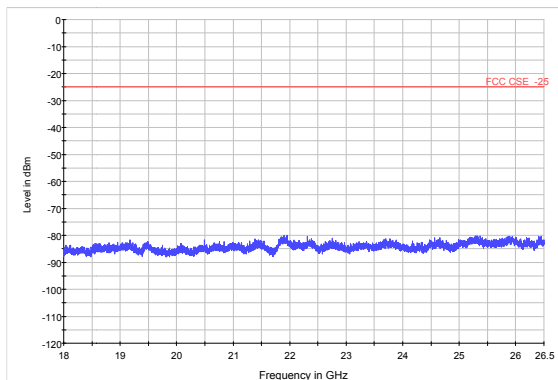
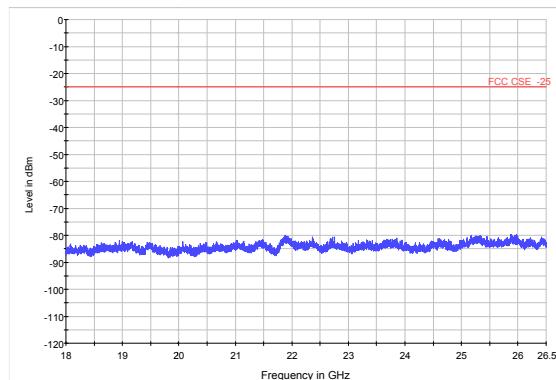




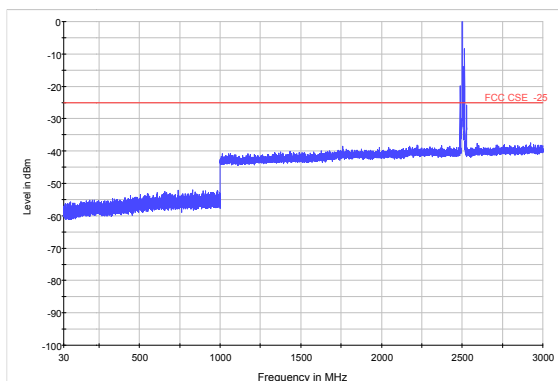
LTE Band 7 10MHz CH-Middle 18GHz~26.5GHz



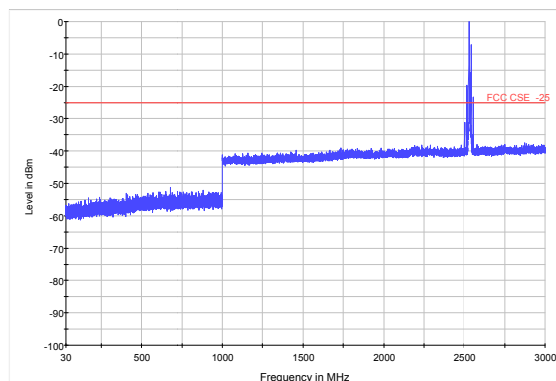
LTE Band 7 10MHz CH-High 18GHz~26.5GHz



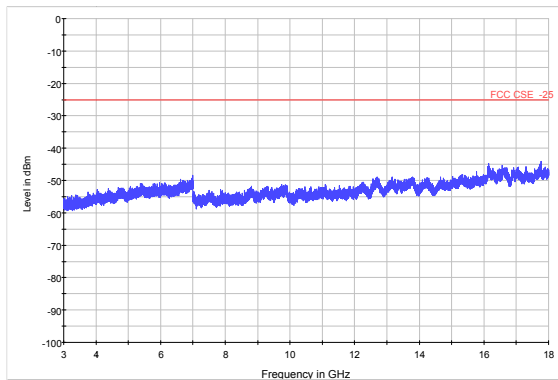
LTE Band 7 15MHz CH-Low 30MHz~3GHz



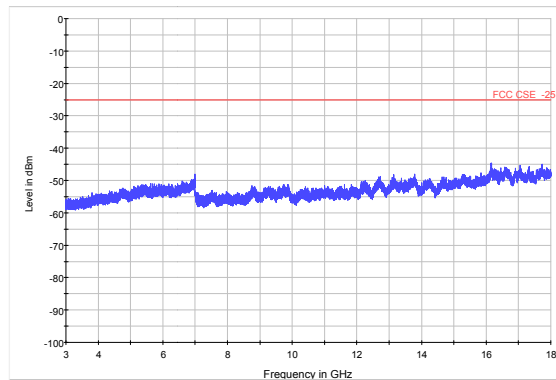
LTE Band 7 15MHz CH-Middle 30MHz~3GHz



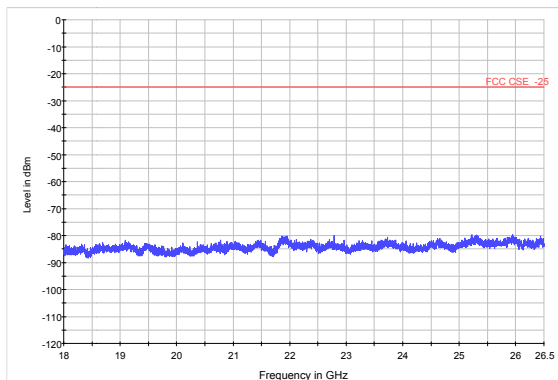
LTE Band 7 15MHz CH-Low 3GHz~18GHz



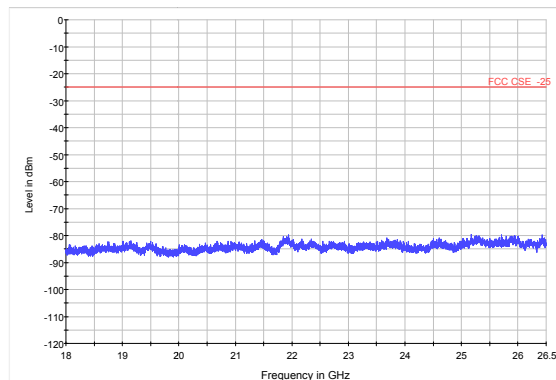
LTE Band 7 15MHz CH-Middle 3GHz~18GHz



LTE Band 7 15MHz CH-Low 18GHz~26.5GHz

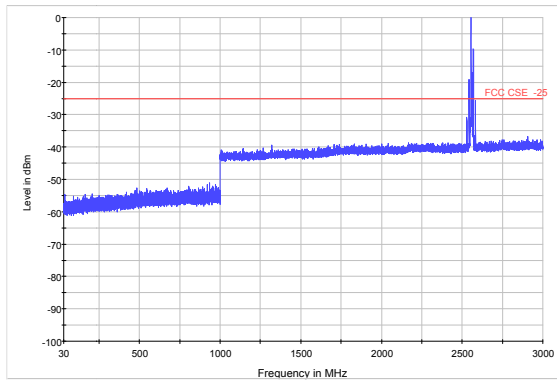


LTE Band 7 15MHz CH-Middle 18GHz~26.5GHz

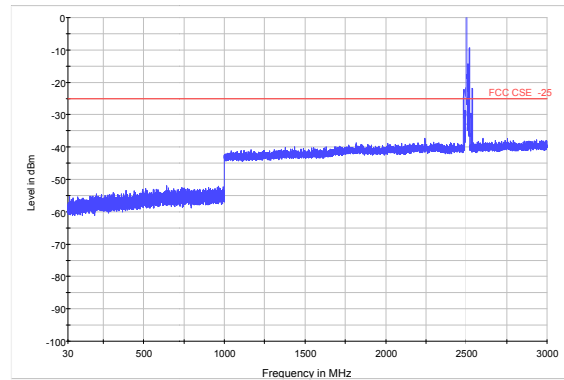




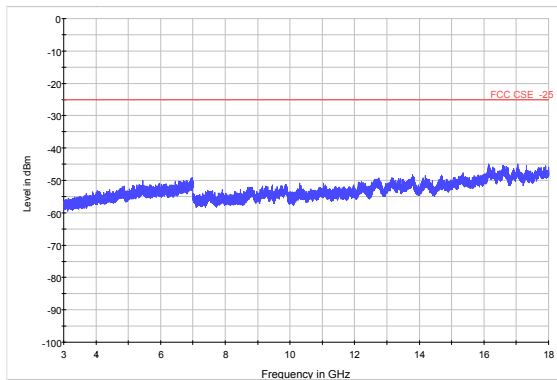
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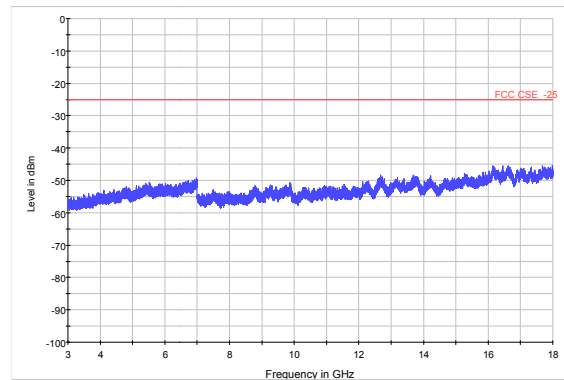
LTE Band 7 20MHz CH-Low 30MHz~3GHz



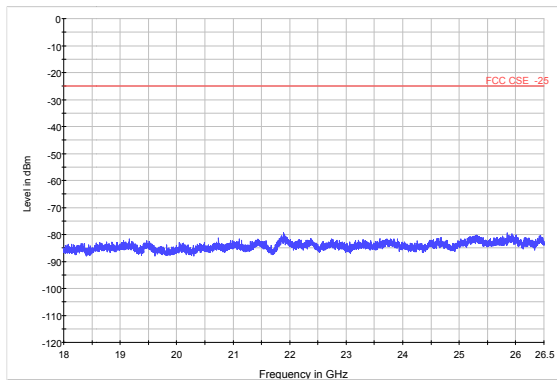
LTE Band 7 15MHz CH-High 3GHz~18GHz



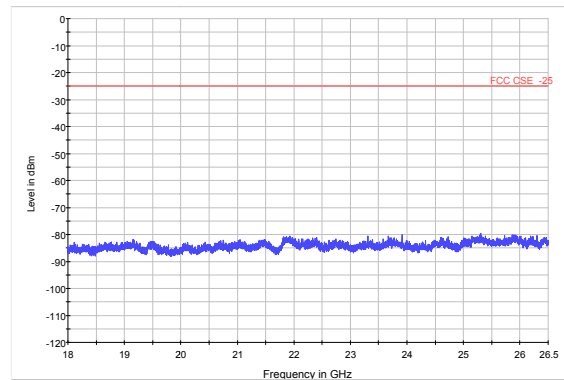
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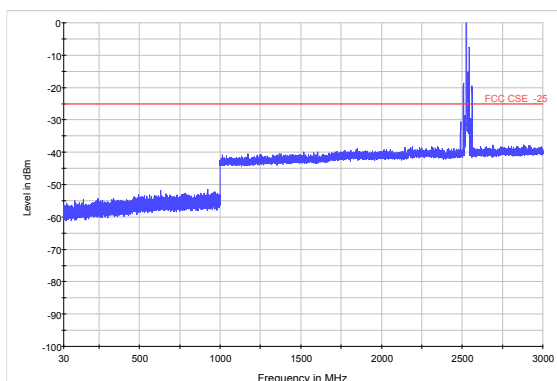
LTE Band 7 15MHz CH-High 18GHz~26.5GHz



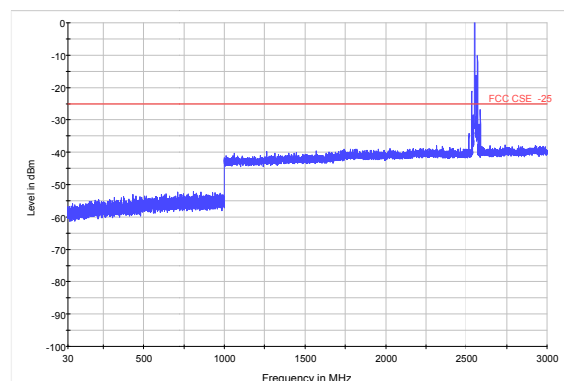
LTE Band 7 20MHz CH-Low 18GHz~26.5GHz



LTE Band 7 20MHz CH-Middle 30MHz~3GHz

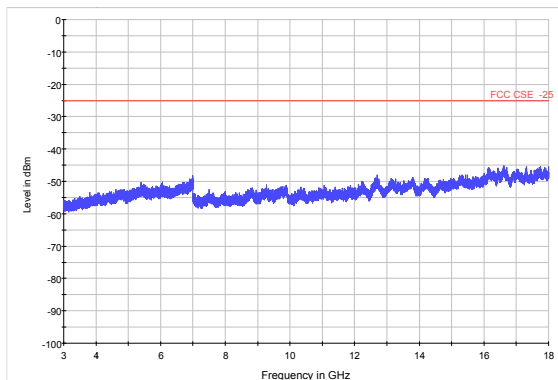


LTE Band 7 20MHz CH-High 30MHz~3GHz

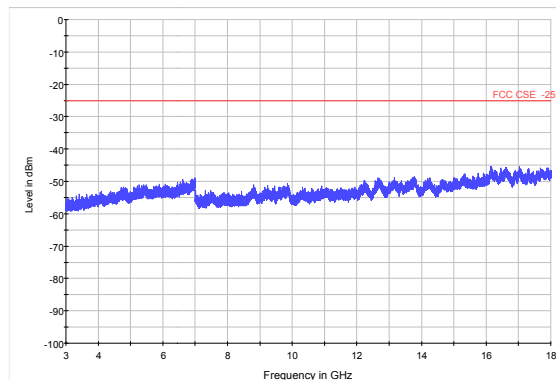




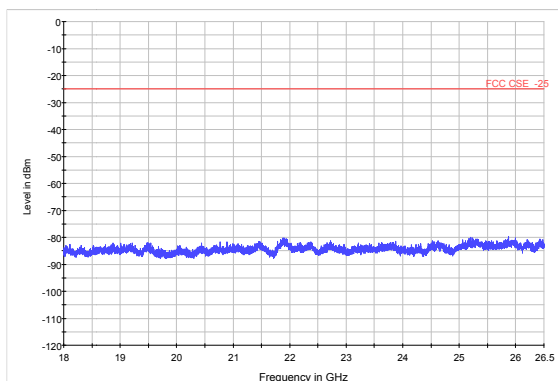
LTE Band 7 20MHz CH-Middle 3GHz~18GHz



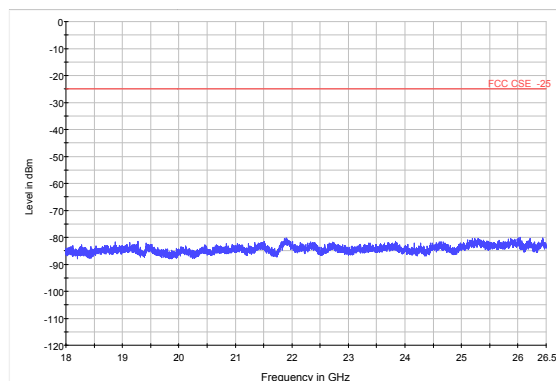
LTE Band 7 20MHz CH-High 3GHz~18GHz



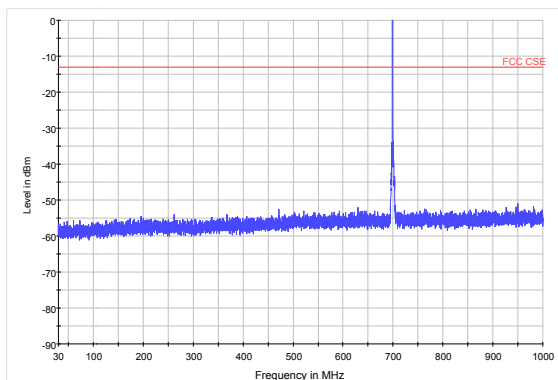
LTE Band 7 20MHz CH-Middle 18GHz~26.5GHz



