

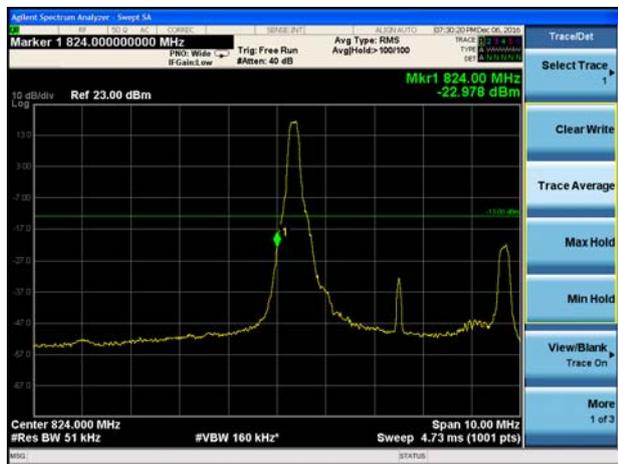
LTE Band 26 16QAM 3MHz CH-Low 100%RB



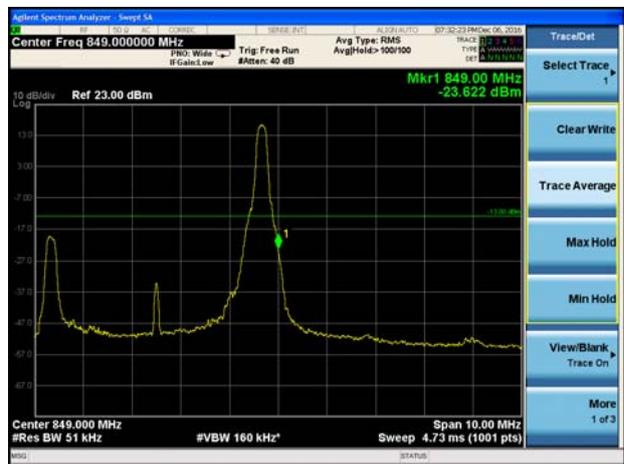
LTE Band 26 16QAM 3MHz CH-High 100%RB



LTE Band 26 16QAM 5MHz CH-Low 1RB



LTE Band 26 16QAM 5MHz CH-High 1RB



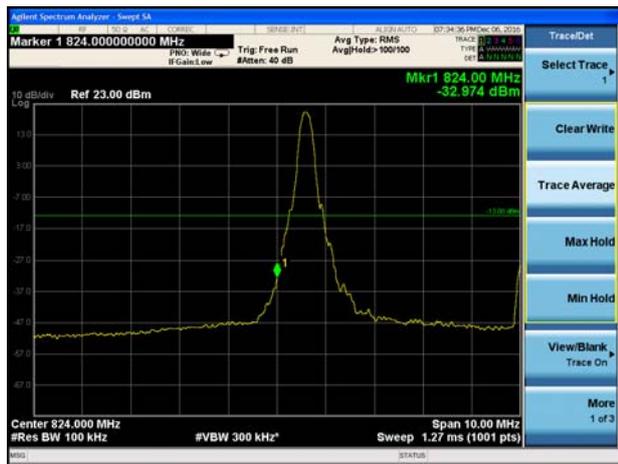
LTE Band 26 16QAM 5MHz CH-Low 100%RB



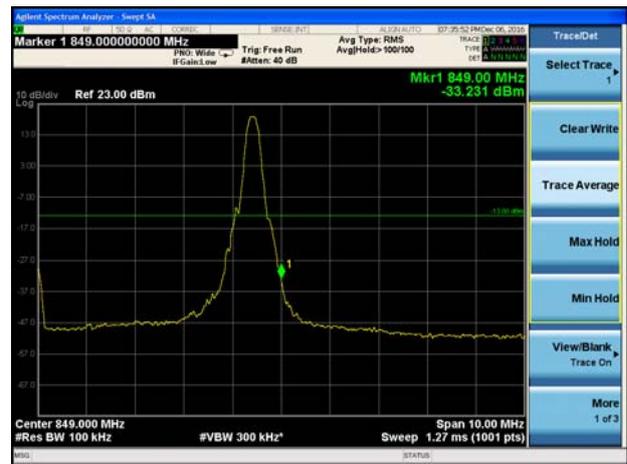
LTE Band 26 16QAM 5MHz CH-High 100%RB



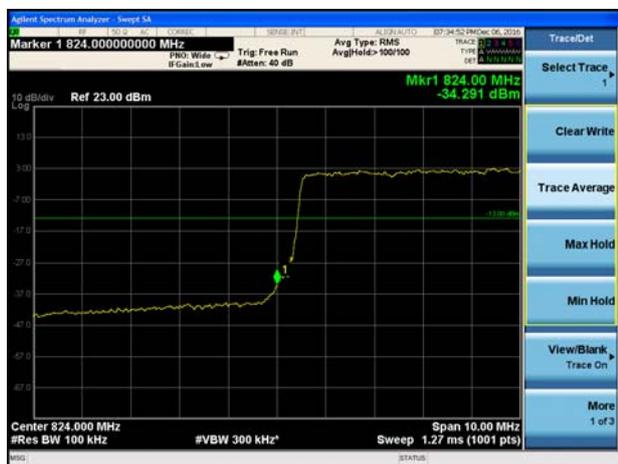
LTE Band 26 16QAM 10MHz CH-Low 1RB



LTE Band 26 16QAM 10MHz CH-High 1RB



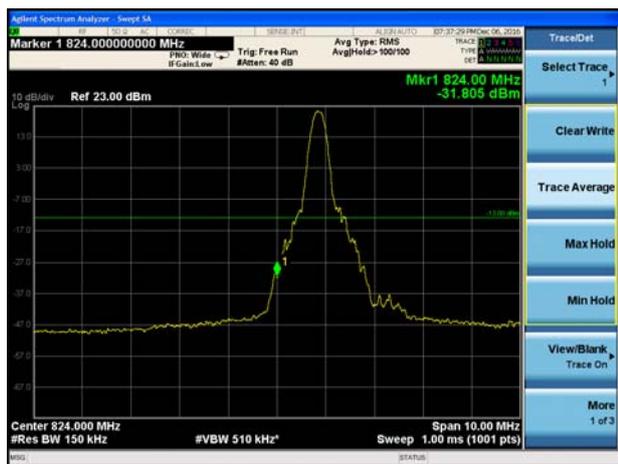
LTE Band 26 16QAM 10MHz CH-Low 100%RB



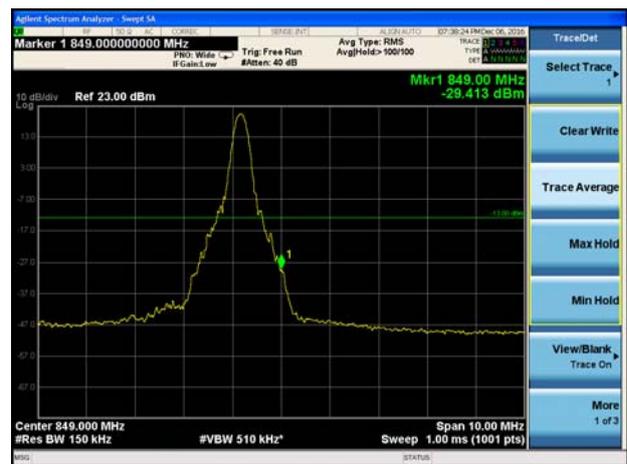
LTE Band 26 16QAM 10MHz CH-High 100%RB



LTE Band 26 16QAM 15MHz CH-Low 1RB

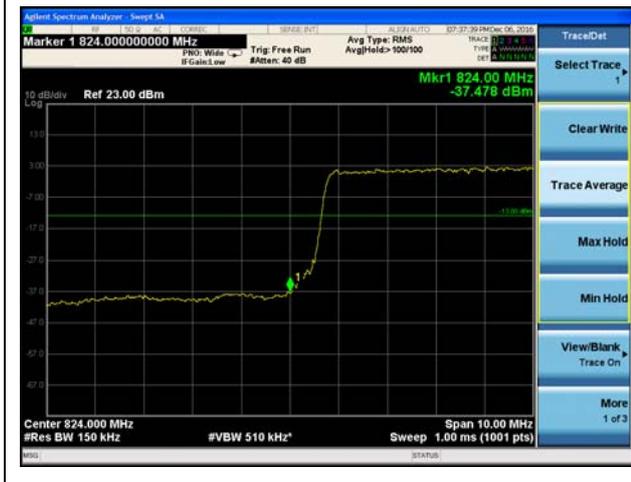


LTE Band 26 16QAM 15MHz CH-High 1RB





LTE Band 26 16QAM 15MHz CH-Low 100%RB



LTE Band 26 16QAM 15MHz CH-High 100%RB



5.5. Frequency Stability

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +55°C in 10°C step size,

(1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.

