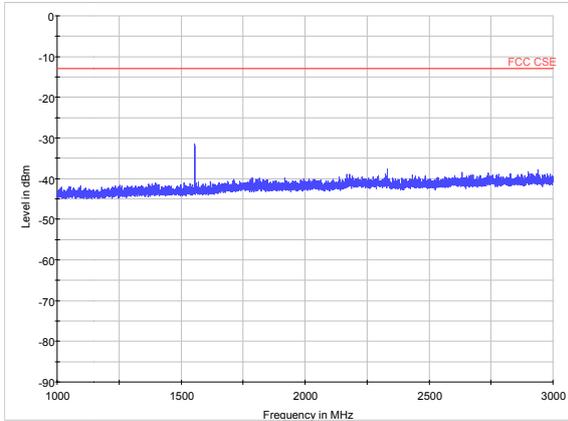
LTE Band 13 10MHz CH23230 3GHz~9GHz



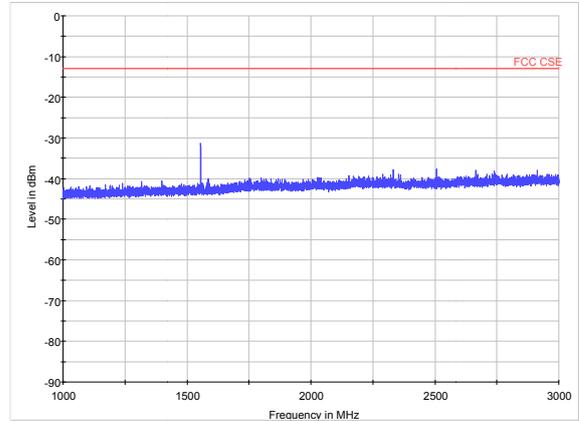
LTE Band 13 10MHz CH23230 30MHz~1.5GHz



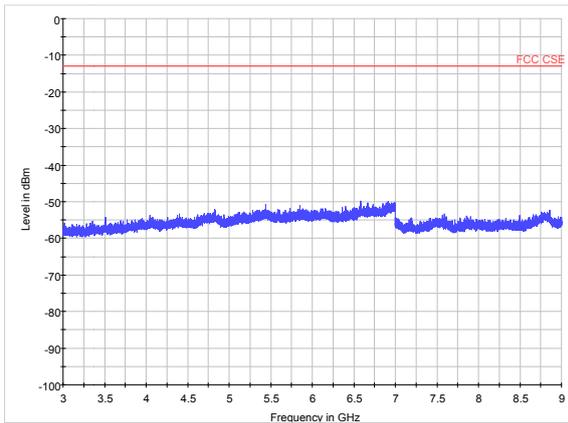
LTE Band 13 10MHz CH23230 30MHz~1.5GHz



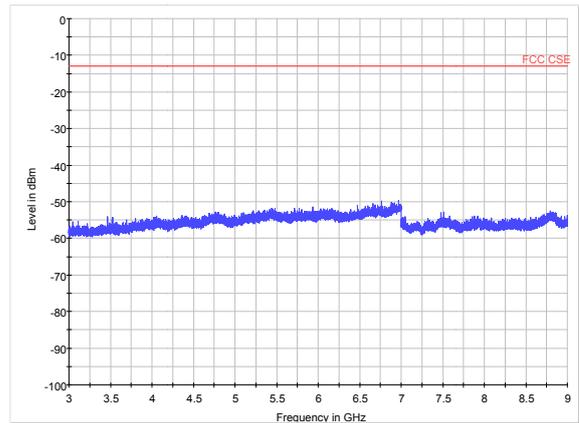
LTE Band 13 10MHz CH23230 1GHz~3GHz



LTE Band 13 10MHz CH23230 1GHz~3GHz



LTE Band 13 10MHz CH23230 3GHz~9GHz



LTE Band 13 10MHz CH23230 3GHz~9GHz

## 5.8 Radiates Spurious Emission

### Ambient condition

Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

### Method of Measurement

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. Above 30MHz: The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H). Above 1GHz: (Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.) The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).
3. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
4. The EUT is then put into continuously transmitting mode at its maximum power level during the test. Set Test Receiver or Spectrum RBW=1MHz, VBW=3MHz for above 1GHz and RBW=100kHz, VBW=300kHz for 30MHz to 1GHz,, And the maximum value of the receiver should be recorded as (Pr).
5. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (PMea) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
6. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Pcl) ,the Substitution Antenna Gain (Ga) and the Amplifier Gain (PAg) should be recorded after test.
7. The measurement results are obtained as described below:  

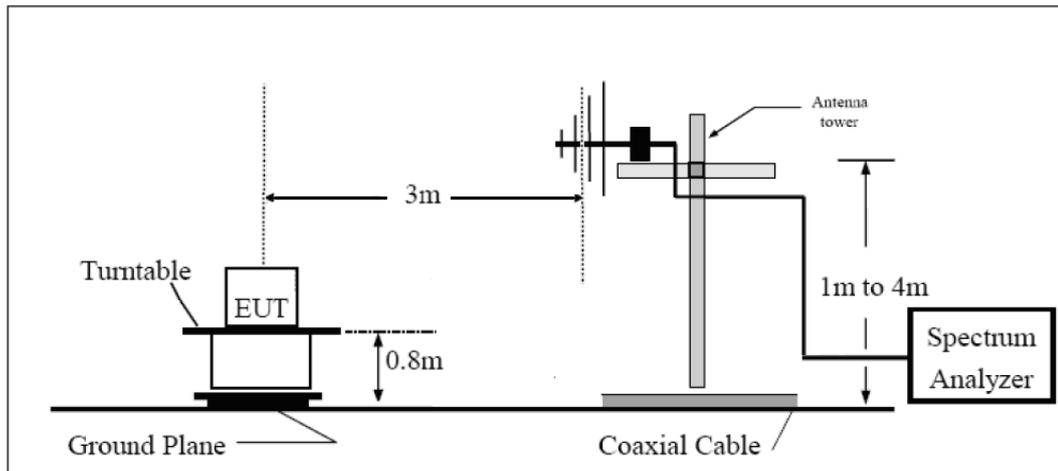
$$\text{Power(EIRP)} = \text{PMea} - \text{PAg} - \text{Pcl} + \text{Ga}$$
The measurement results are amend as described below:  

$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi)

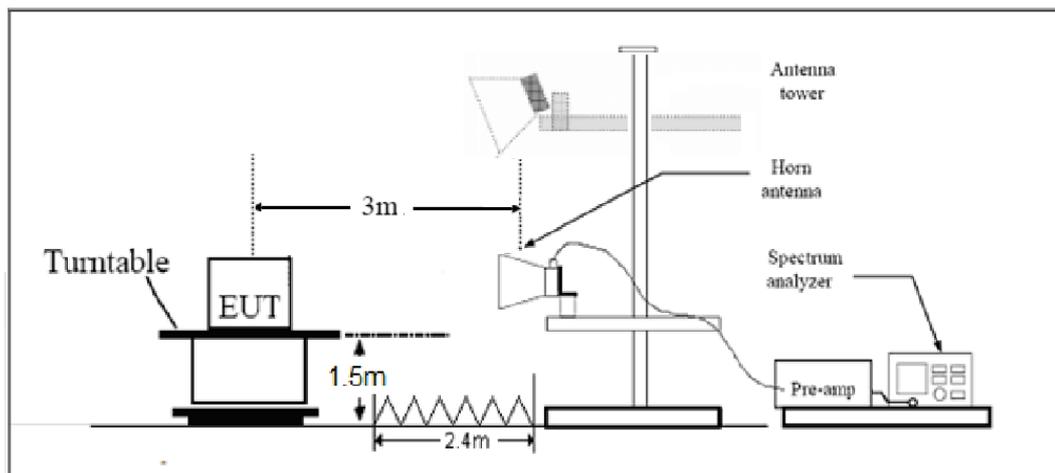
and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15\text{dBi}$ .