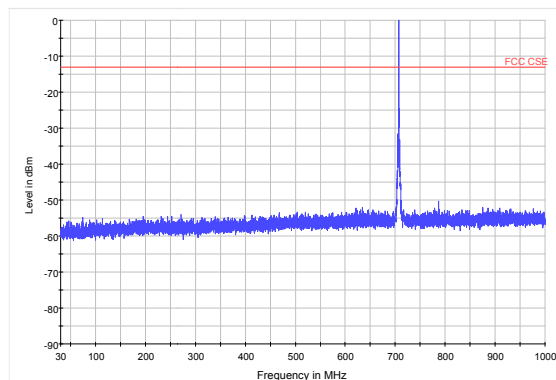
LTE Band 7 20MHz CH-High 18GHz~26.5GHz



LTE Band 12 1.4MHz CH-Low 30MHz~1GHz

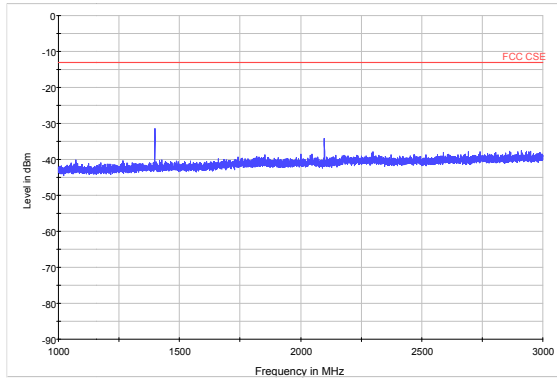


LTE Band 12 1.4MHz CH-Middle 30MHz~1GHz

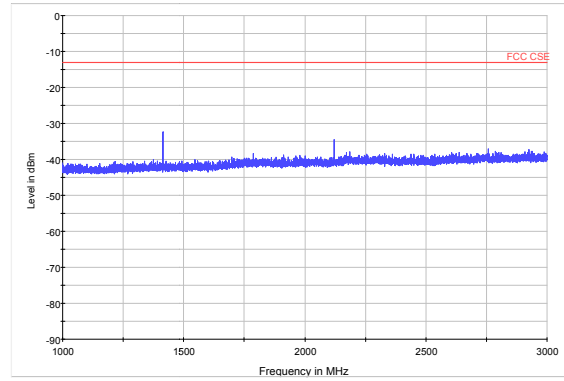




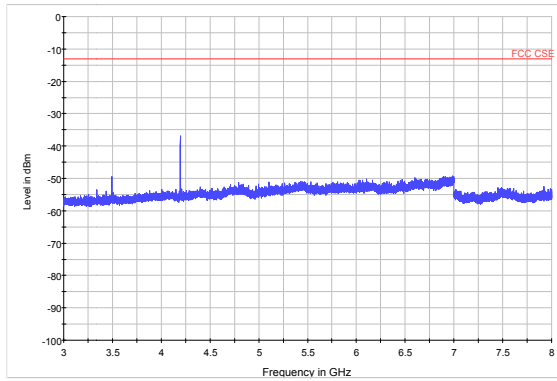
LTE Band 12 1.4MHz CH-Low 1GHz~3GHz



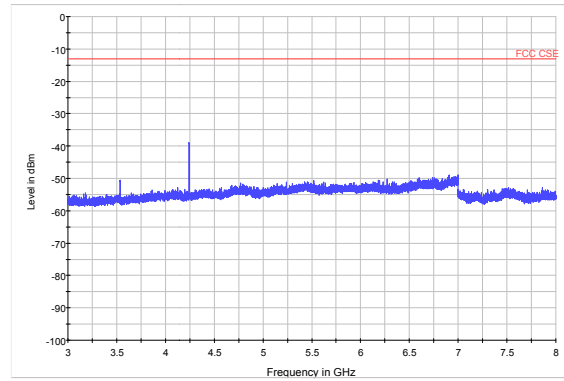
LTE Band 12 1.4MHz CH-Middle 1GHz~3GHz



LTE Band 12 1.4MHz CH-Low 3GHz~8GHz

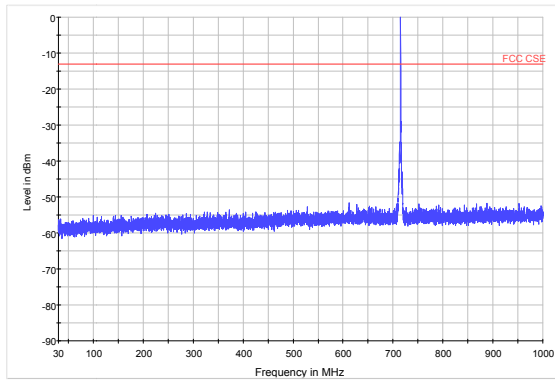


LTE Band 12 1.4MHz CH-Middle 3GHz~8GHz

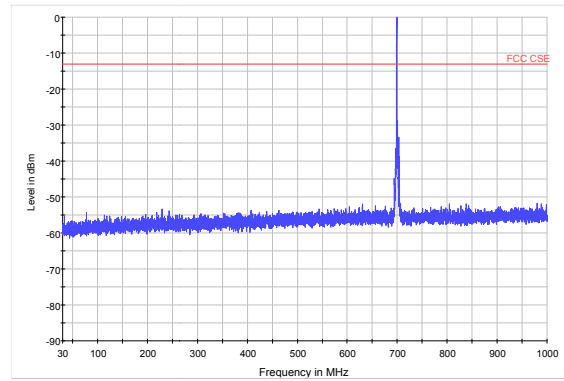




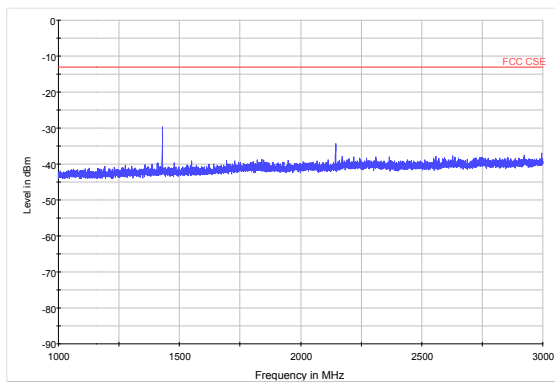
LTE Band 12 1.4MHz CH-High 30MHz~1GHz



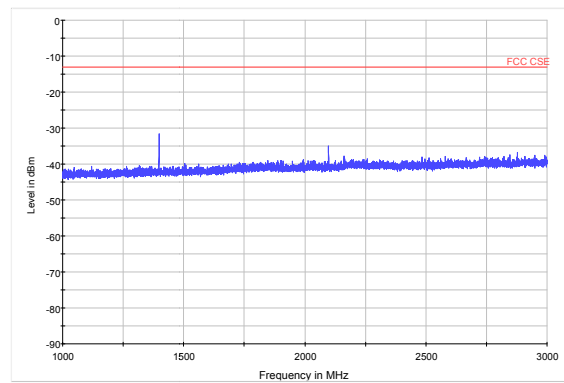
LTE Band 12 3MHz CH-Low 30MHz~1GHz



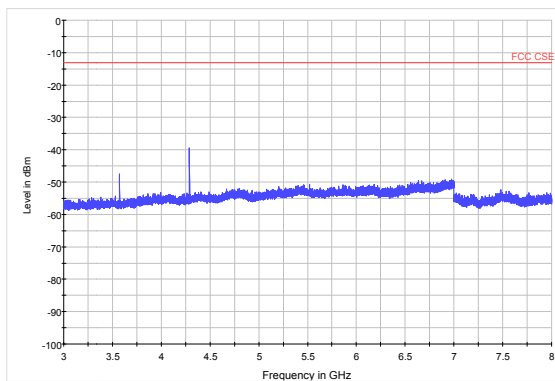
LTE Band 12 1.4MHz CH-High 1GHz~3GHz



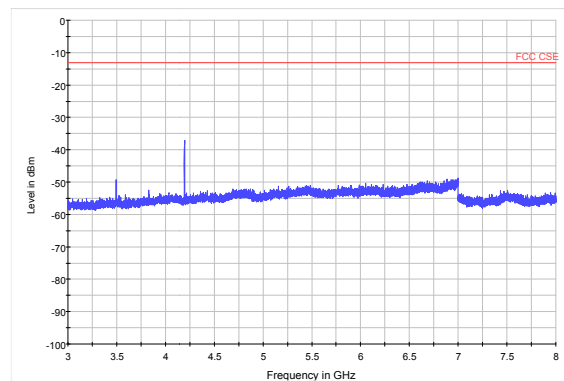
LTE Band 12 3MHz CH-Low 1GHz~3GHz



LTE Band 12 1.4MHz CH-High 3GHz~8GHz

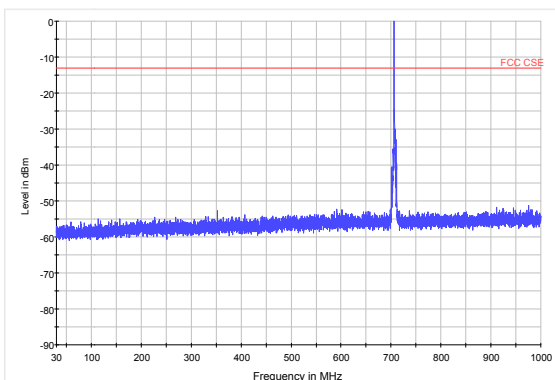


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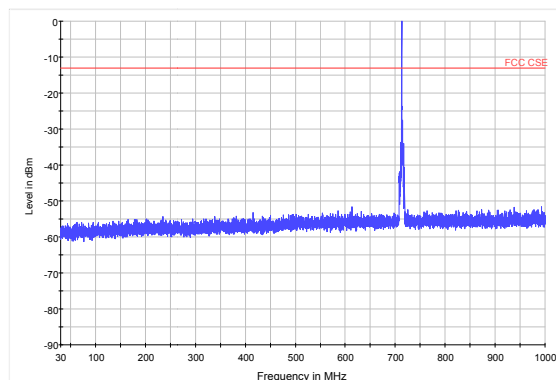




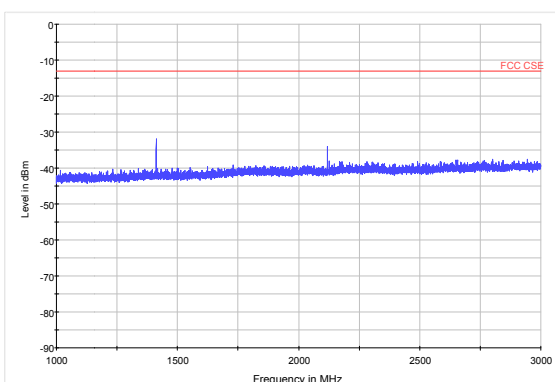
LTE Band 12 3MHz CH-Middle 30MHz~1GHz



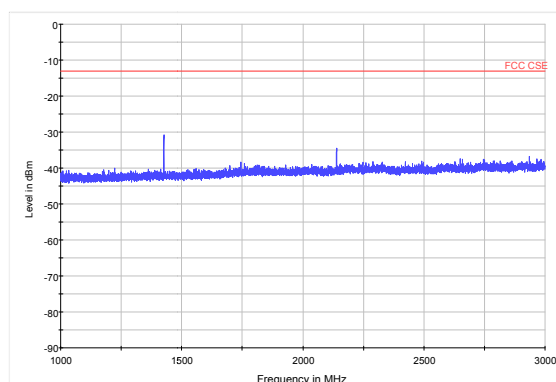
LTE Band 12 3MHz CH-High 30MHz~1GHz



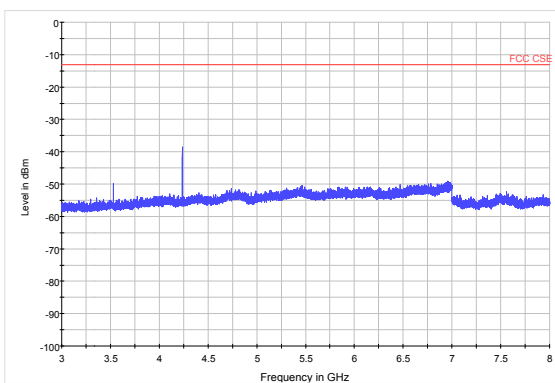
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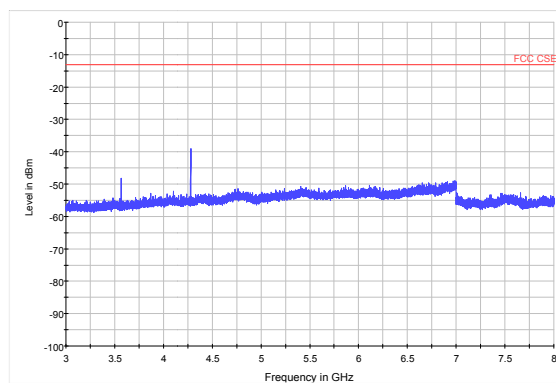
LTE Band 12 3MHz CH-High 1GHz~3GHz



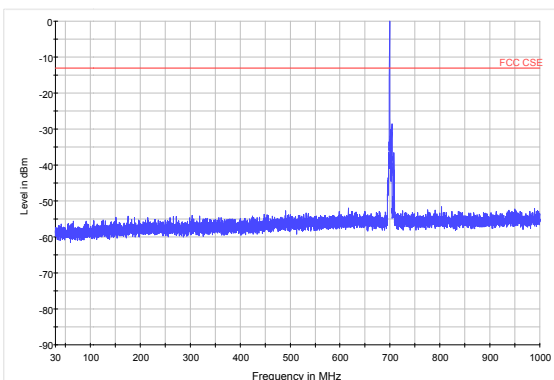
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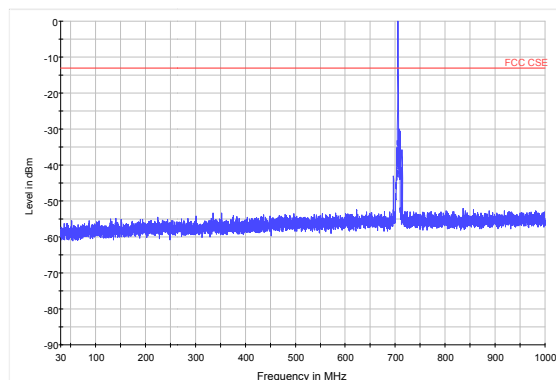
LTE Band 12 3MHz CH-High 3GHz~8GHz