(2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.

(3) Repeat the above measurements at 10°C increments from -30°C to +55°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

2. Frequency Stability (Voltage Variation)

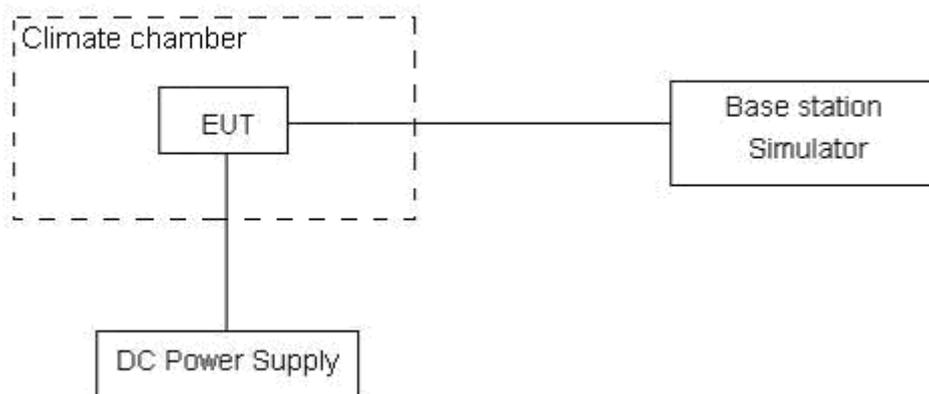
The frequency stability shall be measured with variation of primary supply voltage as follows:

(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

(2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.

This transceiver is specified to operate with an input voltage of between 3.5 V and 4.20 V, with a nominal voltage of 3.7V.

Test setup



Limits

According to the Sec. 22.355, the frequency stability of the carrier shall be accurate to within 2.5 ppm of the received frequency for mobile stations.

Limits	≤ 2.5 ppm
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Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 3$, $U = 0.01$ ppm.

Test Result

Mode	Test status	Test Results (ppm)			Limit (ppm)	Conclusion
		GSM (GMSK)	GPRS (GMSK)	EGPRS (8PSK)		
GSM 850 Channel 190	-30°C/3.7 V	0.0190	0.0209	0.0243	2.5	PASS
	-20°C/3.7 V	0.0168	0.0108	0.0238	2.5	PASS
	-10°C/3.7 V	0.0127	0.0187	0.0219	2.5	PASS
	0°C/3.7 V	0.0150	0.0293	0.0239	2.5	PASS
	10°C/3.7 V	0.0137	0.0278	0.0209	2.5	PASS
	20°C/3.7 V	0.0126	0.0231	0.0204	2.5	PASS
	30°C/3.7 V	0.0230	0.0243	0.0241	2.5	PASS
	40°C/3.7 V	0.0190	0.0236	0.0224	2.5	PASS
	50°C/3.7 V	0.0332	0.0259	0.0238	2.5	PASS
	55°C/3.7 V	0.0137	0.0255	0.0244	2.5	PASS
	20°C/3.5 V	0.0183	0.0176	0.0244	2.5	PASS
	20°C/4.20 V	0.0130	0.0117	0.0238	2.5	PASS
/	/	RMC			/	/
WCDMA Band V Channel 4183	-30°C/3.7 V	-0.00103			2.5	PASS
	-20°C/3.7 V	-0.00106			2.5	PASS
	-10°C/3.7 V	-0.00076			2.5	PASS
	0°C/3.7 V	-0.00017			2.5	PASS
	10°C/3.7 V	-0.00132			2.5	PASS
	20°C/3.7 V	-0.00136			2.5	PASS
	30°C/3.7 V	-0.00040			2.5	PASS
	40°C/3.7 V	-0.00135			2.5	PASS
	50°C/3.7 V	-0.00152			2.5	PASS
	55°C/3.7 V	-0.00148			2.5	PASS
	20°C/3.5 V	-0.00073			2.5	PASS
	20°C/4.20 V	-0.00084			2.5	PASS

Bandwidth	Test status	LTE Band 5 Channel 20525 Test Results (ppm)		
		QPSK	16QAM	Conclusion
1.4MHz	-30°C/3.7 V	-0.00573	-0.00685	PASS
	-20°C/3.7 V	0.00325	-0.00516	PASS
	-10°C/3.7 V	-0.00632	-0.00345	PASS
	0°C/3.7 V	-0.00149	-0.00554	PASS
	10°C/3.7 V	0.00126	0.00003	PASS
	20°C/3.7 V	0.00100	0.00722	PASS
	30°C/3.7 V	-0.00297	0.00008	PASS
	40°C/3.7 V	0.00395	-0.00339	PASS
	50°C/3.7 V	-0.00003	-0.00763	PASS
	20°C/3.5 V	-0.00562	0.02118	PASS
	20°C/4.20 V	-0.00322	0.01627	PASS
3MHz	-30°C/3.7 V	-0.00603	-0.00350	PASS
	-20°C/3.7 V	-0.00480	-0.00487	PASS
	-10°C/3.7 V	-0.00520	-0.00492	PASS
	0°C/3.7 V	0.00072	-0.00858	PASS
	10°C/3.7 V	-0.00752	-0.00398	PASS
	20°C/3.7 V	-0.00240	0.00040	PASS
	30°C/3.7 V	-0.00953	-0.00337	PASS
	40°C/3.7 V	-0.00343	-0.00506	PASS
	50°C/3.7 V	-0.00752	-0.00682	PASS
	20°C/3.5 V	-0.00316	-0.00228	PASS
	20°C/4.20 V	-0.00034	-0.00242	PASS
5MHz	-30°C/3.7 V	-0.00360	-0.00209	PASS
	-20°C/3.7 V	-0.00330	0.00207	PASS
	-10°C/3.7 V	-0.00100	0.00009	PASS
	0°C/3.7 V	-0.00429	-0.00328	PASS
	10°C/3.7 V	-0.00190	-0.00202	PASS
	20°C/3.7 V	0.00008	0.00110	PASS
	30°C/3.7 V	-0.00140	-0.00129	PASS
	40°C/3.7 V	-0.00431	0.00351	PASS
	50°C/3.7 V	0.00391	-0.00228	PASS
	20°C/3.5 V	0.00320	-0.00248	PASS
	20°C/4.20 V	-0.00517	0.00350	PASS
10MHz	-30°C/3.7 V	0.00229	-0.00403	PASS
	-20°C/3.7 V	-0.00244	-0.00110	PASS
	-10°C/3.7 V	0.00313	0.00308	PASS



	0°C/3.7 V	0.00186	0.00273	PASS
	10°C/3.7 V	-0.00093	0.00251	PASS
	20°C/3.7 V	0.00498	0.00237	PASS
	30°C/3.7 V	0.00234	0.00304	PASS
	40°C/3.7 V	0.00304	0.00021	PASS
	50°C/3.7 V	0.00017	0.00268	PASS
	20°C/3.5 V	0.00433	-0.00663	PASS
	20°C/4.20 V	-0.00143	-0.00269	PASS