**Test setup**

**30MHz~~~ 1GHz**



**Above 1GHz**



Note: Area side:2.4mX3.6m

**Limits**

LTE -4/12/13 specifies that “the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB.”

LTE 13 Rule Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

LTE -7 Rule Part 27.53(m)  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(4) of this section.

LTE 4/12/13 Limit	-13 dBm
LTE 7 Limit	-25 dBm
LTE 13 Limit	< -70 dBW/MHz (-40dbm) (for wide band signals) < -80 dBW/MHz(-50dbm)(for discrete emissions of less than 700 Hz bandwidth.) for all emissions in band1559-1610 MHz

**Measurement Uncertainty**

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = \pm 1.96$ ,  $U = \pm 3.55$  dB.

**Test Result**

LTE Band 4 QPSK Bandwidth = 1.4MHz CH19957, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3420.0	-57.65	2.6	10.15	Vertical	-50.1	-25.0	25.1	90
3	5131.3	-42.45	2.4	11.35	Vertical	-33.5	-25.0	8.5	45
4	6842.8	-45.85	4.5	10.85	Vertical	-39.5	-25.0	14.5	180
5	8553.5	-47.95	5.1	11.35	Vertical	-41.7	-25.0	16.7	225
6	10264.2	-45.95	5.3	11.95	Vertical	-39.3	-25.0	14.3	135
7	11974.9	-46.25	5.5	13.55	Vertical	-38.2	-25.0	13.2	225
8	13685.6	-43.35	6.3	13.75	Vertical	-35.9	-25.0	10.9	90
9	15396.3	-44.65	6.7	13.85	Vertical	-37.5	-25.0	12.5	90
10	17107.0	-41.95	6.8	14.25	Vertical	-34.5	-25.0	9.5	45

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 4 QPSK Bandwidth = 1.4MHz CH20175, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3463.8	-58.55	2.6	10.75	Vertical	-50.4	-25.0	25.4	180
3	5196.3	-42.45	2.4	11.05	Vertical	-33.8	-25.0	8.8	45
4	6930.0	-46.25	4.5	11.15	Vertical	-39.6	-25.0	14.6	0



5	8662.5	-47.35	5.1	11.35	Vertical	-41.1	-25.0	16.1	135
6	10395.0	-44.65	5.3	11.95	Vertical	-38.0	-25.0	13.0	225
7	12127.5	-46.65	5.5	13.55	Vertical	-38.6	-25.0	13.6	315
8	13860.0	-43.05	6.3	13.75	Vertical	-35.6	-25.0	10.6	270
9	15592.5	-45.15	6.7	13.85	Vertical	-38.0	-25.0	13.0	225
10	17325.0	-43.85	6.8	14.25	Vertical	-36.4	-25.0	11.4	135

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 4 QPSK Bandwidth = 1.4MHz CH20393, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3507.8	-57.05	2.6	10.15	Vertical	-49.5	-25.0	24.5	225
3	5261.6	-44.35	2.4	11.05	Vertical	-35.7	-25.0	10.7	90
4	7017.2	-48.75	4.5	11.15	Vertical	-42.1	-25.0	17.1	90
5	8771.5	-47.25	5.1	11.35	Vertical	-41.0	-25.0	16.0	45
6	10525.8	-44.45	5.3	11.95	Vertical	-37.8	-25.0	12.8	180
7	12280.1	-46.65	5.5	13.55	Vertical	-38.6	-25.0	13.6	225
8	14034.4	-42.55	6.3	13.75	Vertical	-35.1	-25.0	10.1	135
9	15788.7	-44.75	6.7	13.85	Vertical	-37.6	-25.0	12.6	225
10	17543.0	-43.05	6.8	14.25	Vertical	-35.6	-25.0	10.6	90

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 4 QPSK Bandwidth = 3MHz CH19965, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3420.0	-57.85	2.6	10.15	Vertical	-50.3	-25.0	25.3	90
3	5131.1	-45.05	2.4	11.35	Vertical	-36.1	-25.0	11.1	45
4	6846.0	-45.35	4.5	10.85	Vertical	-39.0	-25.0	14.0	180
5	8557.5	-48.15	5.1	11.35	Vertical	-41.9	-25.0	16.9	45
6	10269.0	-46.55	5.3	11.95	Vertical	-39.9	-25.0	14.9	0
7	11980.5	-44.75	5.5	13.55	Vertical	-36.7	-25.0	11.7	135
8	13692.0	-43.35	6.3	13.75	Vertical	-35.9	-25.0	10.9	225
9	15403.5	-44.25	6.7	13.85	Vertical	-37.1	-25.0	12.1	315
10	17115.0	-42.35	6.8	14.25	Vertical	-34.9	-25.0	9.9	270

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 4 QPSK Bandwidth = 3MHz CH20175, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3462.4	-59.15	2.6	10.75	Vertical	-51.0	-25.0	26.0	225
3	5193.8	-41.95	2.4	11.05	Vertical	-33.3	-25.0	8.3	135
4	6930.0	-45.15	4.5	11.15	Vertical	-38.5	-25.0	13.5	225
5	8662.5	-47.85	5.1	11.35	Vertical	-41.6	-25.0	16.6	90
6	10395.0	-46.05	5.3	11.95	Vertical	-39.4	-25.0	14.4	90
7	12127.5	-45.75	5.5	13.55	Vertical	-37.7	-25.0	12.7	45
8	13860.0	-43.35	6.3	13.75	Vertical	-35.9	-25.0	10.9	180
9	15592.5	-44.95	6.7	13.85	Vertical	-37.8	-25.0	12.8	225
10	17325.0	-41.85	6.8	14.25	Vertical	-34.4	-25.0	9.4	135

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 4 QPSK Bandwidth = 3MHz CH20385, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3505.1	-57.25	2.6	10.15	Vertical	-49.7	-25.0	24.7	225
3	5256.8	-43.85	2.4	11.05	Vertical	-35.2	-25.0	10.2	90
4	7014.0	-42.65	4.5	11.15	Vertical	-36.0	-25.0	11.0	90
5	8767.5	-48.55	5.1	11.35	Vertical	-42.3	-25.0	17.3	45
6	10521.0	-44.45	5.3	11.95	Vertical	-37.8	-25.0	12.8	180
7	12274.5	-45.95	5.5	13.55	Vertical	-37.9	-25.0	12.9	45
8	14028.0	-42.75	6.3	13.75	Vertical	-35.3	-25.0	10.3	0
9	15781.5	-45.25	6.7	13.85	Vertical	-38.1	-25.0	13.1	135
10	17535.0	-43.45	6.8	14.25	Vertical	-36.0	-25.0	11.0	225

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 4 QPSK Bandwidth = 5MHz CH19975, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3420.4	-56.95	2.6	10.15	Vertical	-49.4	-25.0	24.4	315
3	5131.1	-44.65	2.4	11.35	Vertical	-35.7	-25.0	10.7	270
4	6850.0	-43.85	4.5	10.85	Vertical	-37.5	-25.0	12.5	225
5	8562.5	-47.35	5.1	11.35	Vertical	-41.1	-25.0	16.1	135
6	10275.0	-47.25	5.3	11.95	Vertical	-40.6	-25.0	15.6	225
7	11987.5	-45.25	5.5	13.55	Vertical	-37.2	-25.0	12.2	90
8	13700.0	-42.85	6.3	13.75	Vertical	-35.4	-25.0	10.4	90
9	15412.5	-45.45	6.7	13.85	Vertical	-38.3	-25.0	13.3	45
10	17125.0	-42.35	6.8	14.25	Vertical	-34.9	-25.0	9.9	180