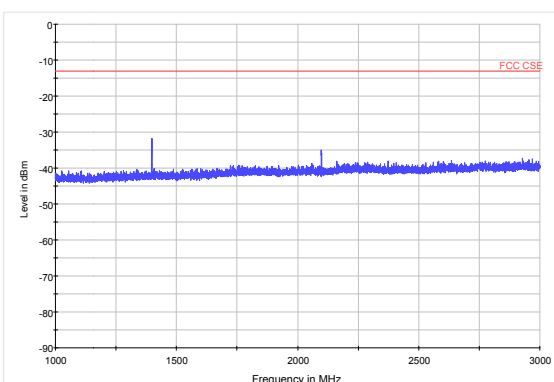
LTE Band 12 5MHz CH-Low 30MHz~1GHz



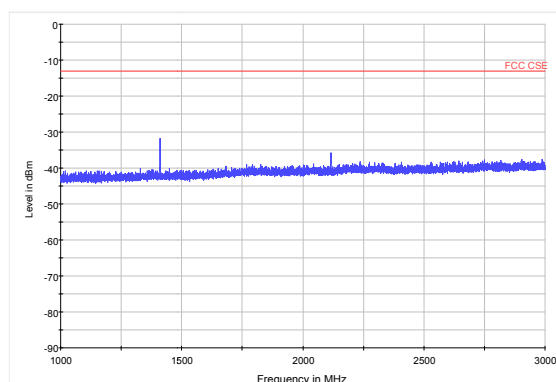
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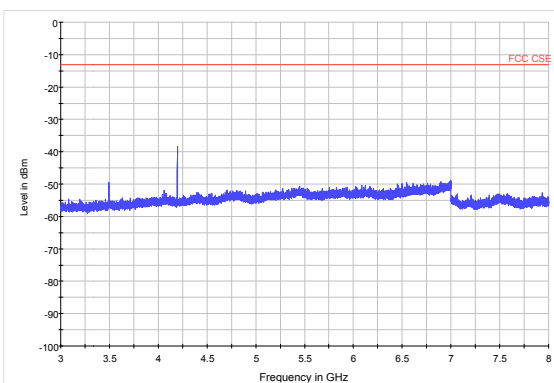
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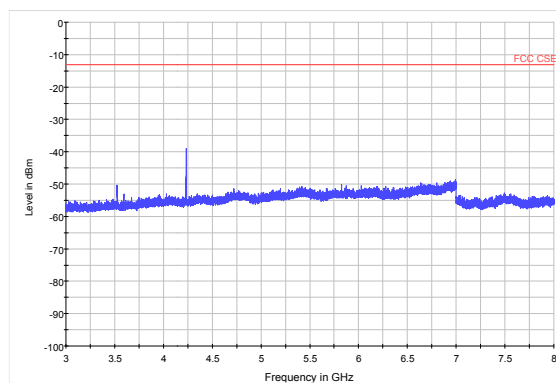
LTE Band 12 5MHz CH-Middle 1GHz~3GHz



LTE Band 12 5MHz CH-Low 3GHz~8GHz

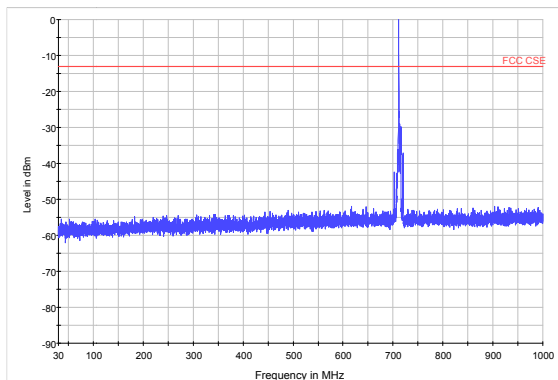


LTE Band 12 5MHz CH-Middle 3GHz~8GHz

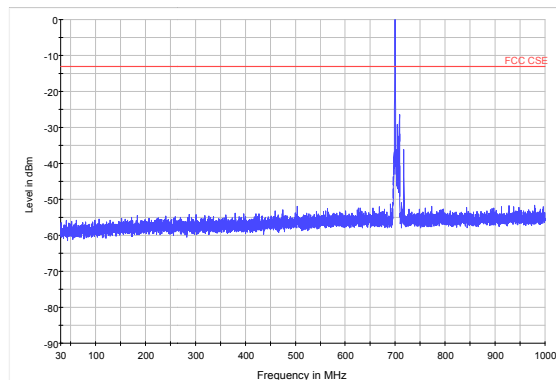




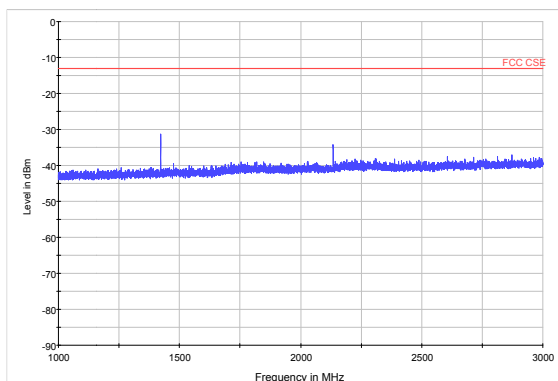
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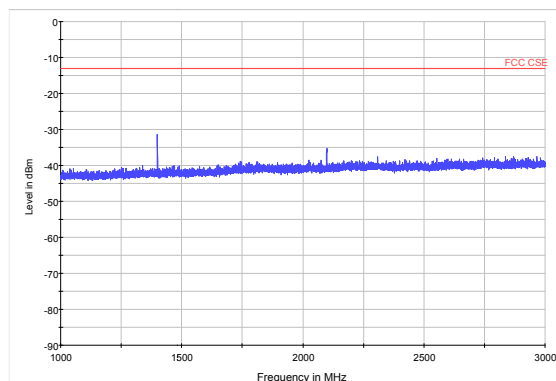
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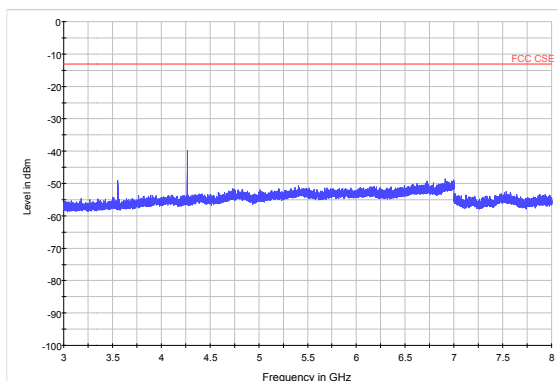
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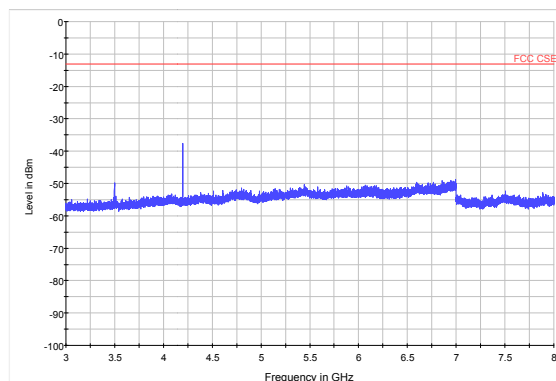
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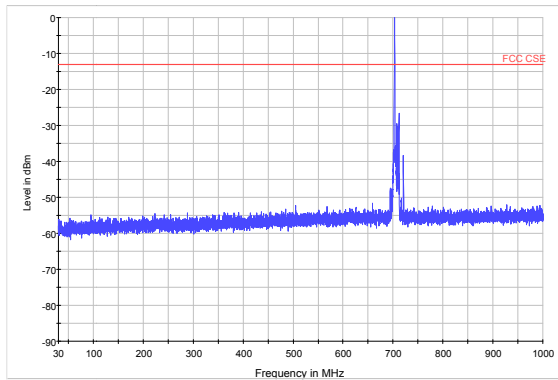


LTE Band 12 10MHz CH-Low 3GHz~8GHz

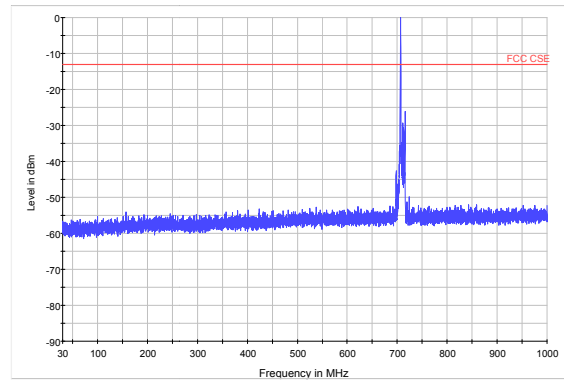




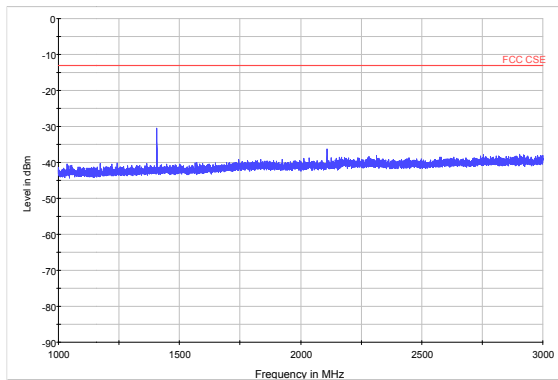
LTE Band 12 10MHz CH-Middle 30MHz~1GHz



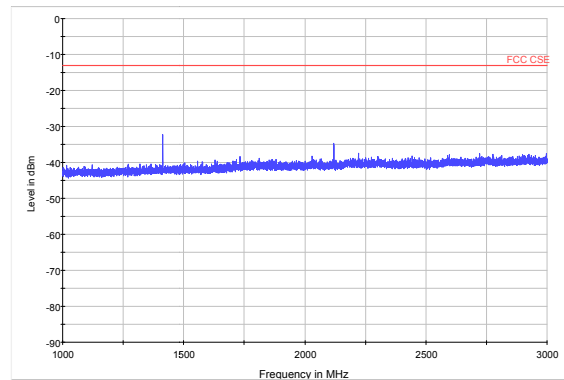
LTE Band 12 10MHz CH-High 30MHz~1GHz



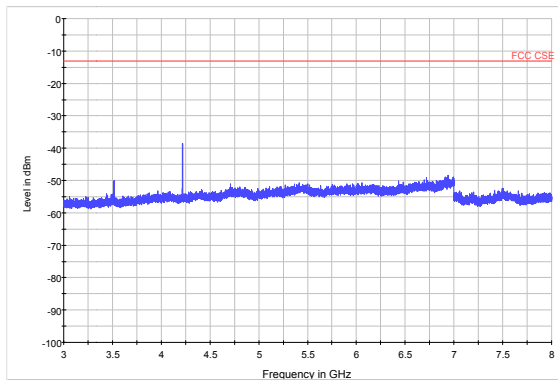
LTE Band 12 10MHz CH-Middle 1GHz~3GHz



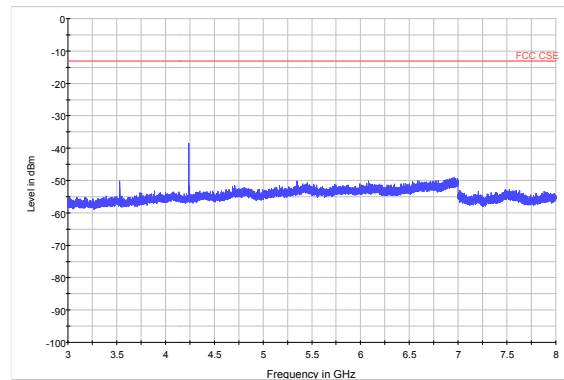
LTE Band 12 10MHz CH-High 1GHz~3GHz



LTE Band 12 10MHz CH-Middle 3GHz~8GHz

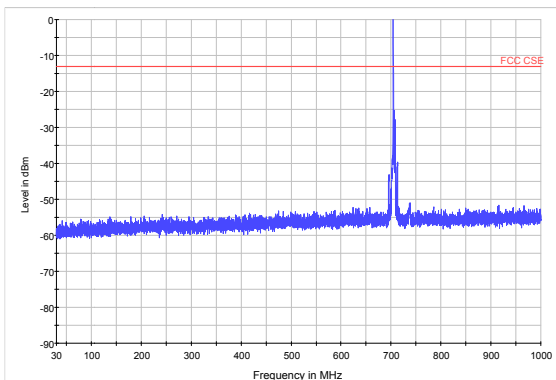


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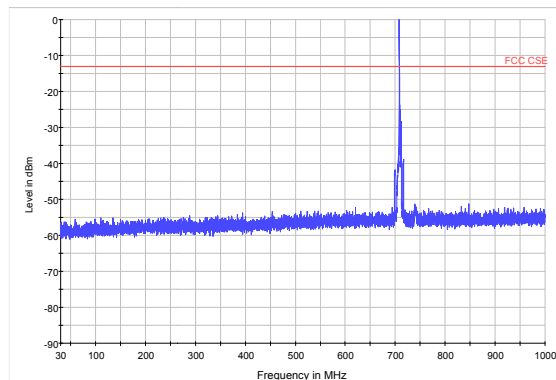




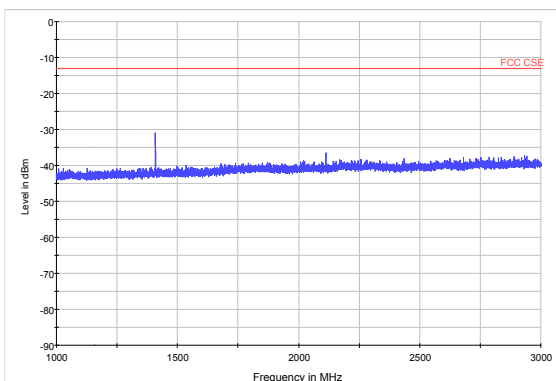
LTE Band 17 5MHz CH-Low 30MHz~1GHz



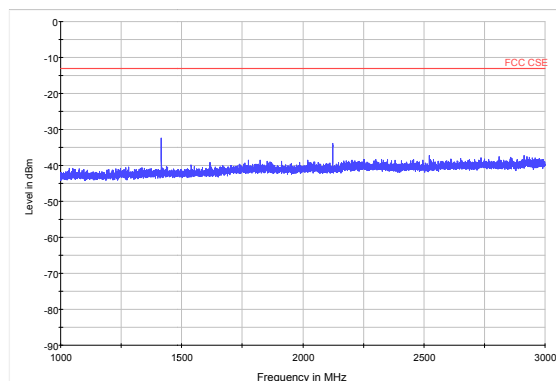
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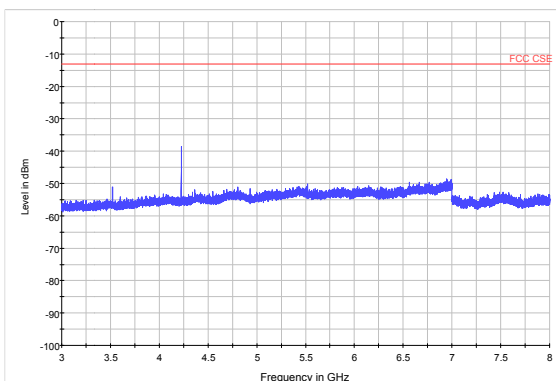
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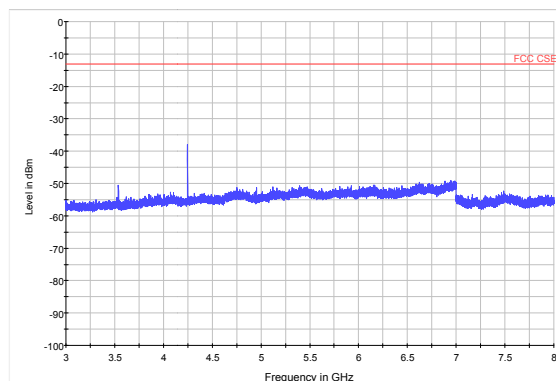
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LTE Band 17 5MHz CH-Low 3GHz~8GHz