Bandwidth	Test status	LTE Band 26 Channel 26915 Test Results (ppm)		
		QPSK	16QAM	Conclusion
1.4MHz	-30°C/3.7 V	0.00645	0.02353	PASS
	-20°C/3.7 V	-0.00115	0.00453	PASS
	-10°C/3.7 V	0.00370	0.00400	PASS
	0°C/3.7 V	0.00859	-0.00142	PASS
	10°C/3.7 V	0.00290	0.00066	PASS
	20°C/3.7 V	0.00221	0.00007	PASS
	30°C/3.7 V	-0.00184	-0.00277	PASS
	40°C/3.7 V	0.00343	0.00110	PASS
	50°C/3.7 V	0.00033	0.00236	PASS
	20°C/3.5 V	-0.00236	0.02827	PASS
	20°C/4.20 V	0.00314	0.02816	PASS
3MHz	-30°C/3.7 V	0.00147	0.00300	PASS
	-20°C/3.7 V	-0.00211	0.00402	PASS
	-10°C/3.7 V	0.00213	0.00477	PASS
	0°C/3.7 V	-0.00232	-0.00018	PASS
	10°C/3.7 V	-0.00702	-0.00030	PASS
	20°C/3.7 V	-0.00180	0.00198	PASS
	30°C/3.7 V	0.00176	0.00028	PASS
	40°C/3.7 V	-0.00301	0.00087	PASS
	50°C/3.7 V	-0.00433	0.00340	PASS
	20°C/3.5 V	0.00156	0.00392	PASS
	20°C/4.20 V	0.00115	0.00323	PASS
5MHz	-30°C/3.7 V	0.00210	-0.00180	PASS
	-20°C/3.7 V	0.00141	-0.00344	PASS
	-10°C/3.7 V	0.00205	-0.00294	PASS
	0°C/3.7 V	0.00272	-0.00208	PASS



	10°C/3.7 V	-0.00129	-0.00577	PASS
	20°C/3.7 V	-0.00040	-0.00583	PASS
	30°C/3.7 V	-0.00043	-0.00488	PASS
	40°C/3.7 V	0.00689	-0.00721	PASS
	50°C/3.7 V	0.00066	-0.00310	PASS
	20°C/3.5 V	-0.00247	0.00050	PASS
	20°C/4.20 V	-0.00056	0.00472	PASS
10MHz	-30°C/3.7 V	-0.00074	0.00480	PASS
	-20°C/3.7 V	0.00127	-0.00152	PASS
	-10°C/3.7 V	-0.00101	0.00875	PASS
	0°C/3.7 V	-0.00279	0.00248	PASS
	10°C/3.7 V	-0.00329	0.00241	PASS
	20°C/3.7 V	-0.00120	0.00173	PASS
	30°C/3.7 V	-0.00112	0.00320	PASS
	40°C/3.7 V	0.00027	0.00474	PASS
	50°C/3.7 V	-0.00205	0.00451	PASS
	20°C/3.5 V	-0.00253	0.00331	PASS
	20°C/4.20 V	-0.00229	0.00440	PASS
	15MHz	-30°C/3.7 V	-0.00105	-0.00362
-20°C/3.7 V		0.00218	0.00062	PASS
-10°C/3.7 V		0.00291	0.00178	PASS
0°C/3.7 V		-0.00176	-0.00116	PASS
10°C/3.7 V		0.00116	0.00263	PASS
20°C/3.7 V		0.00133	0.00673	PASS
30°C/3.7 V		0.00075	0.00712	PASS
40°C/3.7 V		0.00364	0.00661	PASS
50°C/3.7 V		0.00767	0.00289	PASS
20°C/3.5 V		0.00135	-0.00026	PASS
20°C/4.20 V		0.00109	0.00182	PASS

5.6. Spurious Emissions at Antenna Terminals

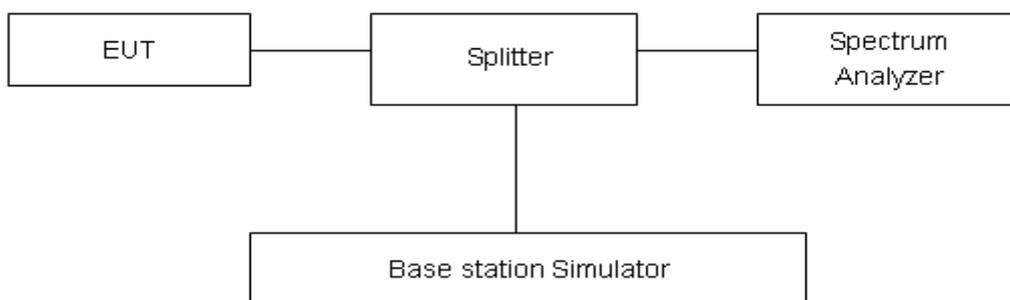
Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The EUT was connected to Spectrum Analyzer and Base Station Simulator via power Splitter. The measurement is carried out using a spectrum analyzer. The spectrum analyzer scans from 30MHz to the 10th harmonic of the carrier. The peak detector is used. RBW and VBW are set to 100 kHz, Sweep is set to ATUO.

Test setup



Limits

Rule Part 22.917(a) specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.”

Limit	-13 dBm
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Measurement Uncertainty

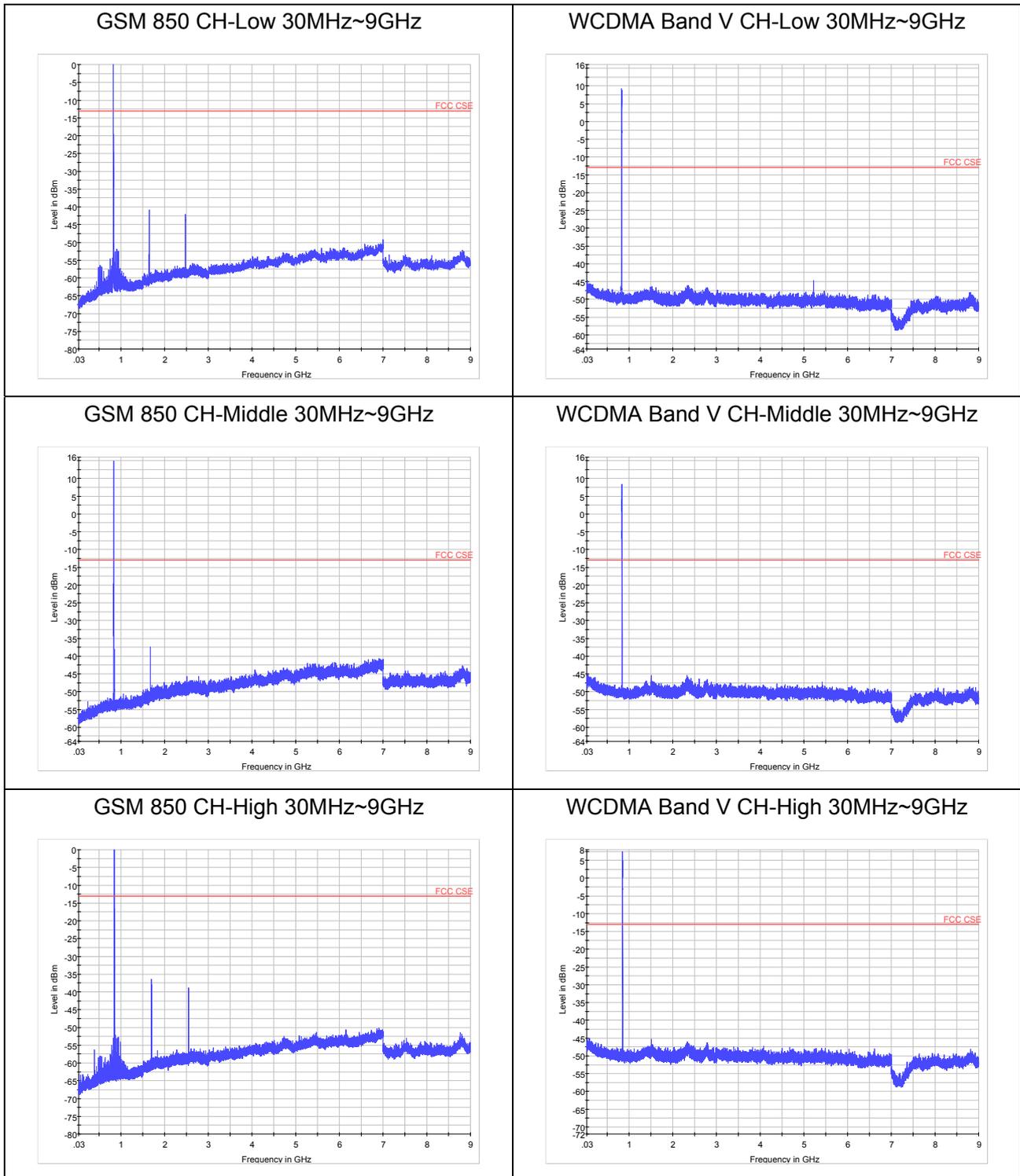
The assessed measurement uncertainty to ensure 99.75% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-12.75GHz	1.407 dB