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 4 QPSK Bandwidth = 5MHz CH20175, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.0	-60.05	2.6	10.75	Vertical	-51.9	-25.0	26.9	225
3	5190.8	-42.65	2.4	11.05	Vertical	-34.0	-25.0	9.0	135
4	6930.0	-44.25	4.5	11.15	Vertical	-37.6	-25.0	12.6	225
5	8662.5	-46.85	5.1	11.35	Vertical	-40.6	-25.0	15.6	90
6	10395.0	-46.85	5.3	11.95	Vertical	-40.2	-25.0	15.2	90
7	12127.5	-45.05	5.5	13.55	Vertical	-37.0	-25.0	12.0	45
8	13860.0	-42.65	6.3	13.75	Vertical	-35.2	-25.0	10.2	180
9	15592.5	-46.25	6.7	13.85	Vertical	-39.1	-25.0	14.1	45
10	17325.0	-40.85	6.8	14.25	Vertical	-33.4	-25.0	8.4	0

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 4 QPSK Bandwidth = 5MHz CH20375, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3501.0	-57.25	2.6	10.15	Vertical	-49.7	-25.0	24.7	135
3	5251.1	-43.65	2.4	11.05	Vertical	-35.0	-25.0	10.0	225
4	7010.0	-45.35	4.5	11.15	Vertical	-38.7	-25.0	13.7	315
5	8762.5	-46.15	5.1	11.35	Vertical	-39.9	-25.0	14.9	270
6	10515.0	-45.55	5.3	11.95	Vertical	-38.9	-25.0	13.9	225
7	12267.5	-47.35	5.5	13.55	Vertical	-39.3	-25.0	14.3	135
8	14020.0	-42.25	6.3	13.75	Vertical	-34.8	-25.0	9.8	225
9	15772.5	-43.95	6.7	13.85	Vertical	-36.8	-25.0	11.8	90
10	17525.0	-42.55	6.8	14.25	Vertical	-35.1	-25.0	10.1	90

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 4 QPSK Bandwidth = 10MHz CH20000, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3421.1	-56.35	2.6	10.15	Vertical	-48.8	-25.0	23.8	45
3	5131.9	-44.35	2.4	11.35	Vertical	-35.4	-25.0	10.4	180
4	6860.0	-46.85	4.5	10.85	Vertical	-40.5	-25.0	15.5	0
5	8575.0	-48.15	5.1	11.35	Vertical	-41.9	-25.0	16.9	135
6	10290.0	-46.85	5.3	11.95	Vertical	-40.2	-25.0	15.2	225
7	12005.0	-47.45	5.5	13.55	Vertical	-39.4	-25.0	14.4	315
8	13720.0	-43.25	6.3	13.75	Vertical	-35.8	-25.0	10.8	270
9	15435.0	-44.45	6.7	13.85	Vertical	-37.3	-25.0	12.3	225
10	17150.0	-43.05	6.8	14.25	Vertical	-35.6	-25.0	10.6	135

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 4 QPSK Bandwidth = 10MHz CH20175, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.0	-59.15	2.6	10.75	Vertical	-51.0	-25.0	26.0	225
3	5184.4	-43.25	2.4	11.05	Vertical	-34.6	-25.0	9.6	90
4	6930.0	-44.05	4.5	11.15	Vertical	-37.4	-25.0	12.4	90
5	8662.5	-46.45	5.1	11.35	Vertical	-40.2	-25.0	15.2	45
6	10395.0	-45.65	5.3	11.95	Vertical	-39.0	-25.0	14.0	180
7	12127.5	-47.25	5.5	13.55	Vertical	-39.2	-25.0	14.2	225
8	13860.0	-42.95	6.3	13.75	Vertical	-35.5	-25.0	10.5	135
9	15592.5	-45.45	6.7	13.85	Vertical	-38.3	-25.0	13.3	225
10	17325.0	-42.95	6.8	14.25	Vertical	-35.5	-25.0	10.5	90

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 4 QPSK Bandwidth = 10MHz CH20350, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3491.3	-56.65	2.6	10.15	Vertical	-49.1	-25.0	24.1	90
3	5236.5	-46.65	2.4	11.05	Vertical	-38.0	-25.0	13.0	45
4	7000.0	-47.55	4.5	11.15	Vertical	-40.9	-25.0	15.9	180
5	8750.0	-46.65	5.1	11.35	Vertical	-40.4	-25.0	15.4	45
6	10500.0	-46.45	5.3	11.95	Vertical	-39.8	-25.0	14.8	0
7	12250.0	-47.65	5.5	13.55	Vertical	-39.6	-25.0	14.6	135
8	14000.0	-42.95	6.3	13.75	Vertical	-35.5	-25.0	10.5	225
9	15750.0	-45.25	6.7	13.85	Vertical	-38.1	-25.0	13.1	315
10	17500.0	-43.15	6.8	14.25	Vertical	-35.7	-25.0	10.7	270

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 4 QPSK Bandwidth = 15MHz CH20025, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3435.0	-56.95	2.6	10.15	Vertical	-49.4	-25.0	24.4	225
3	5152.5	-45.05	2.4	11.35	Vertical	-36.1	-25.0	11.1	135
4	6870.0	-42.35	4.5	10.85	Vertical	-36.0	-25.0	11.0	225
5	8587.5	-47.05	5.1	11.35	Vertical	-40.8	-25.0	15.8	0
6	10305.0	-48.15	5.3	11.95	Vertical	-41.5	-25.0	16.5	135
7	12022.5	-47.15	5.5	13.55	Vertical	-39.1	-25.0	14.1	225
8	13740.0	-44.05	6.3	13.75	Vertical	-36.6	-25.0	11.6	315
9	15457.5	-45.05	6.7	13.85	Vertical	-37.9	-25.0	12.9	270
10	17175.0	-43.05	6.8	14.25	Vertical	-35.6	-25.0	10.6	225

- 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 4 QPSK Bandwidth = 15MHz CH20175, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.0	-59.75	2.6	10.75	Vertical	-51.6	-25.0	26.6	135
3	5177.6	-44.55	2.4	11.05	Vertical	-35.9	-25.0	10.9	225
4	6930.0	-43.65	4.5	11.15	Vertical	-37.0	-25.0	12.0	90
5	8662.5	-48.35	5.1	11.35	Vertical	-42.1	-25.0	17.1	90
6	10395.0	-45.35	5.3	11.95	Vertical	-38.7	-25.0	13.7	45
7	12127.5	-46.65	5.5	13.55	Vertical	-38.6	-25.0	13.6	180
8	13860.0	-43.25	6.3	13.75	Vertical	-35.8	-25.0	10.8	225
9	15592.5	-44.85	6.7	13.85	Vertical	-37.7	-25.0	12.7	135
10	17325.0	-43.15	6.8	14.25	Vertical	-35.7	-25.0	10.7	225

- 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 4 QPSK Bandwidth = 15MHz CH20325, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3481.5	-57.15	2.6	10.15	Vertical	-49.6	-25.0	24.6	90
3	5222.6	-45.45	2.4	11.05	Vertical	-36.8	-25.0	11.8	90
4	6990.0	-40.05	4.5	11.15	Vertical	-33.4	-25.0	8.4	45
5	8737.5	-48.35	5.1	11.35	Vertical	-42.1	-25.0	17.1	180
6	10485.0	-45.65	5.3	11.95	Vertical	-39.0	-25.0	14.0	45
7	12232.5	-47.25	5.5	13.55	Vertical	-39.2	-25.0	14.2	0
8	13980.0	-42.95	6.3	13.75	Vertical	-35.5	-25.0	10.5	135
9	15727.5	-45.45	6.7	13.85	Vertical	-38.3	-25.0	13.3	225
10	17475.0	-42.95	6.8	14.25	Vertical	-35.5	-25.0	10.5	315