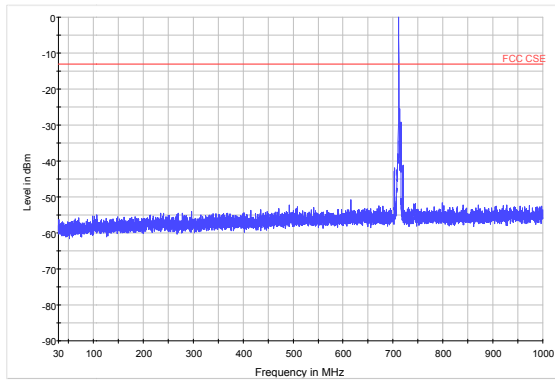


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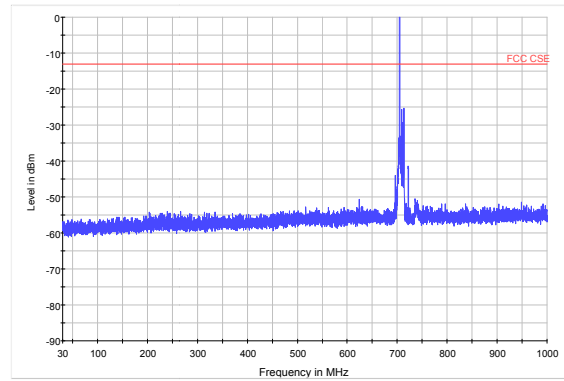




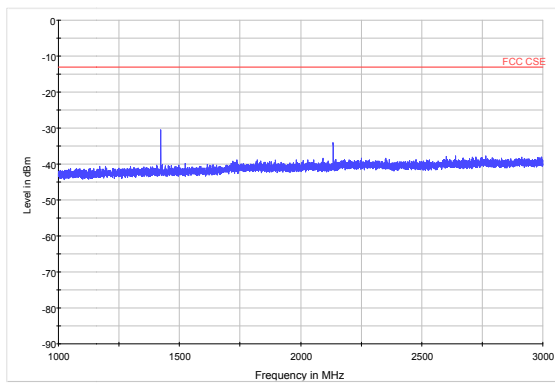
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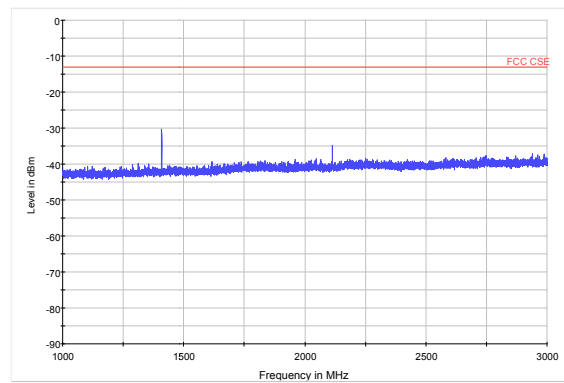
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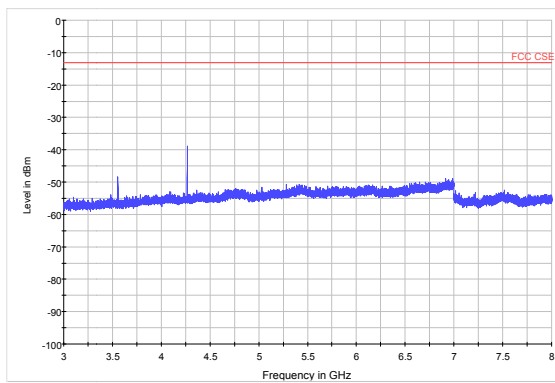
LTE Band 17 5MHz CH-High 1GHz~3GHz



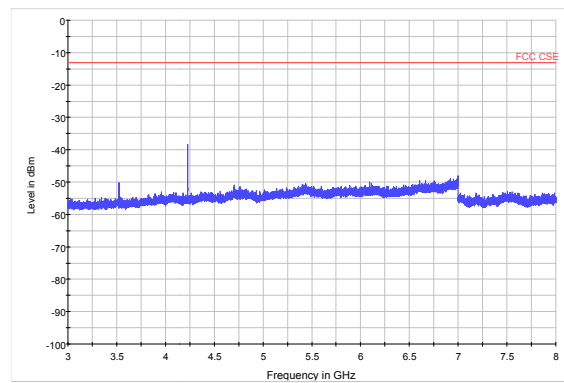
LTE Band 17 10MHz CH- Low 1GHz~3GHz



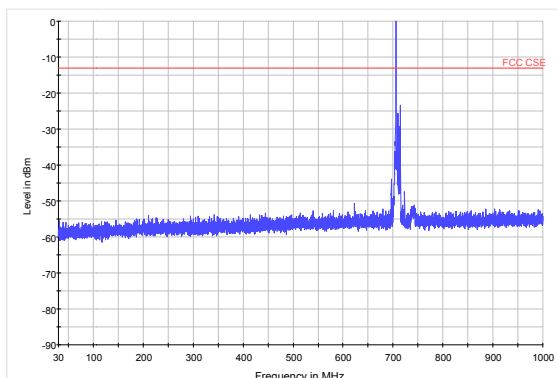
LTE Band 17 5MHz CH-High 3GHz~8GHz



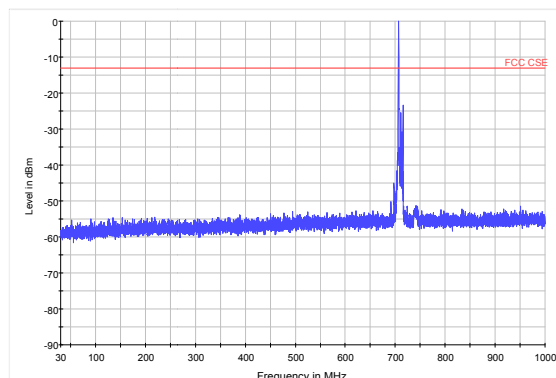
LTE Band 17 10MHz CH- Low 3GHz~8GHz



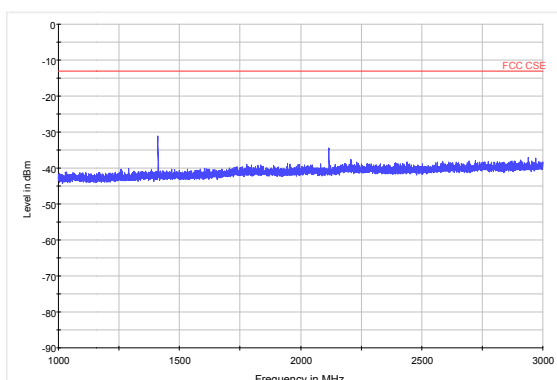
LTE Band 13 10MHz CH-Middle 30MHz~1.5GHz



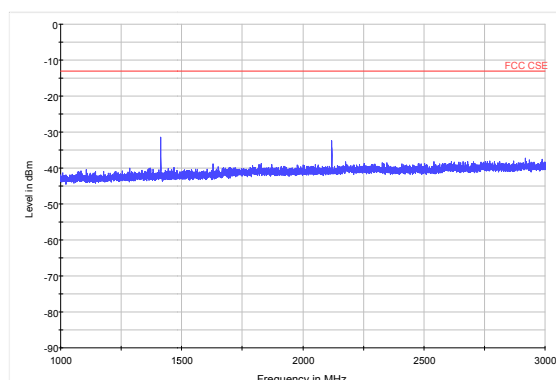
LTE Band 13 10MHz CH-High 30MHz~1.5GHz



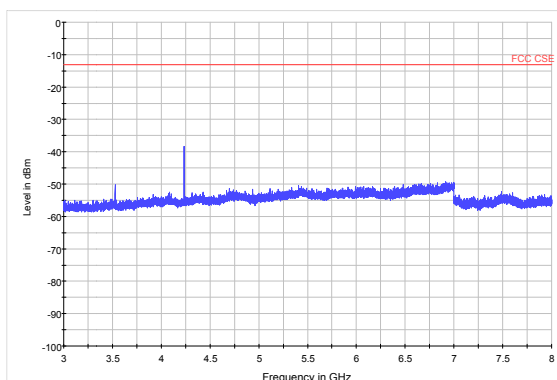
LTE Band 13 10MHz CH-Middle 1GHz~3GHz



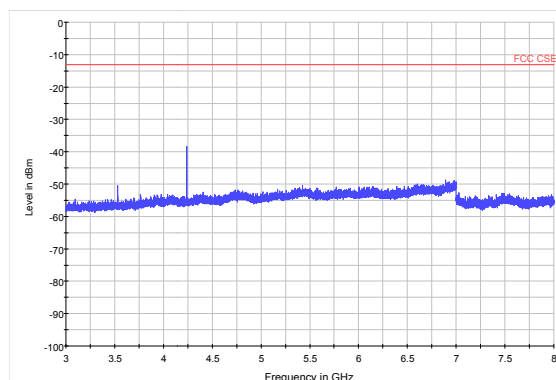
LTE Band 13 10MHz CH- High 1GHz~3GHz



LTE Band 13 10MHz CH-Middle 3GHz~8GHz



LTE Band 13 10MHz CH- High 3GHz~8GHz



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.
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, 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:

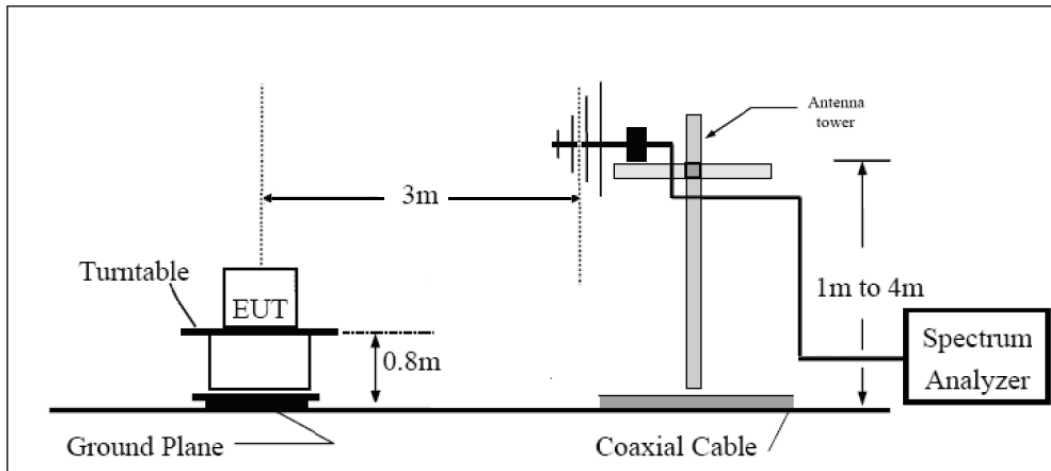
$$\text{Power(EIRP)} = \text{PMea} - \text{PAG} - \text{Pcl} + \text{Ga}$$

The measurement results are amend as described below:

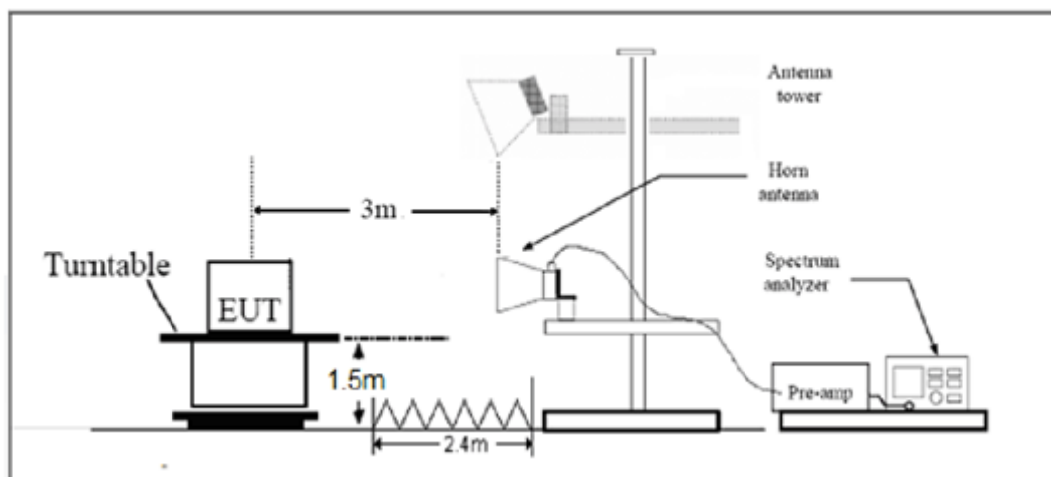
$$\text{Power(EIRP)} = \text{PMea} - \text{Pcl} + \text{Ga}$$
8. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power. ERP can be calculated from EIRP by subtracting the gain of the dipole, $\text{ERP} = \text{EIRP} - 2.15\text{dBi}$.

Test setup

30MHz~~~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

Limits

Rule Part 27.53(h) specifies that “for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB..”

Rule Part 27.53 (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands

immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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.

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.

Rule Part 27.53(h)/ Part 27.53 (g) Limit		-13 dBm
Part 27.53(f) Limit	Limit out of the band 1559-1610 MHz	-13 dBm
	Limit in the band 1559-1610 MHz	-40 dBm
Part 27.53(m) Limit		-25 dBm

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

WCDMA Band IV CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3424.8	-60.45	2.6	10.15	Horizontal	-52.9	-13.0	39.9	180
3	5137.2	-51.55	2.4	11.35	Horizontal	-42.6	-13.0	29.6	270
4	6849.6	-55.65	4.5	10.85	Horizontal	-49.3	-13.0	36.3	135
5	8562.0	-51.85	5.1	11.35	Horizontal	-45.6	-13.0	32.6	45
6	10274.4	-48.95	5.3	11.95	Horizontal	-42.3	-13.0	29.3	270
7	11986.8	-50.35	5.5	13.55	Horizontal	-42.3	-13.0	29.3	180
8	13699.2	-48.05	6.3	13.75	Horizontal	-40.6	-13.0	27.6	270
9	15411.6	-49.25	6.7	13.85	Horizontal	-42.1	-13.0	29.1	135
10	17124.0	-46.75	6.8	14.25	Horizontal	-39.3	-13.0	26.3	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 Horizontal position.