Test Result

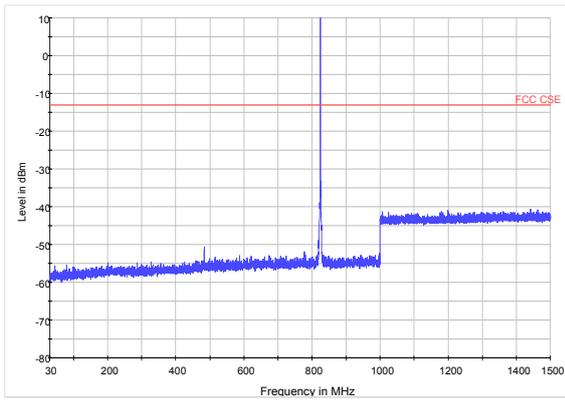
Sweep from 9 kHz to 30MHz, and the emissions more than 20 dB below the permissible value are not reported.

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

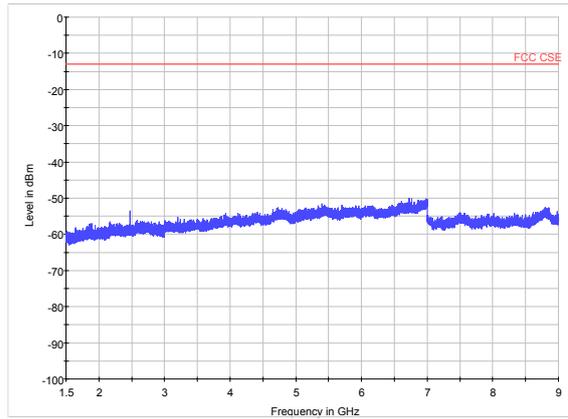




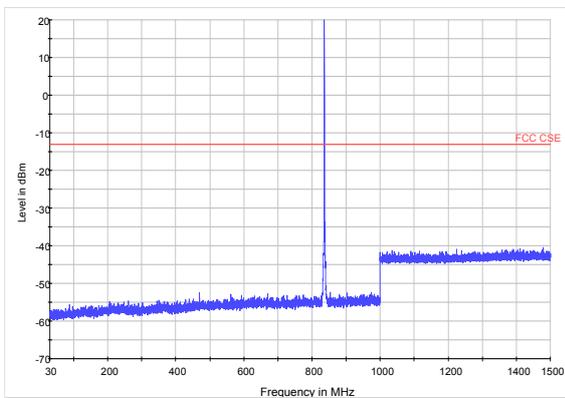
LTE Band 5 1.4MHz CH-Low 30MHz~1.5GHz



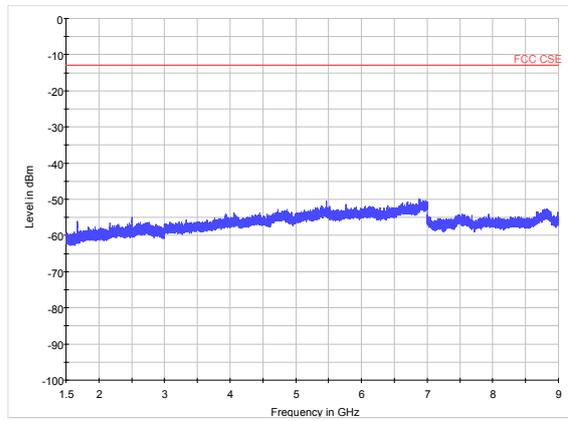
LTE Band 5 1.4MHz CH-Low 1.5GHz~9GHz



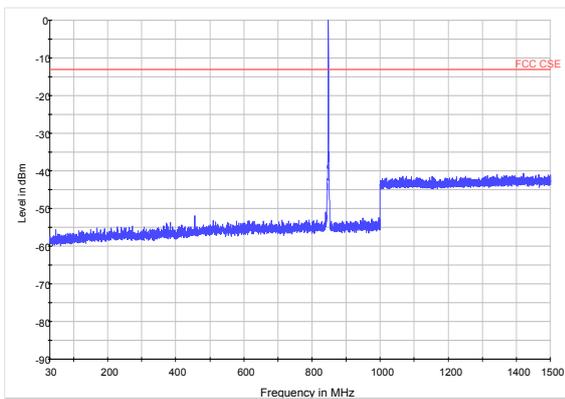
LTE Band 5 1.4MHz CH-Middle 30MHz~1.5GHz