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 4 QPSK Bandwidth = 20MHz CH20050, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3422.3	-55.95	2.6	10.15	Vertical	-48.4	-25.0	23.4	270
3	5133.4	-45.45	2.4	11.35	Vertical	-36.5	-25.0	11.5	225
4	6880.0	-42.35	4.5	10.85	Vertical	-36.0	-25.0	11.0	135
5	8600.0	-47.35	5.1	11.35	Vertical	-41.1	-25.0	16.1	225
6	10320.0	-44.65	5.3	11.95	Vertical	-38.0	-25.0	13.0	0
7	12040.0	-46.65	5.5	13.55	Vertical	-38.6	-25.0	13.6	135
8	13760.0	-43.05	6.3	13.75	Vertical	-35.6	-25.0	10.6	225
9	15480.0	-45.15	6.7	13.85	Vertical	-38.0	-25.0	13.0	315
10	17200.0	-43.85	6.8	14.25	Vertical	-36.4	-25.0	11.4	270

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 4 QPSK Bandwidth = 20MHz CH20175, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.0	-58.85	2.6	10.75	Vertical	-50.7	-25.0	25.7	225
3	5170.5	-45.45	2.4	11.05	Vertical	-36.8	-25.0	11.8	135
4	6930.0	-42.05	4.5	11.15	Vertical	-35.4	-25.0	10.4	225
5	8662.5	-47.75	5.1	11.35	Vertical	-41.5	-25.0	16.5	90
6	10395.0	-46.95	5.3	11.95	Vertical	-40.3	-25.0	15.3	90
7	12127.5	-44.95	5.5	13.55	Vertical	-36.9	-25.0	11.9	45
8	13860.0	-42.45	6.3	13.75	Vertical	-35.0	-25.0	10.0	180
9	15592.5	-44.25	6.7	13.85	Vertical	-37.1	-25.0	12.1	225
10	17325.0	-42.45	6.8	14.25	Vertical	-35.0	-25.0	10.0	135

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 4 QPSK Bandwidth = 20MHz CH20300, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3472.1	-57.55	2.6	10.15	Vertical	-50.0	-25.0	25.0	225
3	5208.4	-44.45	2.4	11.05	Vertical	-35.8	-25.0	10.8	90
4	6980.0	-42.05	4.5	11.15	Vertical	-35.4	-25.0	10.4	90
5	8725.0	-47.75	5.1	11.35	Vertical	-41.5	-25.0	16.5	45
6	10470.0	-46.95	5.3	11.95	Vertical	-40.3	-25.0	15.3	180
7	12215.0	-44.95	5.5	13.55	Vertical	-36.9	-25.0	11.9	45
8	13960.0	-42.45	6.3	13.75	Vertical	-35.0	-25.0	10.0	0
9	15705.0	-44.25	6.7	13.85	Vertical	-37.1	-25.0	12.1	135
10	17450.0	-42.45	6.8	14.25	Vertical	-35.0	-25.0	10.0	225

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 7 QPSK Bandwidth = 5MHz CH20775, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5000.6	-50.45	2.00	9.15	Vertical	-43.3	-25.0	18.3	270
3	7501.1	-48.15	2.50	11.35	Vertical	-39.3	-25.0	14.3	225
4	10001.3	-42.45	4.20	12.05	Vertical	-34.6	-25.0	9.6	135
5	12512.5	-46.55	5.20	12.85	Vertical	-38.9	-25.0	13.9	225
6	15015.0	-45.03	5.50	14.23	Vertical	-36.3	-25.0	11.3	0
7	17517.5	-43.55	5.70	14.15	Vertical	-35.1	-25.0	10.1	135
8	20002.4	-41.96	6.30	13.76	Vertical	-34.5	-25.0	9.5	225
9	22502.7	-41.35	6.80	14.05	Vertical	-34.1	-25.0	9.1	225
10	25003.0	-42.94	6.90	14.84	Vertical	-35.0	-25.0	10.0	315

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 7 QPSK Bandwidth = 5MHz CH21100, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5065.8	-48.95	2.00	9.15	Vertical	-41.8	-25.0	16.8	270
3	7598.6	-47.05	2.50	11.35	Vertical	-38.2	-25.0	13.2	225
4	10130.6	-43.55	4.20	12.05	Vertical	-35.7	-25.0	10.7	135
5	12675.0	-44.95	5.20	12.85	Vertical	-37.3	-25.0	12.3	225
6	15210.0	-44.93	5.50	14.23	Vertical	-36.2	-25.0	11.2	90
7	17745.0	-43.85	5.70	14.15	Vertical	-35.4	-25.0	10.4	90
8	20280.0	-42.56	6.30	13.76	Vertical	-35.1	-25.0	10.1	45
9	22815.0	-41.75	6.80	14.05	Vertical	-34.5	-25.0	9.5	135
10	25350.0	-42.14	6.90	14.84	Vertical	-34.2	-25.0	9.2	180

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 7 QPSK Bandwidth = 5MHz CH21425, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5130.8	-49.15	2.00	9.15	Vertical	-42.0	-25.0	17.0	225
3	7696.1	-49.75	2.50	11.35	Vertical	-40.9	-25.0	15.9	135
4	10261.1	-43.05	4.20	12.05	Vertical	-35.2	-25.0	10.2	225
5	12837.5	-45.95	5.20	12.85	Vertical	-38.3	-25.0	13.3	90
6	15405.0	-47.73	5.50	14.23	Vertical	-39.0	-25.0	14.0	90
7	17972.5	-42.45	5.70	14.15	Vertical	-34.0	-25.0	9.0	45
8	20540.0	-41.56	6.30	13.76	Vertical	-34.1	-25.0	9.1	180
9	23107.5	-41.15	6.80	14.05	Vertical	-33.9	-25.0	8.9	225
10	25675.0	-41.14	6.90	14.84	Vertical	-33.2	-25.0	8.2	45

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 7 QPSK Bandwidth = 10MHz CH20800, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5001.0	-50.35	2.00	9.15	Vertical	-43.2	-25.0	18.2	0
3	7515.0	-50.85	2.50	11.35	Vertical	-42.0	-25.0	17.0	135
4	10002.4	-42.25	4.20	12.05	Vertical	-34.4	-25.0	9.4	225
5	12525.0	-47.45	5.20	12.85	Vertical	-39.8	-25.0	14.8	315
6	15030.0	-44.03	5.50	14.23	Vertical	-35.3	-25.0	10.3	270
7	17535.0	-42.75	5.70	14.15	Vertical	-34.3	-25.0	9.3	225
8	20040.0	-41.56	6.30	13.76	Vertical	-34.1	-25.0	9.1	135
9	22545.0	-40.75	6.80	14.05	Vertical	-33.5	-25.0	8.5	225
10	25050.0	-41.14	6.90	14.84	Vertical	-33.2	-25.0	8.2	225

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 7 QPSK Bandwidth = 10MHz CH21100, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5070.0	-49.45	2.00	9.15	Vertical	-42.3	-25.0	17.3	0
3	75915.0	-48.55	2.50	11.35	Vertical	-39.7	-25.0	14.7	135
4	10140.0	-48.25	4.20	12.05	Vertical	-40.4	-25.0	15.4	225
5	12675.0	-46.15	5.20	12.85	Vertical	-38.5	-25.0	13.5	315
6	15210.0	-45.23	5.50	14.23	Vertical	-36.5	-25.0	11.5	270
7	17745.0	-44.85	5.70	14.15	Vertical	-36.4	-25.0	11.4	225
8	20280.0	-42.66	6.30	13.76	Vertical	-35.2	-25.0	10.2	135
9	22815.0	-42.45	6.80	14.05	Vertical	-35.2	-25.0	10.2	135
10	25350.0	-43.04	6.90	14.84	Vertical	-35.1	-25.0	10.1	225