WCDMA Band IV CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.2	-59.85	2.6	10.75	Horizontal	-51.7	-13.0	38.7	180
3	5197.8	-49.75	2.4	11.05	Horizontal	-41.1	-13.0	28.1	270
4	6930.4	-54.95	4.5	11.15	Horizontal	-48.3	-13.0	35.3	135
5	8663.0	-53.45	5.1	11.35	Horizontal	-47.2	-13.0	34.2	45
6	10395.6	-50.05	5.3	11.95	Horizontal	-43.4	-13.0	30.4	180
7	12128.2	-49.35	5.5	13.55	Horizontal	-41.3	-13.0	28.3	270
8	13860.8	-47.55	6.3	13.75	Horizontal	-40.1	-13.0	27.1	135
9	15593.4	-48.65	6.7	13.85	Horizontal	-41.5	-13.0	28.5	45
10	17326.0	-46.95	6.8	14.25	Horizontal	-39.5	-13.0	26.5	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 Horizontal position.

WCDMA Band IV CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3505.2	-63.25	2.6	10.15	Horizontal	-55.7	-13.0	42.7	180
3	5254.1	-50.05	2.4	11.05	Horizontal	-41.4	-13.0	28.4	270
4	7010.4	-54.95	4.5	11.15	Horizontal	-48.3	-13.0	35.3	135
5	8763.0	-52.95	5.1	11.35	Horizontal	-46.7	-13.0	33.7	45
6	10515.6	-49.15	5.3	11.95	Horizontal	-42.5	-13.0	29.5	180
7	12268.2	-50.35	5.5	13.55	Horizontal	-42.3	-13.0	29.3	270
8	14020.8	-47.05	6.3	13.75	Horizontal	-39.6	-13.0	26.6	135
9	15773.4	-49.95	6.7	13.85	Horizontal	-42.8	-13.0	29.8	45
10	17526.0	-47.35	6.8	14.25	Horizontal	-39.9	-13.0	26.9	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 Horizontal position.

LTE Band 4 QPSK 1.4MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3421.4	-65.35	2.6	10.15	Horizontal	-57.8	-13.0	44.8	270
3	5132.1	-56.05	2.4	11.35	Horizontal	-47.1	-13.0	34.1	180
4	6842.8	-55.95	4.5	10.85	Horizontal	-49.6	-13.0	36.6	135
5	8553.5	-52.25	5.1	11.35	Horizontal	-46.0	-13.0	33.0	270
6	10264.2	-49.25	5.3	11.95	Horizontal	-42.6	-13.0	29.6	180
7	11974.9	-51.55	5.5	13.55	Horizontal	-43.5	-13.0	30.5	225
8	13685.6	-47.55	6.3	13.75	Horizontal	-40.1	-13.0	27.1	45
9	15396.3	-50.05	6.7	13.85	Horizontal	-42.9	-13.0	29.9	270
10	17107.0	-45.65	6.8	14.25	Horizontal	-38.2	-13.0	25.2	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 Horizontal position.

LTE Band 4 QPSK 1.4MHz CH-Middle, 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	-64.55	2.6	10.75	Horizontal	-56.4	-13.0	43.4	135
3	5197.5	-56.55	2.4	11.05	Horizontal	-47.9	-13.0	34.9	270
4	6930.0	-55.25	4.5	11.15	Horizontal	-48.6	-13.0	35.6	180
5	8662.5	-51.75	5.1	11.35	Horizontal	-45.5	-13.0	32.5	225
6	10395.0	-48.55	5.3	11.95	Horizontal	-41.9	-13.0	28.9	270
7	12127.5	-50.85	5.5	13.55	Horizontal	-42.8	-13.0	29.8	180
8	13860.0	-46.85	6.3	13.75	Horizontal	-39.4	-13.0	26.4	135
9	15592.5	-49.85	6.7	13.85	Horizontal	-42.7	-13.0	29.7	270
10	17325.0	-45.65	6.8	14.25	Horizontal	-38.2	-13.0	25.2	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 Horizontal position.

LTE Band 4 QPSK 1.4MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3508.6	-63.85	2.6	10.15	Horizontal	-56.3	-13.0	43.3	225
3	5262.9	-55.85	2.4	11.05	Horizontal	-47.2	-13.0	34.2	45
4	7017.2	-54.75	4.5	11.15	Horizontal	-48.1	-13.0	35.1	270
5	8771.5	-52.55	5.1	11.35	Horizontal	-46.3	-13.0	33.3	180
6	10525.8	-49.75	5.3	11.95	Horizontal	-43.1	-13.0	30.1	135
7	12280.1	-50.55	5.5	13.55	Horizontal	-42.5	-13.0	29.5	270
8	14034.4	-46.85	6.3	13.75	Horizontal	-39.4	-13.0	26.4	180
9	15788.7	-48.65	6.7	13.85	Horizontal	-41.5	-13.0	28.5	225
10	17543.0	-46.15	6.8	14.25	Horizontal	-38.7	-13.0	25.7	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 Horizontal position.

LTE Band 4 QPSK 3MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3423.0	-63.95	2.6	10.15	Horizontal	-56.4	-13.0	43.4	90
3	5134.5	-55.25	2.4	11.35	Horizontal	-46.3	-13.0	33.3	270
4	6846.0	-55.65	4.5	10.85	Horizontal	-49.3	-13.0	36.3	180
5	8557.5	-52.65	5.1	11.35	Horizontal	-46.4	-13.0	33.4	135
6	10269.0	-49.35	5.3	11.95	Horizontal	-42.7	-13.0	29.7	270
7	11980.5	-50.55	5.5	13.55	Horizontal	-42.5	-13.0	29.5	180
8	13692.0	-47.05	6.3	13.75	Horizontal	-39.6	-13.0	26.6	225
9	15403.5	-50.05	6.7	13.85	Horizontal	-42.9	-13.0	29.9	45
10	17115.0	-47.35	6.8	14.25	Horizontal	-39.9	-13.0	26.9	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 Horizontal position.

LTE Band 4 QPSK 3MHz CH-Middle, 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	-65.15	2.6	10.75	Horizontal	-57.0	-13.0	44.0	180
3	5197.5	-55.05	2.4	11.05	Horizontal	-46.4	-13.0	33.4	270
4	6930.0	-55.35	4.5	11.15	Horizontal	-48.7	-13.0	35.7	45
5	8662.5	-51.45	5.1	11.35	Horizontal	-45.2	-13.0	32.2	90
6	10395.0	-49.55	5.3	11.95	Horizontal	-42.9	-13.0	29.9	135
7	12127.5	-50.85	5.5	13.55	Horizontal	-42.8	-13.0	29.8	225
8	13860.0	-46.55	6.3	13.75	Horizontal	-39.1	-13.0	26.1	180
9	15592.5	-48.85	6.7	13.85	Horizontal	-41.7	-13.0	28.7	270
10	17325.0	-47.05	6.8	14.25	Horizontal	-39.6	-13.0	26.6	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 Horizontal position.

LTE Band 4 QPSK 3MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3507.0	-63.45	2.6	10.15	Horizontal	-55.9	-13.0	42.9	270
3	5260.5	-57.25	2.4	11.05	Horizontal	-48.6	-13.0	35.6	180
4	7014.0	-55.25	4.5	11.15	Horizontal	-48.6	-13.0	35.6	225
5	8767.5	-53.05	5.1	11.35	Horizontal	-46.8	-13.0	33.8	45
6	10521.0	-50.05	5.3	11.95	Horizontal	-43.4	-13.0	30.4	90
7	12274.5	-50.55	5.5	13.55	Horizontal	-42.5	-13.0	29.5	180
8	14028.0	-47.85	6.3	13.75	Horizontal	-40.4	-13.0	27.4	270
9	15781.5	-47.65	6.7	13.85	Horizontal	-40.5	-13.0	27.5	135
10	17535.0	-45.75	6.8	14.25	Horizontal	-38.3	-13.0	25.3	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 Horizontal position.

LTE Band 4 QPSK 5MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3425.0	-64.15	2.6	10.15	Horizontal	-56.6	-13.0	43.6	225
3	5137.5	-56.25	2.4	11.35	Horizontal	-47.3	-13.0	34.3	45
4	6850.0	-55.65	4.5	10.85	Horizontal	-49.3	-13.0	36.3	90
5	8562.5	-52.65	5.1	11.35	Horizontal	-46.4	-13.0	33.4	180
6	10275.0	-49.15	5.3	11.95	Horizontal	-42.5	-13.0	29.5	270
7	11987.5	-51.55	5.5	13.55	Horizontal	-43.5	-13.0	30.5	180
8	13700.0	-47.05	6.3	13.75	Horizontal	-39.6	-13.0	26.6	225
9	15412.5	-49.45	6.7	13.85	Horizontal	-42.3	-13.0	29.3	45
10	17125.0	-47.85	6.8	14.25	Horizontal	-40.4	-13.0	27.4	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 Horizontal position.

LTE Band 4 QPSK 5MHz CH-Middle, 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	-63.85	2.6	10.75	Horizontal	-55.7	-13.0	42.7	180
3	5197.5	-55.05	2.4	11.05	Horizontal	-46.4	-13.0	33.4	135
4	6930.0	-55.35	4.5	11.15	Horizontal	-48.7	-13.0	35.7	270
5	8662.5	-51.85	5.1	11.35	Horizontal	-45.6	-13.0	32.6	180
6	10395.0	-48.55	5.3	11.95	Horizontal	-41.9	-13.0	28.9	225
7	12127.5	-50.35	5.5	13.55	Horizontal	-42.3	-13.0	29.3	45
8	13860.0	-48.05	6.3	13.75	Horizontal	-40.6	-13.0	27.6	90
9	15592.5	-49.25	6.7	13.85	Horizontal	-42.1	-13.0	29.1	270
10	17325.0	-47.05	6.8	14.25	Horizontal	-39.6	-13.0	26.6	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 Horizontal position.

LTE Band 4 QPSK 5MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3505.0	-63.55	2.6	10.15	Horizontal	-56.0	-13.0	43.0	225
3	5257.5	-55.65	2.4	11.05	Horizontal	-47.0	-13.0	34.0	45
4	7010.0	-55.55	4.5	11.15	Horizontal	-48.9	-13.0	35.9	135
5	8762.5	-53.45	5.1	11.35	Horizontal	-47.2	-13.0	34.2	180
6	10515.0	-50.05	5.3	11.95	Horizontal	-43.4	-13.0	30.4	225
7	12267.5	-50.35	5.5	13.55	Horizontal	-42.3	-13.0	29.3	45
8	14020.0	-47.85	6.3	13.75	Horizontal	-40.4	-13.0	27.4	90
9	15772.5	-47.65	6.7	13.85	Horizontal	-40.5	-13.0	27.5	270
10	17525.0	-46.25	6.8	14.25	Horizontal	-38.8	-13.0	25.8	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 Horizontal position.

LTE Band 4 QPSK 10MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3430.0	-64.85	2.6	10.15	Horizontal	-57.3	-13.0	44.3	225
3	5145.0	-54.95	2.4	11.35	Horizontal	-46.0	-13.0	33.0	45
4	6860.0	-54.65	4.5	10.85	Horizontal	-48.3	-13.0	35.3	90
5	8575.0	-53.45	5.1	11.35	Horizontal	-47.2	-13.0	34.2	180
6	10290.0	-49.15	5.3	11.95	Horizontal	-42.5	-13.0	29.5	270
7	12005.0	-51.35	5.5	13.55	Horizontal	-43.3	-13.0	30.3	135
8	13720.0	-48.05	6.3	13.75	Horizontal	-40.6	-13.0	27.6	180
9	15435.0	-49.95	6.7	13.85	Horizontal	-42.8	-13.0	29.8	225
10	17150.0	-48.35	6.8	14.25	Horizontal	-40.9	-13.0	27.9	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 Horizontal position.

LTE Band 4 QPSK 10MHz CH-Middle, 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	-63.65	2.6	10.75	Horizontal	-55.5	-13.0	42.5	90
3	5197.5	-53.95	2.4	11.05	Horizontal	-45.3	-13.0	32.3	180
4	6930.0	-54.95	4.5	11.15	Horizontal	-48.3	-13.0	35.3	270
5	8662.5	-52.85	5.1	11.35	Horizontal	-46.6	-13.0	33.6	180
6	10395.0	-48.75	5.3	11.95	Horizontal	-42.1	-13.0	29.1	225
7	12127.5	-50.75	5.5	13.55	Horizontal	-42.7	-13.0	29.7	45
8	13860.0	-47.05	6.3	13.75	Horizontal	-39.6	-13.0	26.6	90
9	15592.5	-48.25	6.7	13.85	Horizontal	-41.1	-13.0	28.1	180
10	17325.0	-46.55	6.8	14.25	Horizontal	-39.1	-13.0	26.1	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 Horizontal position.

LTE Band 4 QPSK 10MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3500.0	-63.25	2.6	10.15	Horizontal	-55.7	-13.0	42.7	270
3	5250.0	-55.35	2.4	11.05	Horizontal	-46.7	-13.0	33.7	180
4	7000.0	-55.95	4.5	11.15	Horizontal	-49.3	-13.0	36.3	225
5	8750.0	-53.05	5.1	11.35	Horizontal	-46.8	-13.0	33.8	45
6	10500.0	-50.05	5.3	11.95	Horizontal	-43.4	-13.0	30.4	90
7	12250.0	-49.35	5.5	13.55	Horizontal	-41.3	-13.0	28.3	180
8	14000.0	-47.55	6.3	13.75	Horizontal	-40.1	-13.0	27.1	270
9	15750.0	-46.65	6.7	13.85	Horizontal	-39.5	-13.0	26.5	45
10	17500.0	-46.85	6.8	14.25	Horizontal	-39.4	-13.0	26.4	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 Horizontal position.

LTE Band 4 QPSK 15MHz CH Low, 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	-63.75	2.6	10.15	Horizontal	-56.2	-13.0	43.2	45
3	5152.5	-56.15	2.4	11.35	Horizontal	-47.2	-13.0	34.2	90
4	6870.0	-55.45	4.5	10.85	Horizontal	-49.1	-13.0	36.1	90
5	8587.5	-53.55	5.1	11.35	Horizontal	-47.3	-13.0	34.3	45
6	10305.0	-49.15	5.3	11.95	Horizontal	-42.5	-13.0	29.5	135
7	12022.5	-50.85	5.5	13.55	Horizontal	-42.8	-13.0	29.8	225
8	13740.0	-47.05	6.3	13.75	Horizontal	-39.6	-13.0	26.6	45
9	15457.5	-48.45	6.7	13.85	Horizontal	-41.3	-13.0	28.3	90
10	17175.0	-47.85	6.8	14.25	Horizontal	-40.4	-13.0	27.4	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 Horizontal position.