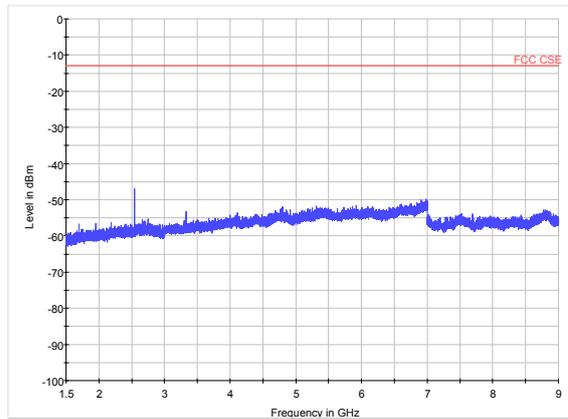
LTE Band 5 1.4MHz CH-Middle 1.5GHz~9GHz



LTE Band 5 1.4MHz CH-High 30MHz~1.5GHz

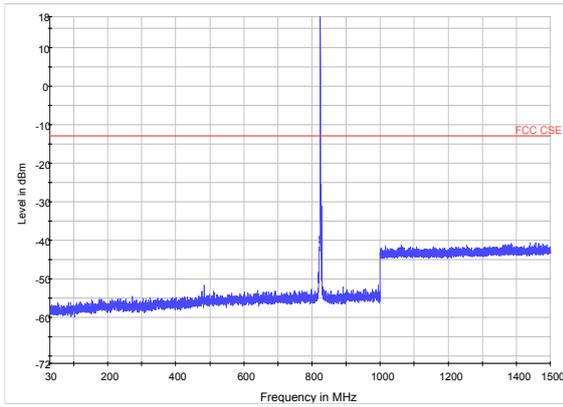


LTE Band 5 1.4MHz CH-High 1.5GHz~9GHz

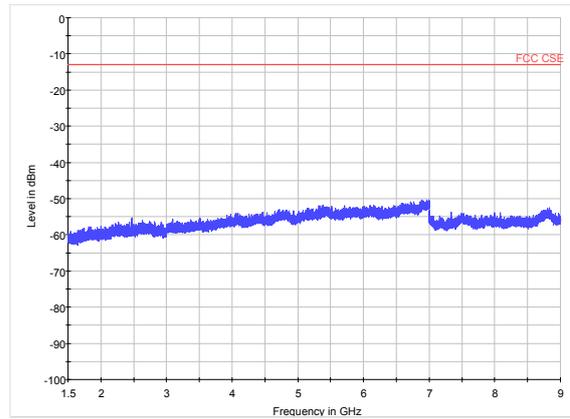




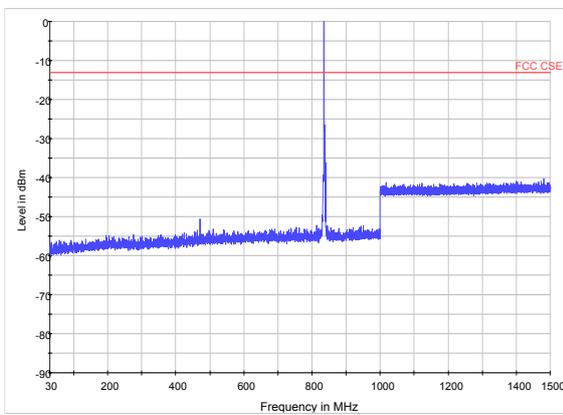
LTE Band 5 3MHz CH-Low 30MHz~1.5GHz



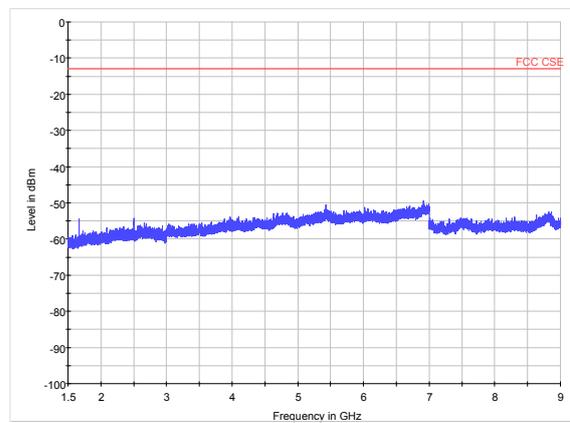
LTE Band 5 3MHz CH-Low 1.5GHz~9GHz



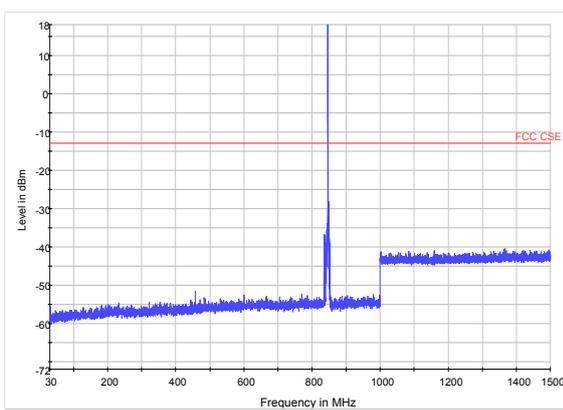
LTE Band 5 3MHz CH-Middle 30MHz~1.5GHz



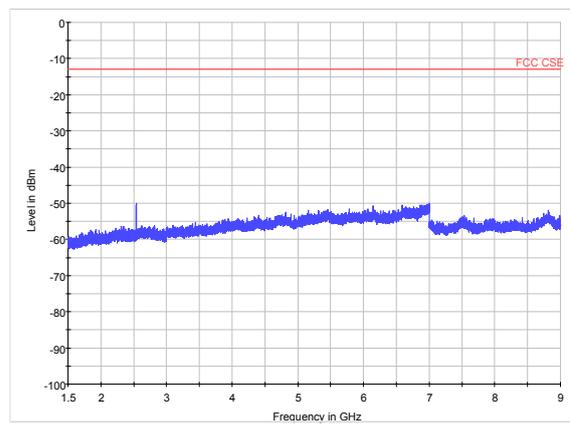
LTE Band 5 3MHz CH-Middle 1.5GHz~9GHz



LTE Band 5 3MHz CH-High 30MHz~1.5GHz

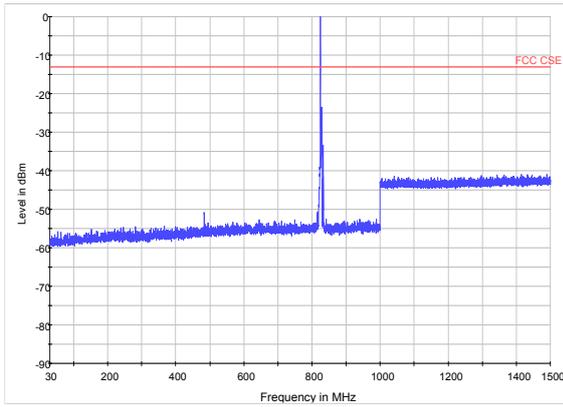


LTE Band 5 3MHz CH-High 1.5GHz~9GHz

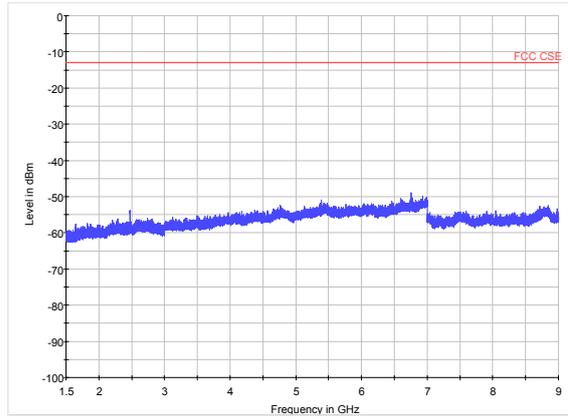




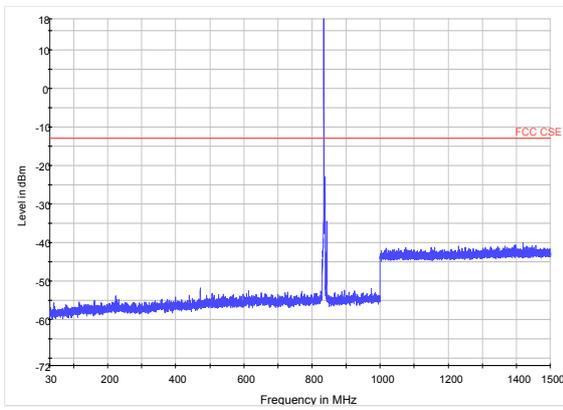
LTE Band 5 5MHz CH-Low 30MHz~1.5GHz



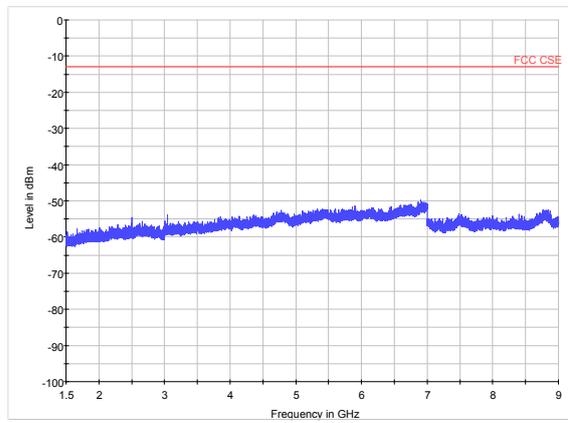
LTE Band 5 5MHz CH-Low 1.5GHz~9GHz



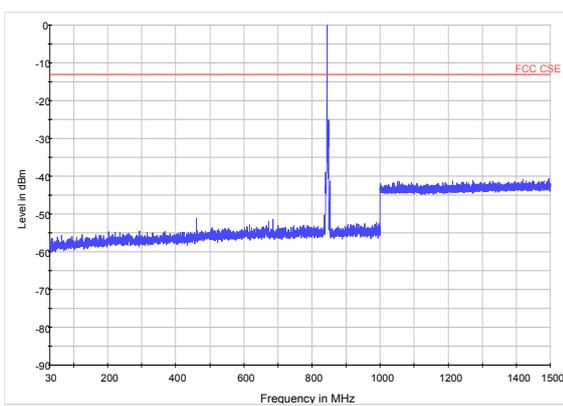
LTE Band 5 5MHz CH-Middle 30MHz~1.5GHz



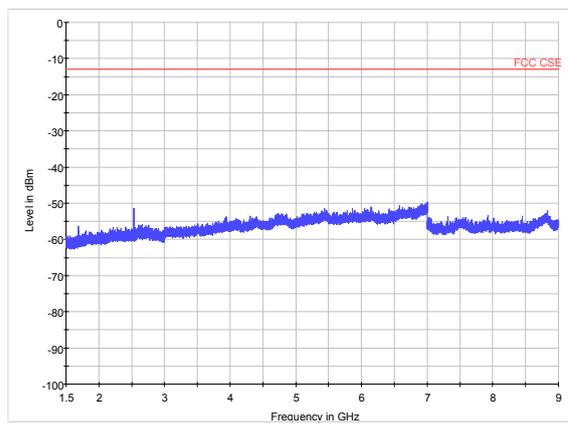