- 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 7 QPSK Bandwidth = 10MHz CH21400, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5121.4	-51.95	2.00	10.15	Vertical	-43.8	-25.0	18.8	90
3	7681.9	-48.95	2.50	11.35	Vertical	-40.1	-25.0	15.1	90
4	10242.0	-45.35	4.20	12.05	Vertical	-37.5	-25.0	12.5	45
5	12825.0	-49.35	5.20	14.85	Vertical	-39.7	-25.0	14.7	180
6	15390.0	-45.93	5.50	13.23	Vertical	-38.2	-25.0	13.2	225
7	17955.0	-44.05	5.70	12.15	Vertical	-37.6	-25.0	12.6	135
8	20520.0	-43.56	6.30	13.76	Vertical	-36.1	-25.0	11.1	225
9	23085.0	-42.75	6.80	14.05	Vertical	-35.5	-25.0	10.5	0
10	25650.0	-42.04	6.90	14.84	Vertical	-34.1	-25.0	9.1	90

- 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 7 QPSK Bandwidth = 15MHz CH20825, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5001.8	-48.85	2.00	10.15	Vertical	-40.7	-25.0	15.7	90
3	7502.6	-48.95	2.50	11.35	Vertical	-40.1	-25.0	15.1	45
4	1000.4	-44.05	4.20	12.05	Vertical	-36.2	-25.0	11.2	180
5	12537.5	-51.45	5.20	14.85	Vertical	-41.8	-25.0	16.8	45
6	15045.0	-46.63	5.50	13.23	Vertical	-38.9	-25.0	13.9	0
7	17552.5	-44.15	5.70	12.15	Vertical	-37.7	-25.0	12.7	135
8	20060.0	-43.56	6.30	13.76	Vertical	-36.1	-25.0	11.1	225
9	22567.5	-42.35	6.80	14.05	Vertical	-35.1	-25.0	10.1	45
10	25075.0	-42.14	6.90	14.84	Vertical	-34.2	-25.0	9.2	315

- 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 7 QPSK Bandwidth = 15MHz CH21100, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5056.9	-50.55	2.00	10.15	Vertical	-42.4	-25.0	17.4	270
3	7584.8	-45.95	2.50	11.35	Vertical	-37.1	-25.0	12.1	225
4	10140.0	-48.65	4.20	12.05	Vertical	-40.8	-25.0	15.8	135
5	12675.0	-49.15	5.20	14.85	Vertical	-39.5	-25.0	14.5	225
6	15210.0	-45.33	5.50	13.23	Vertical	-37.6	-25.0	12.6	0
7	17745.0	-43.85	5.70	12.15	Vertical	-37.4	-25.0	12.4	135
8	20280.0	-41.96	6.30	13.76	Vertical	-34.5	-25.0	9.5	45
9	22815.0	-41.45	6.80	14.05	Vertical	-34.2	-25.0	9.2	90
10	25350.0	-43.04	6.90	14.84	Vertical	-35.1	-25.0	10.1	225

- 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 7 QPSK Bandwidth = 15MHz CH21375, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5112.0	-48.45	2.00	10.15	Vertical	-40.3	-25.0	15.3	315
3	7667.3	-44.35	2.50	11.35	Vertical	-35.5	-25.0	10.5	270
4	10250.0	-48.45	4.20	12.05	Vertical	-40.6	-25.0	15.6	225
5	12812.5	-49.95	5.20	14.85	Vertical	-40.3	-25.0	15.3	135
6	15375.0	-46.93	5.50	13.23	Vertical	-39.2	-25.0	14.2	225
7	17937.5	-43.85	5.70	12.15	Vertical	-37.4	-25.0	12.4	90
8	20500.0	-43.56	6.30	13.76	Vertical	-36.1	-25.0	11.1	0
9	23062.5	-42.85	6.80	14.05	Vertical	-35.6	-25.0	10.6	90
10	25625.0	-43.14	6.90	14.84	Vertical	-35.2	-25.0	10.2	45

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 7 QPSK Bandwidth = 20MHz CH20850, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5002.5	-49.25	2.00	10.15	Vertical	-41.1	-25.0	16.1	180
3	7503.4	-47.05	2.50	11.35	Vertical	-38.2	-25.0	13.2	225
4	10040.0	-44.25	4.20	12.05	Vertical	-36.4	-25.0	11.4	135
5	12550.0	-50.65	5.20	14.85	Vertical	-41.0	-25.0	16.0	225
6	15060.0	-47.13	5.50	13.23	Vertical	-39.4	-25.0	14.4	90
7	17570.0	-44.05	5.70	12.15	Vertical	-37.6	-25.0	12.6	90
8	20080.0	-43.66	6.30	13.76	Vertical	-36.2	-25.0	11.2	135
9	22590.0	-42.25	6.80	14.05	Vertical	-35.0	-25.0	10.0	45
10	25100.0	-42.44	6.90	14.84	Vertical	-34.5	-25.0	9.5	180

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 7 QPSK Bandwidth = 20MHz CH21100, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5052.0	-51.45	2.00	10.15	Vertical	-43.3	-25.0	18.3	45
3	7578.0	-47.55	2.50	11.35	Vertical	-38.7	-25.0	13.7	0
4	10140.0	-49.95	4.20	12.05	Vertical	-42.1	-25.0	17.1	135
5	12675.0	-49.55	5.20	14.85	Vertical	-39.9	-25.0	14.9	225
6	15210.0	-46.53	5.50	13.23	Vertical	-38.8	-25.0	13.8	315
7	17745.0	-44.75	5.70	12.15	Vertical	-38.3	-25.0	13.3	270
8	20280.0	-43.56	6.30	13.76	Vertical	-36.1	-25.0	11.1	225
9	22815.0	-42.45	6.80	14.05	Vertical	-35.2	-25.0	10.2	135
10	25350.0	-42.94	6.90	14.84	Vertical	-35.0	-25.0	10.0	225

- 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 7 QPSK Bandwidth = 20MHz CH21350, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5102.3	-52.05	2.00	10.15	Vertical	-43.9	-25.0	18.9	0
3	7653.4	-46.25	2.50	11.35	Vertical	-37.4	-25.0	12.4	135
4	10240.0	-48.55	4.20	12.05	Vertical	-40.7	-25.0	15.7	225
5	12800.0	-49.05	5.20	14.85	Vertical	-39.4	-25.0	14.4	315
6	15360.0	-45.53	5.50	13.23	Vertical	-37.8	-25.0	12.8	270
7	17920.0	-44.05	5.70	12.15	Vertical	-37.6	-25.0	12.6	225
8	20480.0	-42.66	6.30	13.76	Vertical	-35.2	-25.0	10.2	225
9	23040.0	-42.35	6.80	14.05	Vertical	-35.1	-25.0	10.1	135
10	25600.0	-42.94	6.90	14.84	Vertical	-35.0	-25.0	10.0	225

- 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 QPSK Bandwidth = 1.4MHz CH23017, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1398.0	-54.70	2.00	10.15	Vertical	-48.7	-13.0	35.7	90
3	2189.0	-57.20	2.50	11.35	Vertical	-50.5	-13.0	37.5	45
4	2796.8	-53.00	4.20	10.85	Vertical	-48.5	-13.0	35.5	180
5	3648.5	-53.90	5.20	11.35	Vertical	-49.9	-13.0	36.9	45
6	4378.2	-52.40	5.50	11.95	Vertical	-48.1	-13.0	35.1	180
7	5107.9	-50.80	5.70	13.55	Vertical	-45.1	-13.0	32.1	45
8	5837.6	-49.90	6.30	13.75	Vertical	-44.6	-13.0	31.6	0
9	6567.3	-48.40	6.80	13.85	Vertical	-43.5	-13.0	30.5	135
10	7297.0	-46.90	6.90	14.25	Vertical	-41.7	-13.0	28.7	225