LTE Band 4 QPSK 15MHz CH-Middle, 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	-63.85	2.6	10.75	Horizontal	-55.7	-13.0	42.7	135
3	5197.5	-57.35	2.4	11.05	Horizontal	-48.7	-13.0	35.7	45
4	6930.0	-55.55	4.5	11.15	Horizontal	-48.9	-13.0	35.9	90
5	8662.5	-50.85	5.1	11.35	Horizontal	-44.6	-13.0	31.6	180
6	10395.0	-49.75	5.3	11.95	Horizontal	-43.1	-13.0	30.1	270
7	12127.5	-49.35	5.5	13.55	Horizontal	-41.3	-13.0	28.3	225
8	13860.0	-47.05	6.3	13.75	Horizontal	-39.6	-13.0	26.6	135
9	15592.5	-48.25	6.7	13.85	Horizontal	-41.1	-13.0	28.1	225
10	17325.0	-46.65	6.8	14.25	Horizontal	-39.2	-13.0	26.2	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 Horizontal position.

LTE Band 4 QPSK 15MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3495.0	-62.55	2.6	10.15	Horizontal	-55.0	-13.0	42.0	90
3	5242.5	-59.75	2.4	11.05	Horizontal	-51.1	-13.0	38.1	135
4	6990.0	-54.95	4.5	11.15	Horizontal	-48.3	-13.0	35.3	225
5	8737.5	-52.65	5.1	11.35	Horizontal	-46.4	-13.0	33.4	45
6	10485.0	-50.05	5.3	11.95	Horizontal	-43.4	-13.0	30.4	90
7	12232.5	-49.35	5.5	13.55	Horizontal	-41.3	-13.0	28.3	135
8	13980.0	-47.55	6.3	13.75	Horizontal	-40.1	-13.0	27.1	135
9	15727.5	-47.65	6.7	13.85	Horizontal	-40.5	-13.0	27.5	90
10	17475.0	-47.75	6.8	14.25	Horizontal	-40.3	-13.0	27.3	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 Horizontal position.

LTE Band 4 QPSK 20MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3440.0	-63.55	2.6	10.15	Horizontal	-56.0	-13.0	43.0	135
3	5160.0	-54.95	2.4	11.35	Horizontal	-46.0	-13.0	33.0	90
4	6880.0	-54.15	4.5	10.85	Horizontal	-47.8	-13.0	34.8	45
5	8600.0	-52.95	5.1	11.35	Horizontal	-46.7	-13.0	33.7	90
6	10320.0	-49.15	5.3	11.95	Horizontal	-42.5	-13.0	29.5	90
7	12040.0	-49.35	5.5	13.55	Horizontal	-41.3	-13.0	28.3	135
8	13760.0	-47.05	6.3	13.75	Horizontal	-39.6	-13.0	26.6	225
9	15480.0	-48.95	6.7	13.85	Horizontal	-41.8	-13.0	28.8	135
10	17200.0	-47.35	6.8	14.25	Horizontal	-39.9	-13.0	26.9	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 Horizontal position.

LTE Band 4 QPSK 20MHz CH-Middle, 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	-63.95	2.6	10.75	Horizontal	-55.8	-13.0	42.8	90
3	5197.5	-57.25	2.4	11.05	Horizontal	-48.6	-13.0	35.6	45
4	6930.0	-55.95	4.5	11.15	Horizontal	-49.3	-13.0	36.3	45
5	8662.5	-52.85	5.1	11.35	Horizontal	-46.6	-13.0	33.6	180
6	10395.0	-48.95	5.3	11.95	Horizontal	-42.3	-13.0	29.3	270
7	12127.5	-50.35	5.5	13.55	Horizontal	-42.3	-13.0	29.3	225
8	13860.0	-49.05	6.3	13.75	Horizontal	-41.6	-13.0	28.6	135
9	15592.5	-49.25	6.7	13.85	Horizontal	-42.1	-13.0	29.1	180
10	17325.0	-46.75	6.8	14.25	Horizontal	-39.3	-13.0	26.3	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 Horizontal position.

LTE Band 4 QPSK 20MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	EIRP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3490.0	-63.35	2.6	10.15	Horizontal	-55.8	-13.0	42.8	45
3	5235.0	-57.45	2.4	11.05	Horizontal	-48.8	-13.0	35.8	225
4	6980.0	-54.95	4.5	11.15	Horizontal	-48.3	-13.0	35.3	135
5	8725.0	-53.45	5.1	11.35	Horizontal	-47.2	-13.0	34.2	90
6	10470.0	-48.05	5.3	11.95	Horizontal	-41.4	-13.0	28.4	45
7	12215.0	-50.35	5.5	13.55	Horizontal	-42.3	-13.0	29.3	90
8	13960.0	-47.55	6.3	13.75	Horizontal	-40.1	-13.0	27.1	45
9	15705.0	-48.65	6.7	13.85	Horizontal	-41.5	-13.0	28.5	135
10	17450.0	-46.75	6.8	14.25	Horizontal	-39.3	-13.0	26.3	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 Horizontal position.

LTE Band 7 QPSK 5MHz CH-Low, 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	-47.15	2.00	9.15	Horizontal	-40.0	-25.0	15.0	180
3	7501.1	-49.75	2.50	11.35	Horizontal	-40.9	-25.0	15.9	225
4	10001.3	-50.95	4.20	12.05	Horizontal	-43.1	-25.0	18.1	45
5	12512.5	-47.35	5.20	12.85	Horizontal	-39.7	-25.0	14.7	180
6	15015.0	-47.13	5.50	14.23	Horizontal	-38.4	-25.0	13.4	270
7	17517.5	-46.55	5.70	14.15	Horizontal	-38.1	-25.0	13.1	135
8	20002.4	-45.06	6.30	13.76	Horizontal	-37.6	-25.0	12.6	180
9	22502.7	-44.75	6.80	14.05	Horizontal	-37.5	-25.0	12.5	225
10	25003.0	-45.14	6.90	14.84	Horizontal	-37.2	-25.0	12.2	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 Horizontal position.



LTE Band 7 QPSK 5MHz CH-Middle, 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	-49.05	2.00	9.15	Horizontal	-41.9	-25.0	16.9	135
3	7598.6	-58.55	2.50	11.35	Horizontal	-49.7	-25.0	24.7	180
4	10130.6	-53.65	4.20	12.05	Horizontal	-45.8	-25.0	20.8	90
5	12675.0	-49.45	5.20	12.85	Horizontal	-41.8	-25.0	16.8	45
6	15210.0	-49.83	5.50	14.23	Horizontal	-41.1	-25.0	16.1	180
7	17745.0	-46.55	5.70	14.15	Horizontal	-38.1	-25.0	13.1	270
8	20280.0	-45.86	6.30	13.76	Horizontal	-38.4	-25.0	13.4	45
9	22815.0	-44.85	6.80	14.05	Horizontal	-37.6	-25.0	12.6	180
10	25350.0	-45.34	6.90	14.84	Horizontal	-37.4	-25.0	12.4	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 Horizontal position.

LTE Band 7 QPSK 5MHz CH-High, 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	-55.25	2.00	9.15	Horizontal	-48.1	-25.0	23.1	225
3	7696.1	-58.75	2.50	11.35	Horizontal	-49.9	-25.0	24.9	45
4	10261.1	-52.25	4.20	12.05	Horizontal	-44.4	-25.0	19.4	90
5	12837.5	-47.25	5.20	12.85	Horizontal	-39.6	-25.0	14.6	180
6	15405.0	-49.83	5.50	14.23	Horizontal	-41.1	-25.0	16.1	180
7	17972.5	-46.55	5.70	14.15	Horizontal	-38.1	-25.0	13.1	270
8	20540.0	-45.86	6.30	13.76	Horizontal	-38.4	-25.0	13.4	135
9	23107.5	-44.85	6.80	14.05	Horizontal	-37.6	-25.0	12.6	180
10	25675.0	-45.34	6.90	14.84	Horizontal	-37.4	-25.0	12.4	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 Horizontal position.



LTE Band 7 QPSK 10MHz CH-Low, 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	-45.25	2.00	9.15	Horizontal	-38.1	-25.0	13.1	225
3	7515.0	-53.45	2.50	11.35	Horizontal	-44.6	-25.0	19.6	45
4	10002.4	-49.75	4.20	12.05	Horizontal	-41.9	-25.0	16.9	180
5	12525.0	-45.55	5.20	12.85	Horizontal	-37.9	-25.0	12.9	270
6	15030.0	-50.03	5.50	14.23	Horizontal	-41.3	-25.0	16.3	135
7	17535.0	-47.85	5.70	14.15	Horizontal	-39.4	-25.0	14.4	180
8	20040.0	-46.06	6.30	13.76	Horizontal	-38.6	-25.0	13.6	225
9	22545.0	-45.35	6.80	14.05	Horizontal	-38.1	-25.0	13.1	90
10	25050.0	-45.64	6.90	14.84	Horizontal	-37.7	-25.0	12.7	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 Horizontal position.

LTE Band 7 QPSK 10MHz CH-Middle, 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	Horizontal	-42.3	-25.0	17.3	45
3	75915.0	-57.75	2.50	11.35	Horizontal	-48.9	-25.0	23.9	180
4	10140.0	-51.65	4.20	12.05	Horizontal	-43.8	-25.0	18.8	270
5	12675.0	-46.75	5.20	12.85	Horizontal	-39.1	-25.0	14.1	135
6	15210.0	-49.23	5.50	14.23	Horizontal	-40.5	-25.0	15.5	180
7	17745.0	-46.35	5.70	14.15	Horizontal	-37.9	-25.0	12.9	225
8	20280.0	-45.66	6.30	13.76	Horizontal	-38.2	-25.0	13.2	45
9	22815.0	-44.85	6.80	14.05	Horizontal	-37.6	-25.0	12.6	90
10	25350.0	-45.04	6.90	14.84	Horizontal	-37.1	-25.0	12.1	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 Horizontal position.



LTE Band 7 QPSK 10MHz CH-High, 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	-49.45	2.00	10.15	Horizontal	-41.3	-25.0	16.3	45
3	7681.9	-56.25	2.50	11.35	Horizontal	-47.4	-25.0	22.4	180
4	10242.0	-54.45	4.20	12.05	Horizontal	-46.6	-25.0	21.6	225
5	12825.0	-52.15	5.20	14.85	Horizontal	-42.5	-25.0	17.5	45
6	15390.0	-49.43	5.50	13.23	Horizontal	-41.7	-25.0	16.7	90
7	17955.0	-44.75	5.70	12.15	Horizontal	-38.3	-25.0	13.3	180
8	20520.0	-45.06	6.30	13.76	Horizontal	-37.6	-25.0	12.6	270
9	23085.0	-45.35	6.80	14.05	Horizontal	-38.1	-25.0	13.1	180
10	25650.0	-44.74	6.90	14.84	Horizontal	-36.8	-25.0	11.8	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 Horizontal position.

LTE Band 7 QPSK 15MHz CH-Low, 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	-55.35	2.00	10.15	Horizontal	-47.2	-25.0	22.2	270
3	7502.6	-53.15	2.50	11.35	Horizontal	-44.3	-25.0	19.3	135
4	1000.4	-53.25	4.20	12.05	Horizontal	-45.4	-25.0	20.4	180
5	12537.5	-51.15	5.20	14.85	Horizontal	-41.5	-25.0	16.5	225
6	15045.0	-48.03	5.50	13.23	Horizontal	-40.3	-25.0	15.3	45
7	17552.5	-45.55	5.70	12.15	Horizontal	-39.1	-25.0	14.1	90
8	20060.0	-46.16	6.30	13.76	Horizontal	-38.7	-25.0	13.7	180
9	22567.5	-45.35	6.80	14.05	Horizontal	-38.1	-25.0	13.1	270
10	25075.0	-45.54	6.90	14.84	Horizontal	-37.6	-25.0	12.6	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 Horizontal position.



LTE Band 7 QPSK 15MHz CH-Middle, 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	Horizontal	-42.4	-25.0	17.4	135
3	7584.8	-55.35	2.50	11.35	Horizontal	-46.5	-25.0	21.5	270
4	10140.0	-50.95	4.20	12.05	Horizontal	-43.1	-25.0	18.1	135
5	12675.0	-51.05	5.20	14.85	Horizontal	-41.4	-25.0	16.4	180
6	15210.0	-49.03	5.50	13.23	Horizontal	-41.3	-25.0	16.3	225
7	17745.0	-44.45	5.70	12.15	Horizontal	-38.0	-25.0	13.0	45
8	20280.0	-44.66	6.30	13.76	Horizontal	-37.2	-25.0	12.2	180
9	22815.0	-43.85	6.80	14.05	Horizontal	-36.6	-25.0	11.6	270
10	25350.0	-45.04	6.90	14.84	Horizontal	-37.1	-25.0	12.1	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 Horizontal position.

LTE Band 7 QPSK 15MHz CH-High, 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	-54.05	2.00	10.15	Horizontal	-45.9	-25.0	20.9	270
3	7667.3	-59.65	2.50	11.35	Horizontal	-50.8	-25.0	25.8	135
4	10250.0	-52.65	4.20	12.05	Horizontal	-44.8	-25.0	19.8	45
5	12812.5	-48.35	5.20	14.85	Horizontal	-38.7	-25.0	13.7	270
6	15375.0	-48.53	5.50	13.23	Horizontal	-40.8	-25.0	15.8	180
7	17937.5	-43.95	5.70	12.15	Horizontal	-37.5	-25.0	12.5	270
8	20500.0	-44.56	6.30	13.76	Horizontal	-37.1	-25.0	12.1	135
9	23062.5	-43.65	6.80	14.05	Horizontal	-36.4	-25.0	11.4	180
10	25625.0	-44.74	6.90	14.84	Horizontal	-36.8	-25.0	11.8	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 Horizontal position.



LTE Band 7 QPSK 20MHz CH-Low, 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	-44.95	2.00	10.15	Horizontal	-36.8	-25.0	11.8	270
3	7503.4	-52.05	2.50	11.35	Horizontal	-43.2	-25.0	18.2	180
4	10040.0	-52.25	4.20	12.05	Horizontal	-44.4	-25.0	19.4	270
5	12550.0	-51.55	5.20	14.85	Horizontal	-41.9	-25.0	16.9	135
6	15060.0	-48.93	5.50	13.23	Horizontal	-41.2	-25.0	16.2	180
7	17570.0	-44.95	5.70	12.15	Horizontal	-38.5	-25.0	13.5	270
8	20080.0	-45.06	6.30	13.76	Horizontal	-37.6	-25.0	12.6	135
9	22590.0	-44.45	6.80	14.05	Horizontal	-37.2	-25.0	12.2	45
10	25100.0	-44.24	6.90	14.84	Horizontal	-36.3	-25.0	11.3	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 Horizontal position.