LTE Band 5 5MHz CH-Middle 1.5GHz~9GHz



LTE Band 5 5MHz CH-High 30MHz~1.5GHz

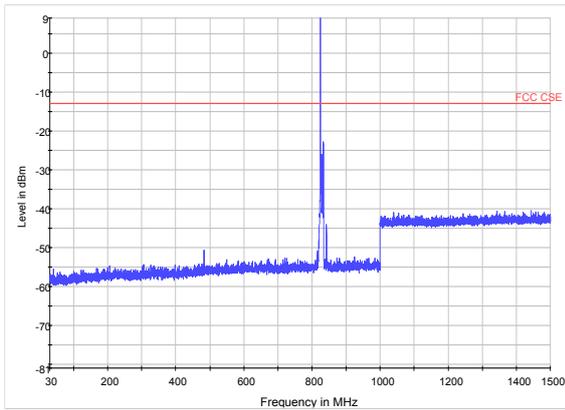


LTE Band 5 5MHz CH-High 1.5GHz~9GHz

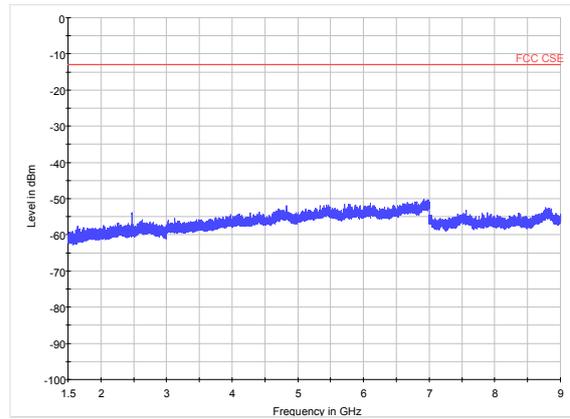




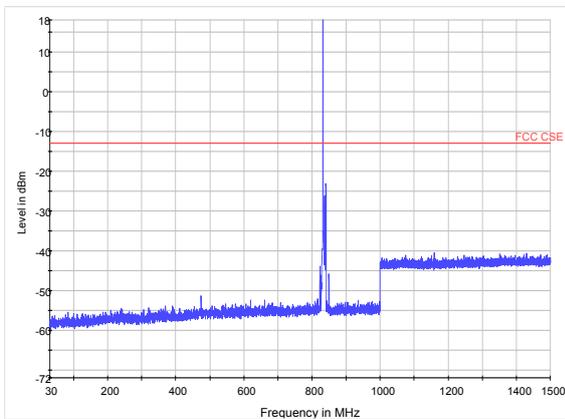
LTE Band 5 10MHz CH-Low 30MHz~1.5GHz



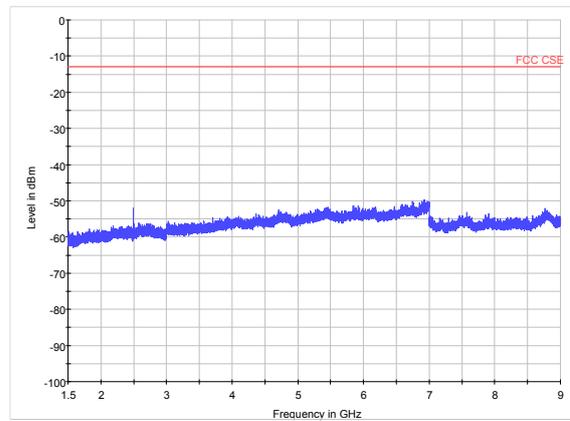
LTE Band 5 10MHz CH-Low 1.5GHz~9GHz



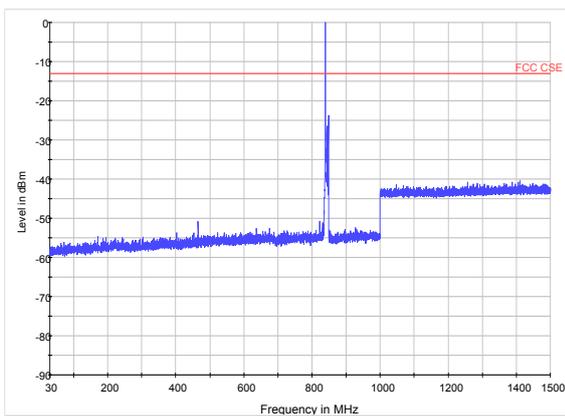
LTE Band 5 10MHz CH-Middle 30MHz~1.5GHz



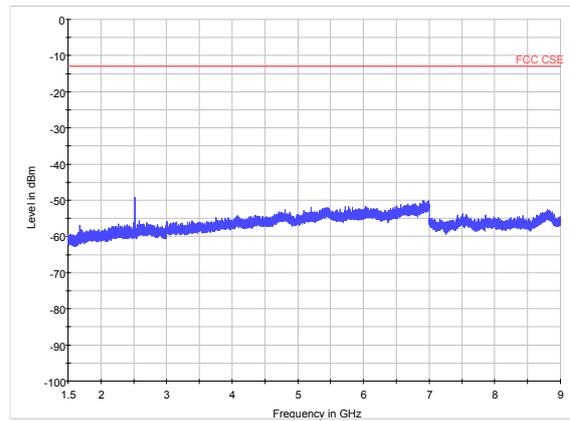
LTE Band 5 10MHz CH-Middle 1.5GHz~9GHz



LTE Band 5 10MHz CH-High 30MHz~1.5GHz

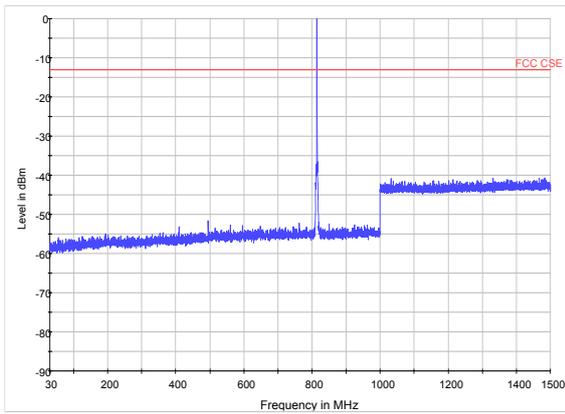


LTE Band 5 10MHz CH-High 1.5GHz~9GHz

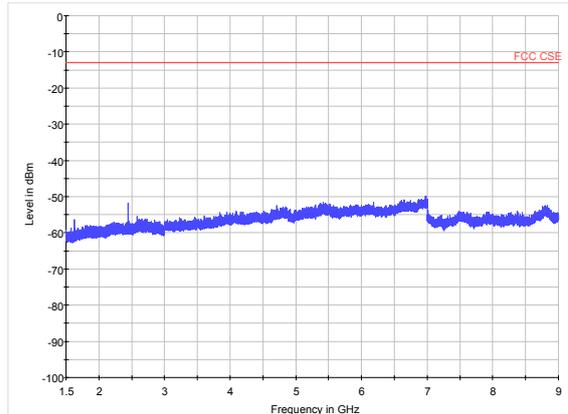




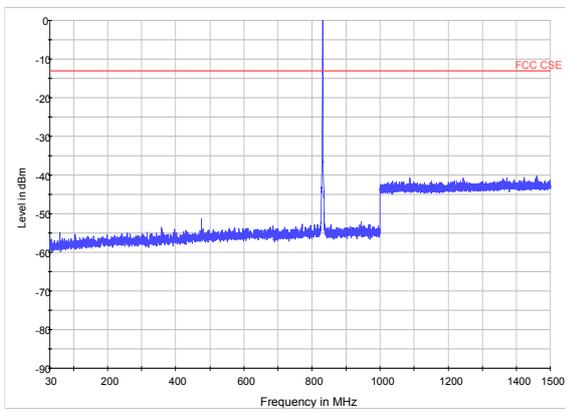
LTE Band 26 1.4MHz CH-Low 30MHz~1.5GHz



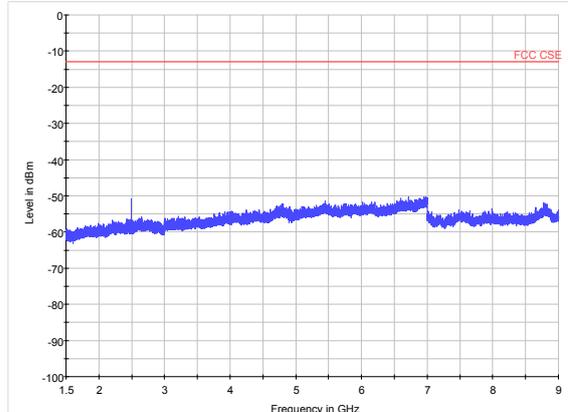
LTE Band 26 1.4MHz CH-Low 1.5GHz~9GHz



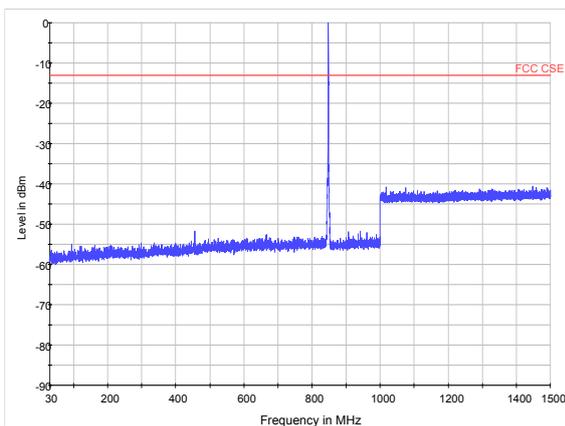
LTE Band 26 1.4MHz CH-Middle 30MHz~1.5GHz



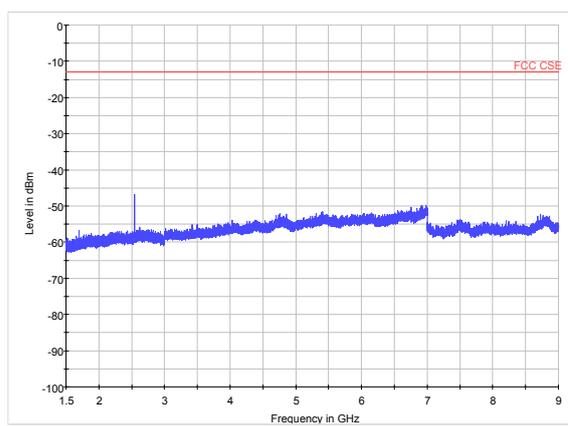
LTE Band 26 1.4MHz CH-Middle 1.5GHz~9GHz