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 QPSK Bandwidth = 1.4MHz CH23095, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1414.0	-55.00	2.00	10.75	Vertical	-48.4	-13.0	35.4	225
3	2212.5	-56.79	2.51	11.05	Vertical	-50.4	-13.0	37.4	135
4	2828.0	-52.00	4.20	11.15	Vertical	-47.2	-13.0	34.2	225
5	3687.5	-54.30	5.20	11.15	Vertical	-50.5	-13.0	37.5	315
6	4425.0	-52.40	5.50	11.95	Vertical	-48.1	-13.0	35.1	270
7	5162.5	-50.00	5.70	13.55	Vertical	-44.3	-13.0	31.3	225
8	5900.0	-50.50	6.30	13.75	Vertical	-45.2	-13.0	32.2	135
9	6637.5	-48.10	6.80	13.85	Vertical	-43.2	-13.0	30.2	225
10	7375.0	-47.20	6.90	14.25	Vertical	-42.0	-13.0	29.0	0

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 QPSK Bandwidth = 1.4MHz CH23173, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1429.5	-50.50	2.00	10.15	Vertical	-44.5	-13.0	31.5	90
3	2218.3	-57.69	2.51	11.05	Vertical	-51.3	-13.0	38.3	90
4	2860.0	-51.60	4.20	11.15	Vertical	-46.8	-13.0	33.8	45
5	3726.5	-53.90	5.20	11.15	Vertical	-50.1	-13.0	37.1	135
6	4471.8	-52.70	5.50	11.95	Vertical	-48.4	-13.0	35.4	225
7	5217.1	-50.00	5.70	13.55	Vertical	-44.3	-13.0	31.3	315
8	5962.4	-50.20	6.30	13.75	Vertical	-44.9	-13.0	31.9	270
9	6707.7	-48.40	6.80	13.85	Vertical	-43.5	-13.0	30.5	225
10	7453.0	-47.30	6.90	14.25	Vertical	-42.1	-13.0	29.1	135

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 QPSK Bandwidth = 3MHz CH23025, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1398.3	-55.60	2.00	10.15	Vertical	-49.6	-13.0	36.6	180
3	2191.5	-57.39	2.51	11.35	Vertical	-50.7	-13.0	37.7	45
4	2796.8	-52.80	4.20	10.85	Vertical	-48.3	-13.0	35.3	0
5	3652.5	-54.40	5.20	11.35	Vertical	-50.4	-13.0	37.4	225
6	4383.0	-52.70	5.50	11.95	Vertical	-48.4	-13.0	35.4	90
7	5113.5	-50.80	5.70	13.55	Vertical	-45.1	-13.0	32.1	90
8	5844.0	-50.70	6.30	13.75	Vertical	-45.4	-13.0	32.4	45
9	6574.5	-48.20	6.80	13.85	Vertical	-43.3	-13.0	30.3	180
10	7305.0	-47.00	6.90	14.25	Vertical	-41.8	-13.0	28.8	225

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 QPSK Bandwidth = 3MHz CH23095, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1412.8	-55.70	2.00	10.75	Vertical	-49.1	-13.0	36.1	135
3	2209.0	-58.09	2.51	11.05	Vertical	-51.7	-13.0	38.7	225
4	2824.8	-51.60	4.20	11.15	Vertical	-46.8	-13.0	33.8	315
5	3687.5	-54.20	5.20	11.15	Vertical	-50.4	-13.0	37.4	135
6	4425.0	-53.00	5.50	11.95	Vertical	-48.7	-13.0	35.7	225
7	5162.5	-50.20	5.70	13.55	Vertical	-44.5	-13.0	31.5	90
8	5900.0	-50.40	6.30	13.75	Vertical	-45.1	-13.0	32.1	90
9	6637.5	-48.80	6.80	13.85	Vertical	-43.9	-13.0	30.9	45
10	7375.0	-46.60	6.90	14.25	Vertical	-41.4	-13.0	28.4	180

- 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 QPSK Bandwidth = 3MHz CH23165, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1426.3	-55.00	2.00	10.15	Vertical	-49.0	-13.0	36.0	270
3	2199.8	-57.29	2.51	11.05	Vertical	-50.9	-13.0	37.9	225
4	2853.0	-49.10	4.20	11.15	Vertical	-44.3	-13.0	31.3	135
5	3722.5	-53.70	5.20	11.15	Vertical	-49.9	-13.0	36.9	45
6	4467.0	-52.60	5.50	11.95	Vertical	-48.3	-13.0	35.3	0
7	5211.5	-50.40	5.70	13.55	Vertical	-44.7	-13.0	31.7	135
8	5956.0	-49.80	6.30	13.75	Vertical	-44.5	-13.0	31.5	225
9	6700.5	-48.30	6.80	13.85	Vertical	-43.4	-13.0	30.4	315
10	7445.0	-46.90	6.90	14.25	Vertical	-41.7	-13.0	28.7	270

- 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 QPSK Bandwidth = 5MHz CH23035, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1398.5	-55.80	2.00	10.15	Vertical	-49.8	-13.0	36.8	225
3	2172.3	-57.10	2.50	11.35	Vertical	-50.4	-13.0	37.4	0
4	2797.3	-52.60	4.20	10.85	Vertical	-48.1	-13.0	35.1	135
5	3657.5	-54.30	5.20	11.35	Vertical	-50.3	-13.0	37.3	225
6	4389.0	-53.20	5.50	11.95	Vertical	-48.9	-13.0	35.9	135
7	5120.5	-50.00	5.70	13.55	Vertical	-44.3	-13.0	31.3	225
8	5852.0	-50.40	6.30	13.75	Vertical	-45.1	-13.0	32.1	0
9	6583.5	-48.50	6.80	13.85	Vertical	-43.6	-13.0	30.6	135
10	7315.0	-46.90	6.90	14.25	Vertical	-41.7	-13.0	28.7	225

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 QPSK Bandwidth = 5MHz CH23095, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1410.7	-56.10	2.00	10.75	Vertical	-49.5	-13.0	36.5	225
3	2182.0	-11.59	2.51	11.05	Vertical	-5.2	-13.0	-7.8	315
4	2821.8	-50.20	4.20	11.15	Vertical	-45.4	-13.0	32.4	270
5	3687.5	-53.60	5.20	11.15	Vertical	-49.8	-13.0	36.8	315
6	4425.0	-53.20	5.50	11.95	Vertical	-48.9	-13.0	35.9	270
7	5162.5	-50.10	5.70	13.55	Vertical	-44.4	-13.0	31.4	225
8	5900.0	-50.50	6.30	13.75	Vertical	-45.2	-13.0	32.2	135
9	6637.5	-48.10	6.80	13.85	Vertical	-43.2	-13.0	30.2	225
10	7375.0	-46.90	6.90	14.25	Vertical	-41.7	-13.0	28.7	90

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 QPSK Bandwidth = 5MHz CH23155, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1422.5	-57.20	2.00	10.15	Vertical	-51.2	-13.0	38.2	225
3	2178.8	-56.89	2.51	11.05	Vertical	-50.5	-13.0	37.5	135
4	2845.5	-50.60	4.20	11.15	Vertical	-45.8	-13.0	32.8	225
5	3717.5	-54.00	5.20	11.15	Vertical	-50.2	-13.0	37.2	90
6	4461.0	-52.40	5.50	11.95	Vertical	-48.1	-13.0	35.1	45
7	5204.5	-50.80	5.70	13.55	Vertical	-45.1	-13.0	32.1	180
8	5948.0	-50.20	6.30	13.75	Vertical	-44.9	-13.0	31.9	225
9	6691.5	-48.50	6.80	13.85	Vertical	-43.6	-13.0	30.6	135
10	7435.0	-47.00	6.90	14.25	Vertical	-41.8	-13.0	28.8	225