LTE Band 7 QPSK 20MHz CH-Middle, 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	-48.05	2.00	10.15	Horizontal	-39.9	-25.0	14.9	270
3	7578.0	-57.05	2.50	11.35	Horizontal	-48.2	-25.0	23.2	135
4	10140.0	-52.05	4.20	12.05	Horizontal	-44.2	-25.0	19.2	45
5	12675.0	-50.85	5.20	14.85	Horizontal	-41.2	-25.0	16.2	270
6	15210.0	-49.43	5.50	13.23	Horizontal	-41.7	-25.0	16.7	180
7	17745.0	-44.25	5.70	12.15	Horizontal	-37.8	-25.0	12.8	270
8	20280.0	-45.76	6.30	13.76	Horizontal	-38.3	-25.0	13.3	135
9	22815.0	-44.35	6.80	14.05	Horizontal	-37.1	-25.0	12.1	45
10	25350.0	-44.84	6.90	14.84	Horizontal	-36.9	-25.0	11.9	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 Horizontal position.



LTE Band 7 QPSK 20MHz CH-High, 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	-52.85	2.00	10.15	Horizontal	-44.7	-25.0	19.7	45
3	7653.4	-57.05	2.50	11.35	Horizontal	-48.2	-25.0	23.2	180
4	10240.0	-52.35	4.20	12.05	Horizontal	-44.5	-25.0	19.5	270
5	12800.0	-51.35	5.20	14.85	Horizontal	-41.7	-25.0	16.7	135
6	15360.0	-49.03	5.50	13.23	Horizontal	-41.3	-25.0	16.3	45
7	17920.0	-45.15	5.70	12.15	Horizontal	-38.7	-25.0	13.7	270
8	20480.0	-45.36	6.30	13.76	Horizontal	-37.9	-25.0	12.9	180
9	23040.0	-44.85	6.80	14.05	Horizontal	-37.6	-25.0	12.6	270
10	25600.0	-44.84	6.90	14.84	Horizontal	-36.9	-25.0	11.9	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 Horizontal position.

LTE Band 12 QPSK 1.4MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1399.40	-60.95	2.00	10.15	Horizontal	-52.8	-13.0	39.8	270
3	2099.10	-65.85	2.50	11.35	Horizontal	-57.0	-13.0	44.0	225
4	2798.80	-61.75	4.20	10.85	Horizontal	-55.1	-13.0	42.1	180
5	3498.50	-63.35	5.20	11.35	Horizontal	-57.2	-13.0	44.2	135
6	4198.20	-54.65	5.50	11.95	Horizontal	-48.2	-13.0	35.2	270
7	4897.90	-63.05	5.70	13.55	Horizontal	-55.2	-13.0	42.2	315
8	5597.60	-61.75	6.30	13.75	Horizontal	-54.3	-13.0	41.3	315
9	6297.30	-59.05	6.80	13.85	Horizontal	-52.0	-13.0	39.0	270
10	6997.00	-58.45	6.90	14.25	Horizontal	-51.1	-13.0	38.1	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 Horizontal position.

LTE Band 12 QPSK 1.4MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-65.15	2.00	10.75	Horizontal	-56.4	-13.0	43.4	45
3	2122.50	-63.74	2.51	11.05	Horizontal	-55.2	-13.0	42.2	315
4	2830.00	-62.65	4.20	11.15	Horizontal	-55.7	-13.0	42.7	270
5	3537.50	-64.65	5.20	11.15	Horizontal	-58.7	-13.0	45.7	315
6	4245.00	-53.45	5.50	11.95	Horizontal	-47.0	-13.0	34.0	90
7	4952.50	-63.55	5.70	13.55	Horizontal	-55.7	-13.0	42.7	225
8	5660.00	-61.85	6.30	13.75	Horizontal	-54.4	-13.0	41.4	180
9	6367.50	-60.95	6.80	13.85	Horizontal	-53.9	-13.0	40.9	45
10	7075.00	-57.25	6.90	14.25	Horizontal	-49.9	-13.0	36.9	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 Horizontal position.

LTE Band 12 QPSK 1.4MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1430.60	-67.75	2.00	10.15	Horizontal	-59.6	-13.0	46.6	135
3	2145.90	-64.24	2.51	11.05	Horizontal	-55.7	-13.0	42.7	270
4	2861.20	-63.35	4.20	11.15	Horizontal	-56.4	-13.0	43.4	315
5	3576.50	-63.15	5.20	11.15	Horizontal	-57.2	-13.0	44.2	270
6	4291.80	-54.95	5.50	11.95	Horizontal	-48.5	-13.0	35.5	135
7	5007.10	-63.45	5.70	13.55	Horizontal	-55.6	-13.0	42.6	270
8	5722.40	-60.75	6.30	13.75	Horizontal	-53.3	-13.0	40.3	315
9	6437.70	-59.55	6.80	13.85	Horizontal	-52.5	-13.0	39.5	225
10	7153.00	-57.75	6.90	14.25	Horizontal	-50.4	-13.0	37.4	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 Horizontal position.

LTE Band 12 QPSK 3MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1401.00	-60.55	2.00	10.15	Horizontal	-52.4	-13.0	39.4	135
3	2101.50	-66.04	2.51	11.35	Horizontal	-57.2	-13.0	44.2	270
4	2802.00	-62.35	4.20	10.85	Horizontal	-55.7	-13.0	42.7	315
5	3502.50	-63.65	5.20	11.35	Horizontal	-57.5	-13.0	44.5	45
6	4203.00	-57.25	5.50	11.95	Horizontal	-50.8	-13.0	37.8	225
7	4903.50	-62.35	5.70	13.55	Horizontal	-54.5	-13.0	41.5	180
8	5604.00	-60.65	6.30	13.75	Horizontal	-53.2	-13.0	40.2	45
9	6304.50	-59.65	6.80	13.85	Horizontal	-52.6	-13.0	39.6	315
10	7005.00	-57.25	6.90	14.25	Horizontal	-49.9	-13.0	36.9	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 Horizontal position.

LTE Band 12 QPSK 3MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-68.55	2.00	10.75	Horizontal	-59.8	-13.0	46.8	90
3	2122.50	-61.74	2.51	11.05	Horizontal	-53.2	-13.0	40.2	225
4	2830.00	-61.65	4.20	11.15	Horizontal	-54.7	-13.0	41.7	225
5	3537.50	-63.55	5.20	11.15	Horizontal	-57.6	-13.0	44.6	270
6	4245.00	-53.75	5.50	11.95	Horizontal	-47.3	-13.0	34.3	45
7	4952.50	-62.65	5.70	13.55	Horizontal	-54.8	-13.0	41.8	315
8	5660.00	-61.45	6.30	13.75	Horizontal	-54.0	-13.0	41.0	90
9	6367.50	-60.35	6.80	13.85	Horizontal	-53.3	-13.0	40.3	225
10	7075.00	-58.15	6.90	14.25	Horizontal	-50.8	-13.0	37.8	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 Horizontal position.

LTE Band 12 QPSK 3MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1429.00	-68.75	2.00	10.15	Horizontal	-60.6	-13.0	47.6	180
3	2143.50	-63.04	2.51	11.05	Horizontal	-54.5	-13.0	41.5	45
4	2858.00	-63.15	4.20	11.15	Horizontal	-56.2	-13.0	43.2	315
5	3572.50	-62.85	5.20	11.15	Horizontal	-56.9	-13.0	43.9	45
6	4287.00	-53.05	5.50	11.95	Horizontal	-46.6	-13.0	33.6	315
7	5001.50	-62.05	5.70	13.55	Horizontal	-54.2	-13.0	41.2	270
8	5716.00	-60.75	6.30	13.75	Horizontal	-53.3	-13.0	40.3	135
9	6430.50	-59.65	6.80	13.85	Horizontal	-52.6	-13.0	39.6	270
10	7145.00	-57.85	6.90	14.25	Horizontal	-50.5	-13.0	37.5	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 Horizontal position.

LTE Band 12 QPSK 5MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1403.00	-68.05	2.00	10.15	Horizontal	-59.9	-13.0	46.9	270
3	2104.50	-65.45	2.50	11.35	Horizontal	-56.6	-13.0	43.6	135
4	2806.00	-63.05	4.20	10.85	Horizontal	-56.4	-13.0	43.4	270
5	3507.50	-63.45	5.20	11.35	Horizontal	-57.3	-13.0	44.3	135
6	4209.00	-55.05	5.50	11.95	Horizontal	-48.6	-13.0	35.6	270
7	4910.50	-63.35	5.70	13.55	Horizontal	-55.5	-13.0	42.5	315
8	5612.00	-61.75	6.30	13.75	Horizontal	-54.3	-13.0	41.3	315
9	6313.50	-58.75	6.80	13.85	Horizontal	-51.7	-13.0	38.7	270
10	7015.00	-57.45	6.90	14.25	Horizontal	-50.1	-13.0	37.1	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 Horizontal position.

LTE Band 12 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-69.05	2.00	10.75	Horizontal	-60.3	-13.0	47.3	315
3	2122.50	-58.14	2.51	11.05	Horizontal	-49.6	-13.0	36.6	135
4	2830.00	-63.35	4.20	11.15	Horizontal	-56.4	-13.0	43.4	270
5	3537.50	-63.15	5.20	11.15	Horizontal	-57.2	-13.0	44.2	315
6	4245.00	-54.45	5.50	11.95	Horizontal	-48.0	-13.0	35.0	90
7	4952.50	-64.15	5.70	13.55	Horizontal	-56.3	-13.0	43.3	225
8	5660.00	-62.25	6.30	13.75	Horizontal	-54.8	-13.0	41.8	180
9	6367.50	-60.75	6.80	13.85	Horizontal	-53.7	-13.0	40.7	45
10	7075.00	-57.55	6.90	14.25	Horizontal	-50.2	-13.0	37.2	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 Horizontal position.

LTE Band 12 QPSK 5MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1427.00	-67.95	2.00	10.15	Horizontal	-59.8	-13.0	46.8	315
3	2140.50	-65.04	2.51	11.05	Horizontal	-56.5	-13.0	43.5	315
4	2854.00	-62.85	4.20	11.15	Horizontal	-55.9	-13.0	42.9	270
5	3567.50	-62.65	5.20	11.15	Horizontal	-56.7	-13.0	43.7	270
6	4281.00	-55.45	5.50	11.95	Horizontal	-49.0	-13.0	36.0	135
7	4994.50	-62.95	5.70	13.55	Horizontal	-55.1	-13.0	42.1	270
8	5708.00	-62.05	6.30	13.75	Horizontal	-54.6	-13.0	41.6	315
9	6421.50	-59.95	6.80	13.85	Horizontal	-52.9	-13.0	39.9	225
10	7135.00	-57.25	6.90	14.25	Horizontal	-49.9	-13.0	36.9	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 Horizontal position.

LTE Band 12 QPSK 10MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1408.00	-69.45	2.00	10.15	Horizontal	-61.3	-13.0	48.3	270
3	2112.00	-63.54	2.51	11.35	Horizontal	-54.7	-13.0	41.7	45
4	2816.00	-62.85	4.20	10.85	Horizontal	-56.2	-13.0	43.2	315
5	3520.00	-63.05	5.20	11.35	Horizontal	-56.9	-13.0	43.9	45
6	4224.00	-57.55	5.50	11.95	Horizontal	-51.1	-13.0	38.1	225
7	4928.00	-61.95	5.70	13.55	Horizontal	-54.1	-13.0	41.1	180
8	5632.00	-60.95	6.30	13.75	Horizontal	-53.5	-13.0	40.5	45
9	6336.00	-59.45	6.80	13.85	Horizontal	-52.4	-13.0	39.4	315
10	7040.00	-57.25	6.90	14.25	Horizontal	-49.9	-13.0	36.9	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 Horizontal position.

LTE Band 12 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1415.00	-68.85	2.00	10.75	Horizontal	-60.1	-13.0	47.1	90
3	2122.50	-62.94	2.51	11.05	Horizontal	-54.4	-13.0	41.4	225
4	2830.00	-62.75	4.20	11.15	Horizontal	-55.8	-13.0	42.8	180
5	3537.50	-63.25	5.20	11.15	Horizontal	-57.3	-13.0	44.3	270
6	4245.00	-54.35	5.50	11.95	Horizontal	-47.9	-13.0	34.9	45
7	4952.50	-61.95	5.70	13.55	Horizontal	-54.1	-13.0	41.1	315
8	5660.00	-60.85	6.30	13.75	Horizontal	-53.4	-13.0	40.4	90
9	6367.50	-59.75	6.80	13.85	Horizontal	-52.7	-13.0	39.7	225
10	7075.00	-57.35	6.90	14.25	Horizontal	-50.0	-13.0	37.0	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 Horizontal position.

LTE Band 12 QPSK 10MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1422.00	-67.35	2.00	10.15	Horizontal	-59.2	-13.0	46.2	45
3	2133.00	-61.64	2.51	11.05	Horizontal	-53.1	-13.0	40.1	315
4	2844.00	-63.15	4.20	11.15	Horizontal	-56.2	-13.0	43.2	270
5	3555.00	-63.45	5.20	11.15	Horizontal	-57.5	-13.0	44.5	45
6	4266.00	-52.95	5.50	11.95	Horizontal	-46.5	-13.0	33.5	315
7	4977.00	-62.55	5.70	13.55	Horizontal	-54.7	-13.0	41.7	270
8	5688.00	-60.65	6.30	13.75	Horizontal	-53.2	-13.0	40.2	135
9	6399.00	-59.95	6.80	13.85	Horizontal	-52.9	-13.0	39.9	270
10	7110.00	-57.35	6.90	14.25	Horizontal	-50.0	-13.0	37.0	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 Horizontal position.

LTE Band 17 QPSK 5MHz CH-Low, 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	-68.35	2.00	10.15	Horizontal	-60.2	-13.0	47.2	90
3	2119.5	-60.35	2.50	11.35	Horizontal	-51.5	-13.0	38.5	135
4	2826.0	-62.25	4.20	10.85	Horizontal	-55.6	-13.0	42.6	225
5	3532.5	-63.75	5.20	11.35	Horizontal	-57.6	-13.0	44.6	45
6	4239.0	-54.75	5.50	11.95	Horizontal	-48.3	-13.0	35.3	90
7	4945.5	-62.55	5.70	13.55	Horizontal	-54.7	-13.0	41.7	45
8	5652.0	-60.75	6.30	13.75	Horizontal	-53.3	-13.0	40.3	135
9	6358.5	-59.95	6.80	13.85	Horizontal	-52.9	-13.0	39.9	90
10	7065.0	-57.25	6.90	14.25	Horizontal	-49.9	-13.0	36.9	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 Horizontal position.

LTE Band 17 QPSK 5MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1420.0	-69.35	2.00	10.75	Horizontal	-60.6	-13.0	47.6	135
3	2130.0	-61.24	2.51	11.05	Horizontal	-52.7	-13.0	39.7	90
4	2840.0	-62.95	4.20	11.15	Horizontal	-56.0	-13.0	43.0	90
5	3550.0	-63.35	5.20	11.15	Horizontal	-57.4	-13.0	44.4	135
6	4260.0	-52.85	5.50	11.95	Horizontal	-46.4	-13.0	33.4	45
7	4970.0	-62.45	5.70	13.55	Horizontal	-54.6	-13.0	41.6	90
8	5680.0	-60.95	6.30	13.75	Horizontal	-53.5	-13.0	40.5	90
9	6390.0	-59.65	6.80	13.85	Horizontal	-52.6	-13.0	39.6	45
10	7100.0	-57.25	6.90	14.25	Horizontal	-49.9	-13.0	36.9	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 Horizontal position.