LTE Band 26 1.4MHz CH-High 30MHz~1.5GHz

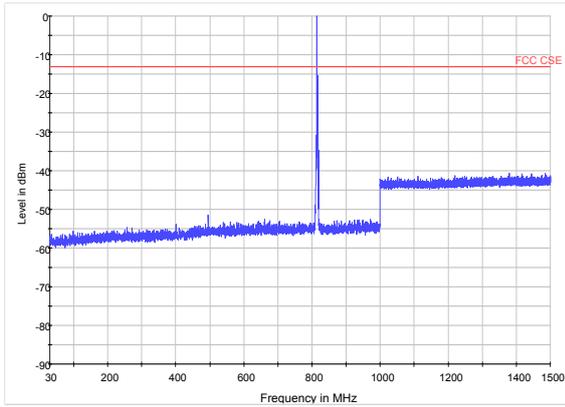


LTE Band 26 1.4MHz CH-High 1.5GHz~9GHz

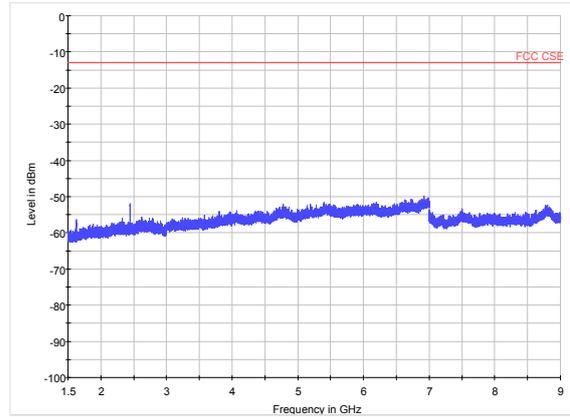




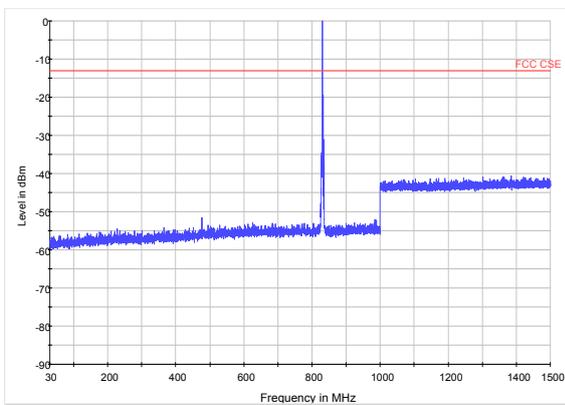
LTE Band 26 3MHz CH-Low 30MHz~1.5GHz



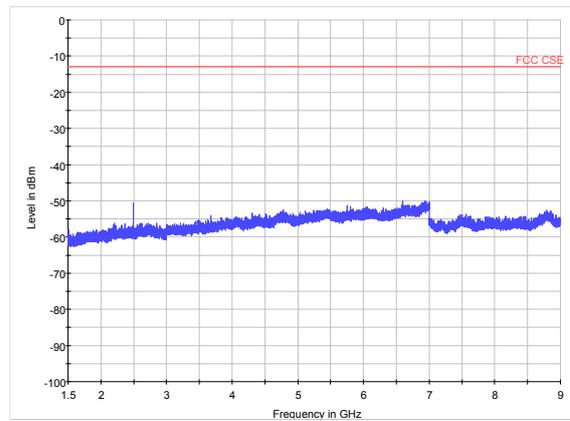
LTE Band 26 3MHz CH-Low 1.5GHz~9GHz



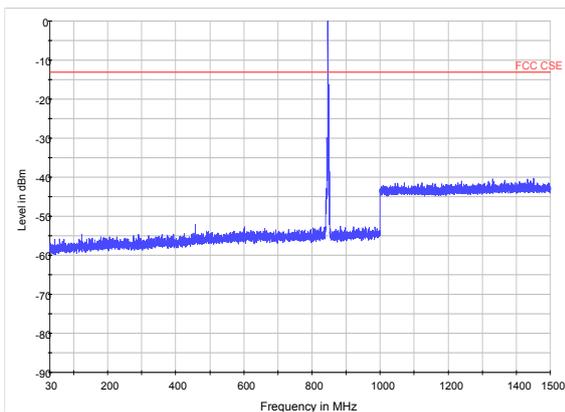
LTE Band 26 3MHz CH-Middle 30MHz~1.5GHz



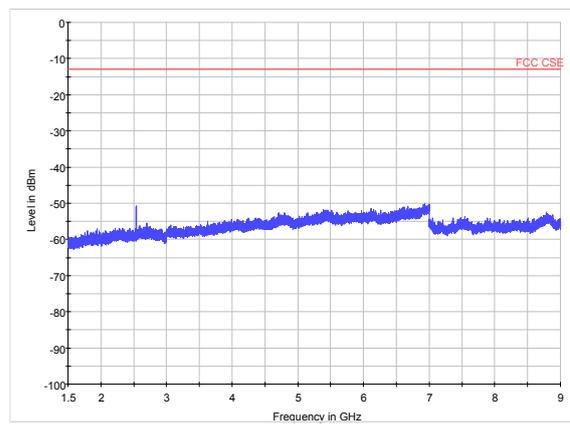
LTE Band 26 3MHz CH-Middle 1.5GHz~9GHz



LTE Band 26 3MHz CH-High 30MHz~1.5GHz

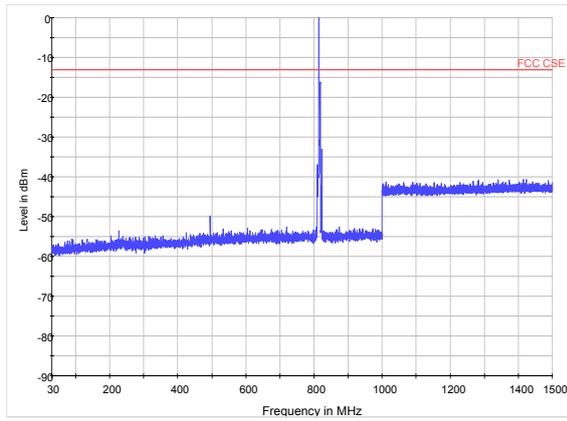


LTE Band 26 3MHz CH-High 1.5GHz~9GHz

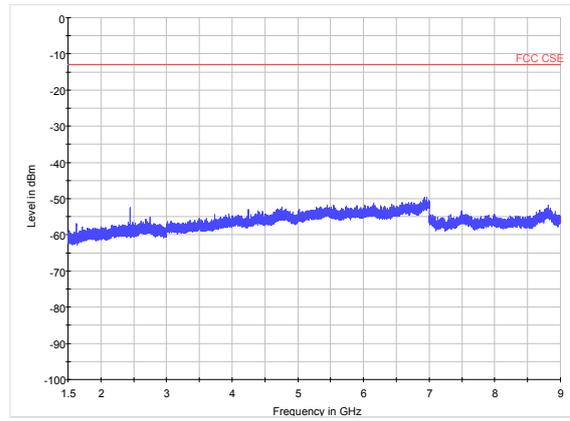