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 QPSK Bandwidth = 10MHz CH23060, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1399.5	-57.10	2.00	10.15	Vertical	-51.1	-13.0	38.1	90
3	2188.8	-57.69	2.51	11.35	Vertical	-51.0	-13.0	38.0	90
4	2798.3	-52.10	4.20	10.85	Vertical	-47.6	-13.0	34.6	45
5	3670.0	-54.60	5.20	11.35	Vertical	-50.6	-13.0	37.6	90
6	4404.0	-52.40	5.50	11.95	Vertical	-48.1	-13.0	35.1	90
7	5138.0	-50.20	5.70	13.55	Vertical	-44.5	-13.0	31.5	45
8	5872.0	-50.00	6.30	13.75	Vertical	-44.7	-13.0	31.7	180
9	6606.0	-48.60	6.80	13.85	Vertical	-43.7	-13.0	30.7	45
10	7340.0	-46.90	6.90	14.25	Vertical	-41.7	-13.0	28.7	0

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 QPSK Bandwidth = 10MHz CH23095, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1475.0	-55.70	2.00	10.75	Vertical	-49.1	-13.0	36.1	180
3	2212.5	-58.09	2.51	11.05	Vertical	-51.7	-13.0	38.7	225
4	2950.0	-51.60	4.20	11.15	Vertical	-46.8	-13.0	33.8	135
5	3687.5	-53.80	5.20	11.15	Vertical	-50.0	-13.0	37.0	135
6	4425.0	-52.90	5.50	11.95	Vertical	-48.6	-13.0	35.6	225
7	5162.5	-50.90	5.70	13.55	Vertical	-45.2	-13.0	32.2	315
8	5900.0	-49.80	6.30	13.75	Vertical	-44.5	-13.0	31.5	270
9	6637.5	-48.80	6.80	13.85	Vertical	-43.9	-13.0	30.9	225
10	7375.0	-47.00	6.90	14.25	Vertical	-41.8	-13.0	28.8	135

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 QPSK Bandwidth = 10MHz CH23130, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1413.0	-54.20	2.00	10.15	Vertical	-48.2	-13.0	35.2	225
3	2223.0	-57.49	2.51	11.05	Vertical	-51.1	-13.0	38.1	90
4	2826.5	-51.60	4.20	11.15	Vertical	-46.8	-13.0	33.8	90
5	3705.0	-54.40	5.20	11.15	Vertical	-50.6	-13.0	37.6	225
6	4446.0	-53.30	5.50	11.95	Vertical	-49.0	-13.0	36.0	315
7	5187.0	-50.40	5.70	13.55	Vertical	-44.7	-13.0	31.7	270
8	5928.0	-50.70	6.30	13.75	Vertical	-45.4	-13.0	32.4	225
9	6669.0	-48.60	6.80	13.85	Vertical	-43.7	-13.0	30.7	135
10	7410.0	-47.00	6.90	14.25	Vertical	-41.8	-13.0	28.8	225

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 QPSK Bandwidth = 5MHz CH23205, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1497.0	-62.10	2.00	10.15	Vertical	-56.1	-13.0	43.1	0
3	2245.5	-58.10	2.50	11.35	Vertical	-51.4	-13.0	38.4	135
4	2994.0	-56.10	4.20	10.85	Vertical	-51.6	-13.0	38.6	225
5	3742.5	-54.40	5.20	11.35	Vertical	-50.4	-13.0	37.4	135
6	4491.0	-52.80	5.50	11.95	Vertical	-48.5	-13.0	35.5	225
7	5239.5	-50.30	5.70	13.55	Vertical	-44.6	-13.0	31.6	90
8	5988.0	-50.70	6.30	13.75	Vertical	-45.4	-13.0	32.4	90
9	6736.5	-48.10	6.80	13.85	Vertical	-43.2	-13.0	30.2	45
10	7485.0	-47.40	6.90	14.25	Vertical	-42.2	-13.0	29.2	180

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 QPSK Bandwidth = 5MHz CH23230, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1502.0	-62.90	2.00	10.75	Vertical	-56.3	-13.0	43.3	315
3	2253.0	-57.29	2.51	11.05	Vertical	-50.9	-13.0	37.9	270
4	3004.0	-56.20	4.20	11.15	Vertical	-51.4	-13.0	38.4	45
5	3755.0	-54.30	5.20	11.15	Vertical	-50.5	-13.0	37.5	0
6	4506.0	-52.70	5.50	11.95	Vertical	-48.4	-13.0	35.4	135
7	5257.0	-53.60	5.70	13.55	Vertical	-47.9	-13.0	34.9	225
8	6008.0	-51.10	6.30	13.75	Vertical	-45.8	-13.0	32.8	315
9	6759.0	-47.60	6.80	13.85	Vertical	-42.7	-13.0	29.7	270
10	7510.0	-47.50	6.90	14.25	Vertical	-42.3	-13.0	29.3	225

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 QPSK Bandwidth = 5MHz CH23255, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1507.0	48.30	2.00	10.15	Vertical	54.3	-13.0	-67.3	225
3	2260.5	-56.89	2.51	11.05	Vertical	-50.5	-13.0	37.5	135
4	3014.0	-56.50	4.20	11.15	Vertical	-51.7	-13.0	38.7	135
5	3767.5	-53.80	5.20	11.15	Vertical	-50.0	-13.0	37.0	225
6	4521.0	-53.20	5.50	11.95	Vertical	-48.9	-13.0	35.9	135
7	5274.5	-53.80	5.70	13.55	Vertical	-48.1	-13.0	35.1	225
8	6028.0	-51.40	6.30	13.75	Vertical	-46.1	-13.0	33.1	315
9	6781.5	-47.80	6.80	13.85	Vertical	-42.9	-13.0	29.9	270
10	7535.0	-47.60	6.90	14.25	Vertical	-42.4	-13.0	29.4	225

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 QPSK Bandwidth = 10MHz CH23230, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1502.0	-62.60	2.00	10.15	Vertical	-56.6	-13.0	43.6	225
3	2253.0	-57.39	2.51	11.35	Vertical	-50.7	-13.0	37.7	90
4	3004.0	-55.80	4.20	10.85	Vertical	-51.3	-13.0	38.3	135
5	3755.0	-54.80	5.20	11.35	Vertical	-50.8	-13.0	37.8	225
6	4506.0	-52.80	5.50	11.95	Vertical	-48.5	-13.0	35.5	90
7	5257.0	-53.80	5.70	13.55	Vertical	-48.1	-13.0	35.1	90
8	6008.0	-51.60	6.30	13.75	Vertical	-46.3	-13.0	33.3	45
9	6759.0	-47.60	6.80	13.85	Vertical	-42.7	-13.0	29.7	180
10	7510.0	-47.80	6.90	14.25	Vertical	-42.6	-13.0	29.6	225

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 QPSK Bandwidth = 10MHz CH23230, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1502.0	-62.90	2.00	10.75	Vertical	-56.3	-13.0	43.3	90
3	2253.0	-57.29	2.51	11.05	Vertical	-50.9	-13.0	37.9	45
4	3004.0	-56.00	4.20	11.15	Vertical	-51.2	-13.0	38.2	135
5	3755.0	-54.10	5.20	11.15	Vertical	-50.3	-13.0	37.3	225
6	4506.0	-53.40	5.50	11.95	Vertical	-49.1	-13.0	36.1	90
7	5257.0	-54.00	5.70	13.55	Vertical	-48.3	-13.0	35.3	90
8	6008.0	-51.50	6.30	13.75	Vertical	-46.2	-13.0	33.2	45
9	6759.0	-47.70	6.80	13.85	Vertical	-42.8	-13.0	29.8	180
10	7510.0	-47.70	6.90	14.25	Vertical	-42.5	-13.0	29.5	45

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 QPSK Bandwidth = 10MHz CH23230, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1502.0	-62.90	2.00	10.15	Vertical	-56.9	-13.0	43.9	180
3	2253.0	-57.49	2.51	11.05	Vertical	-51.1	-13.0	38.1	225
4	3004.0	-56.00	4.20	11.15	Vertical	-51.2	-13.0	38.2	0
5	3755.0	-53.80	5.20	11.15	Vertical	-50.0	-13.0	37.0	135
6	4506.0	-52.90	5.50	11.95	Vertical	-48.6	-13.0	35.6	225
7	5257.0	-53.90	5.70	13.55	Vertical	-48.2	-13.0	35.2	135
8	6008.0	-51.30	6.30	13.75	Vertical	-46.0	-13.0	33.0	225
9	6759.0	-47.00	6.80	13.85	Vertical	-42.1	-13.0	29.1	315
10	7510.0	-47.60	6.90	14.25	Vertical	-42.4	-13.0	29.4	270

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.