LTE Band 17 QPSK 5MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1427.0	-68.45	2.00	10.15	Horizontal	-60.3	-13.0	47.3	45
3	2140.5	-65.44	2.51	11.05	Horizontal	-56.9	-13.0	43.9	45
4	2854.0	-63.05	4.20	11.15	Horizontal	-56.1	-13.0	43.1	180
5	3567.5	-62.65	5.20	11.15	Horizontal	-56.7	-13.0	43.7	225
6	4281.0	-54.95	5.50	11.95	Horizontal	-48.5	-13.0	35.5	45
7	4994.5	-61.95	5.70	13.55	Horizontal	-54.1	-13.0	41.1	90
8	5708.0	-61.25	6.30	13.75	Horizontal	-53.8	-13.0	40.8	135
9	6421.5	-59.95	6.80	13.85	Horizontal	-52.9	-13.0	39.9	135
10	7135.0	-57.45	6.90	14.25	Horizontal	-50.1	-13.0	37.1	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 Horizontal position.

LTE Band 17 QPSK 10MHz CH-Low, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1418.0	-68.05	2.00	10.15	Horizontal	-59.9	-13.0	46.9	270
3	2127.0	-60.54	2.51	11.35	Horizontal	-51.7	-13.0	38.7	225
4	2836.0	-63.05	4.20	10.85	Horizontal	-56.4	-13.0	43.4	135
5	3545.0	-63.55	5.20	11.35	Horizontal	-57.4	-13.0	44.4	90
6	4254.0	-54.45	5.50	11.95	Horizontal	-48.0	-13.0	35.0	180
7	4963.0	-62.15	5.70	13.55	Horizontal	-54.3	-13.0	41.3	270
8	5672.0	-61.05	6.30	13.75	Horizontal	-53.6	-13.0	40.6	225
9	6381.0	-60.25	6.80	13.85	Horizontal	-53.2	-13.0	40.2	135
10	7090.0	-57.95	6.90	14.25	Horizontal	-50.6	-13.0	37.6	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 Horizontal position.

LTE Band 17 QPSK 10MHz CH-Middle, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1420.0	-69.55	2.00	10.75	Horizontal	-60.8	-13.0	47.8	180
3	2130.0	-60.34	2.51	11.05	Horizontal	-51.8	-13.0	38.8	225
4	2840.0	-62.55	4.20	11.15	Horizontal	-55.6	-13.0	42.6	45
5	3550.0	-62.65	5.20	11.15	Horizontal	-56.7	-13.0	43.7	45
6	4260.0	-53.45	5.50	11.95	Horizontal	-47.0	-13.0	34.0	90
7	4970.0	-62.45	5.70	13.55	Horizontal	-54.6	-13.0	41.6	135
8	5680.0	-60.65	6.30	13.75	Horizontal	-53.2	-13.0	40.2	225
9	6390.0	-60.25	6.80	13.85	Horizontal	-53.2	-13.0	40.2	45
10	7100.0	-57.55	6.90	14.25	Horizontal	-50.2	-13.0	37.2	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 Horizontal position.

LTE Band 17 QPSK 10MHz CH-High, RB 1

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1422.0	-68.65	2.00	10.15	Horizontal	-60.5	-13.0	47.5	225
3	2133.0	-65.34	2.51	11.05	Horizontal	-56.8	-13.0	43.8	135
4	2844.0	-63.05	4.20	11.15	Horizontal	-56.1	-13.0	43.1	90
5	3555.0	-55.95	5.20	11.15	Horizontal	-50.0	-13.0	37.0	135
6	4266.0	-63.95	5.50	11.95	Horizontal	-57.5	-13.0	44.5	135
7	4977.0	-54.95	5.70	13.55	Horizontal	-47.1	-13.0	34.1	135
8	5688.0	-62.25	6.30	13.75	Horizontal	-54.8	-13.0	41.8	90
9	6399.0	-60.35	6.80	13.85	Horizontal	-53.3	-13.0	40.3	225
10	7110.0	-60.15	6.90	14.25	Horizontal	-52.8	-13.0	39.8	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 Horizontal position.

6 Main Test Instruments

Name	Manufacturer	Type	Serial Number	Calibration Date	Expiration Time
Base Station Simulator	R&S	CMW500	113645	2017-05-14	2018-05-13
Power Splitter	Hua Xiang	SHX-GF2-2-13	10120101	2017-05-14	2018-05-13
Universal Radio Communication Tester	Agilent	E5515C	MY48367192	2017-05-14	2018-05-13
Spectrum Analyzer	Agilent	N9010A	MY47191109	2017-05-14	2018-05-13
Signal Analyzer	R&S	FSV30	100815	2016-12-16	2017-12-15
Signal generator	R&S	SMB 100A	102594	2017-05-14	2018-05-13
EMI Test Receiver	R&S	ESCI	100948	2017-05-20	2018-05-19
Trilog Antenna	SCHWARZBECK	VUBL 9163	9163-201	2014-12-06	2017-12-05
Horn Antenna	R&S	HF907	100126	2014-12-06	2017-12-05
Horn Antenna	ETS-Lindgren	3160-09	00102643	2015-01-30	2018-01-29
Climatic Chamber	Re Ce	PT-30B	20101891	2015-07-18	2018-07-17
RF Cable	Agilent	SMA 15cm	0001	2017-08-04	2018-02-03
Preamplifier	R&S	SCU18	102327	2017-06-18	2018-06-17

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Front Side



Back Side

a: EUT



Adapter 1



Adapter 2



Adapter 3

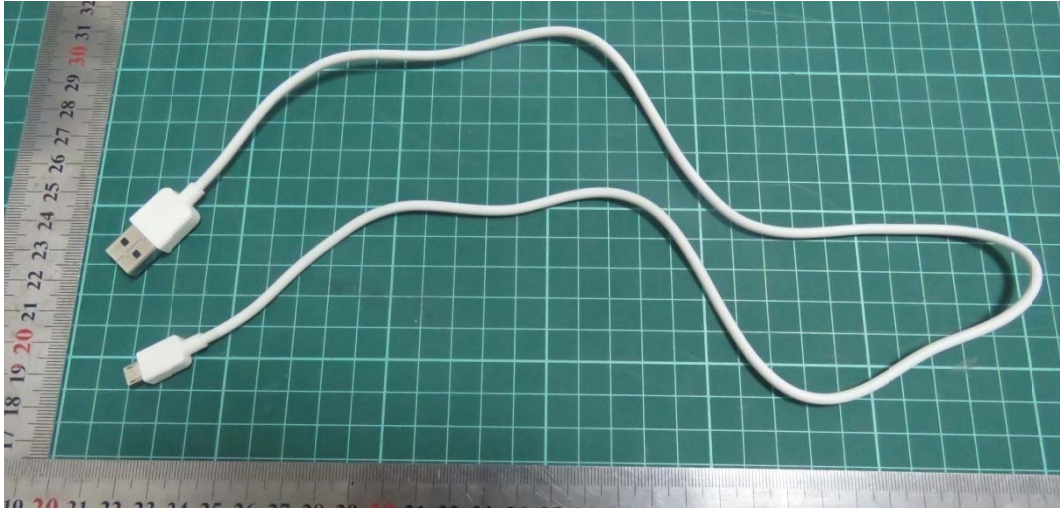


Adapter 4

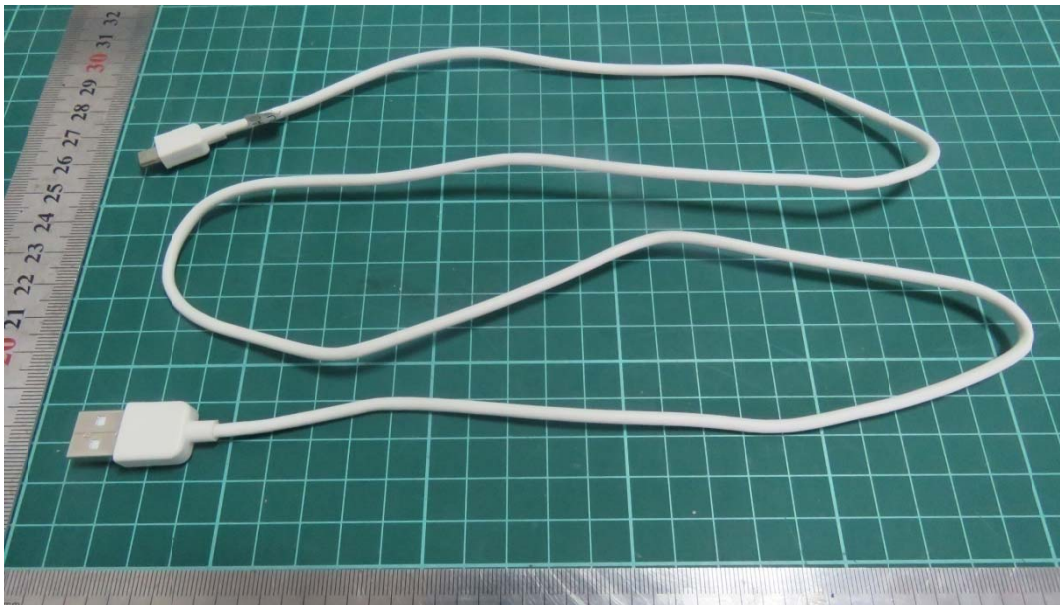


Adapter 5

b: Adapter



USB Cable 1

USB Cable 2
c: USB Cable



Earphone 1

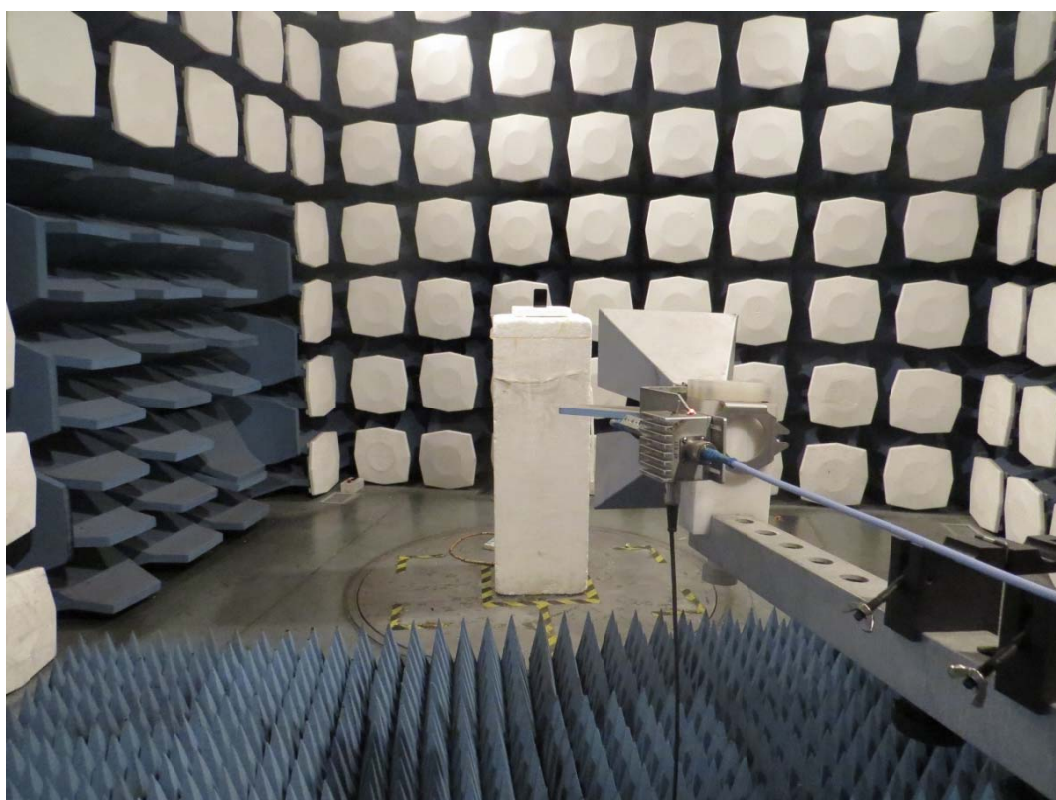
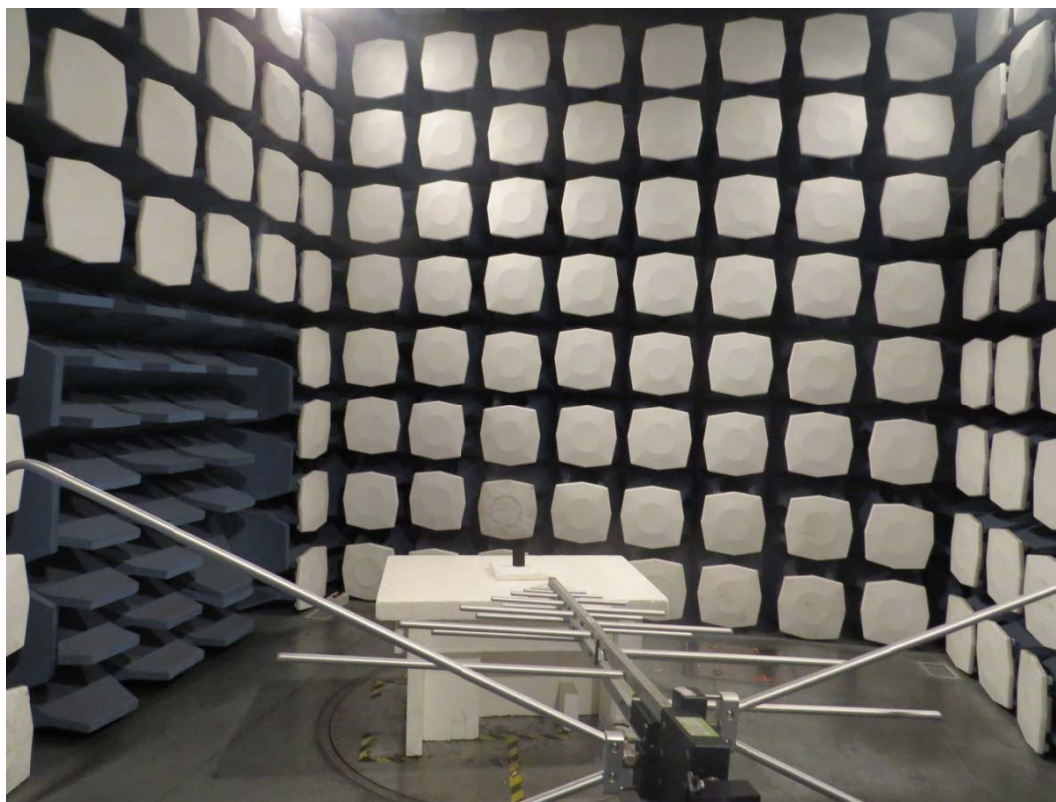


Earphone 2

d: Earphone

Picture 1 EUT and Accessory

A.2 Test Setup



Picture 2: Radiated Spurious Emissions Test setup