## 6 Main Test Equipment

Name of Equipment	Type/ Model	Manufacturer	Serial Number	Last Cal.	Cal. Due Date
Base Station Simulator	CMW500	R&S	113645	2016-05-21	2017-05-20
Power Splitter	SHX-GF2-2-13	Hua Xiang	10120101	NA	NA
Universal Radio Communication Tester	E5515C	Agilent	MY48367192	2016-05-21	2017-05-20
Spectrum Analyzer	N9010A	Agilent	MY47191109	2016-05-21	2017-05-20
Signal Analyzer	FSV30	R&S	100815	2015-12-17	2016-12-16
Signal generator	SMB 100A	R&S	102594	2016-05-22	2017-05-21
Signal generator	SMR27	R&S	100365	2016-05-22	2017-05-21
EMI Test Receiver	ESCI	R&S	100948	2016-06-01	2017-05-31
Trilog Antenna	VUBL 9163	SCHWARZBECK	9163-201	2014-12-06	2017-12-05
Trilog Antenna	VUBL 9163	SCHWARZBECK	9163-391	2014-12-06	2017-12-05
Horn Antenna	HF907	R&S	100126	2014-12-06	2017-12-05
Horn Antenna	HF907	R&S	100125	2014-12-06	2017-12-05
Horn Antenna	3160-09	ETS-Lindgren	00102643	2015-01-30	2018-01-29
Horn Antenna	3160-09	ETS-Lindgren	00102644	2014-12-06	2017-12-05
Climatic Chamber	PT-30B	Re Ce	20101891	2016-07-17	2017-07-16
RF Cable	SMA 15cm	Agilent	0001	2016-12-04	2017-03-03

## ANNEX A: EUT Appearance and Test Setup

### A.1 EUT Appearance

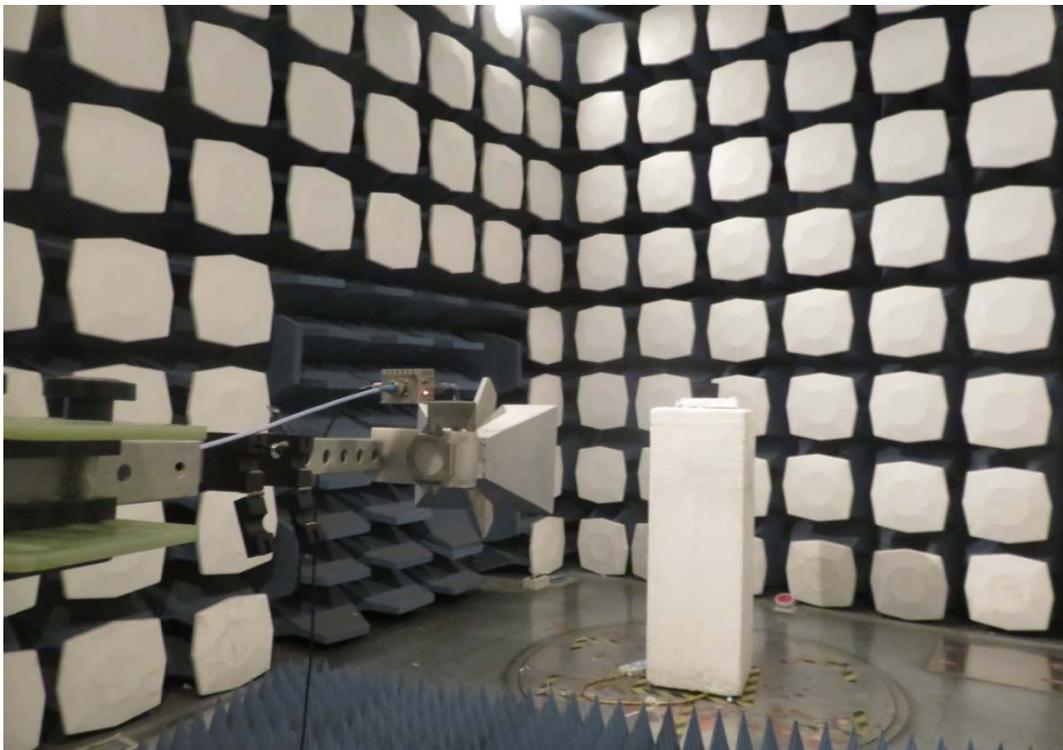
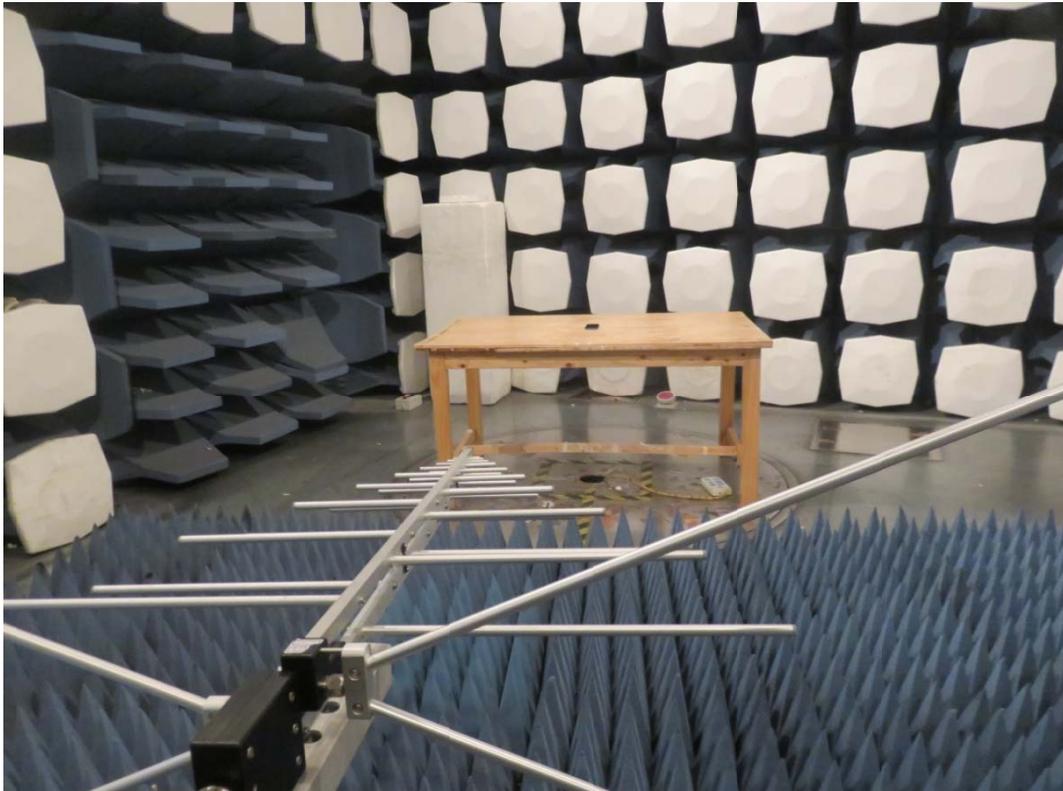


Front Side



Back Side  
Picture 1 EUT

## A.2 Test Setup



Picture 2: Radiated Spurious Emissions Test setup