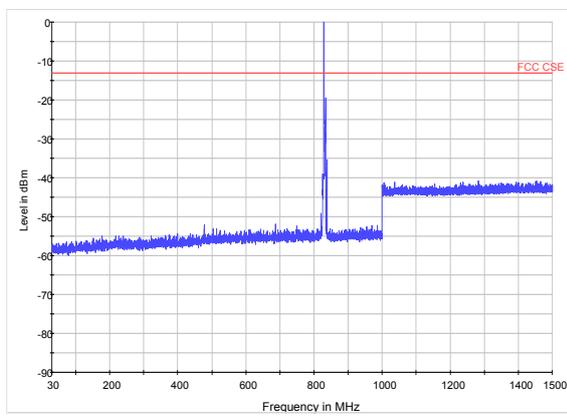
LTE Band 26 5MHz CH-Low 30MHz~1.5GHz



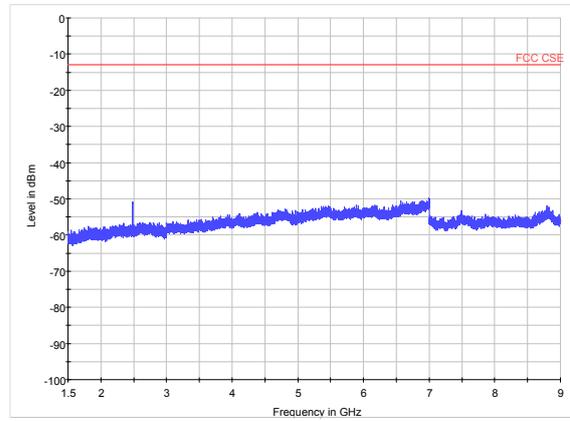
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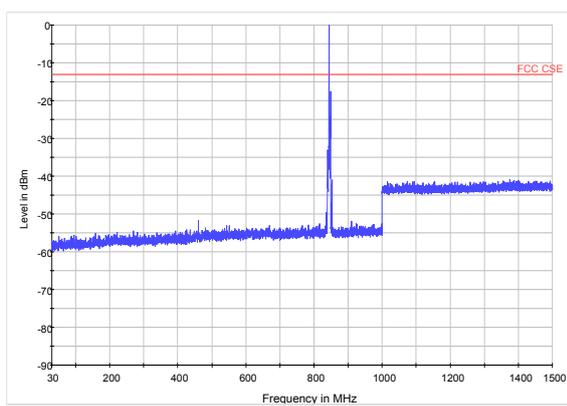
LTE Band 26 5MHz CH-Middle 30MHz~1.5GHz



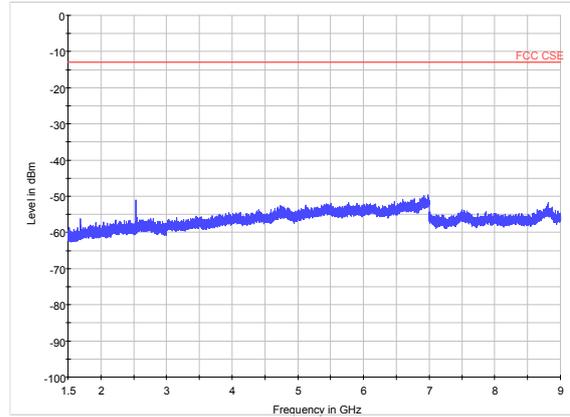
LTE Band 26 5MHz CH-Middle 1.5GHz~9GHz



LTE Band 26 5MHz CH-High 30MHz~1.5GHz

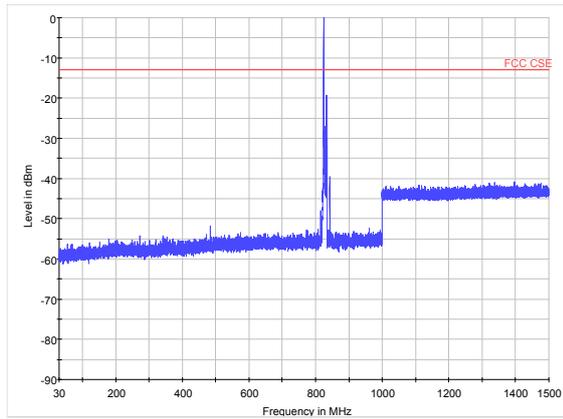


LTE Band 26 5MHz CH-High 1.5GHz~9GHz

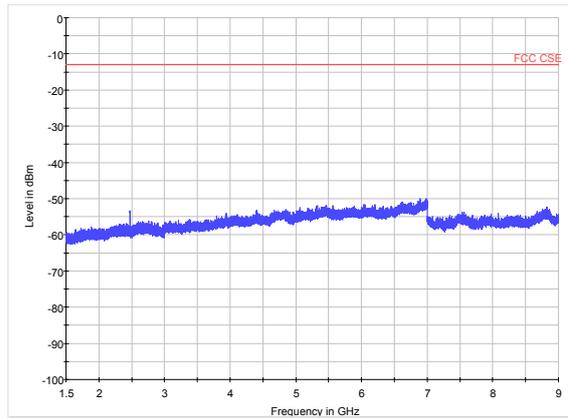




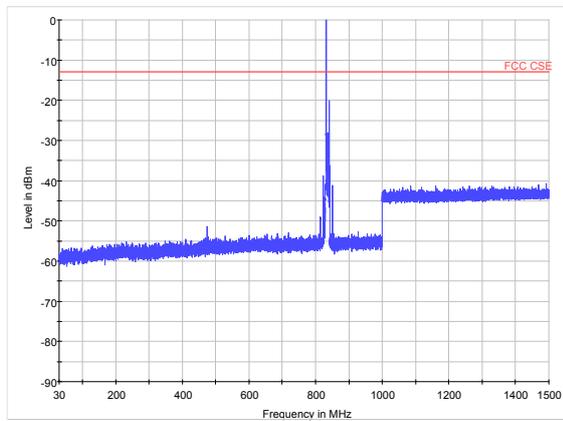
LTE Band 26 10MHz CH-Low 30MHz~1.5GHz



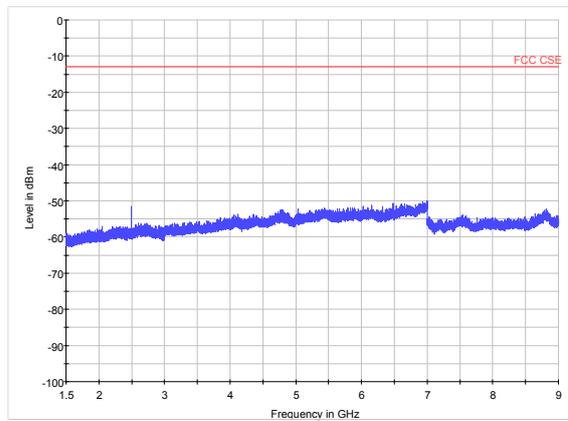
LTE Band 26 10MHz CH-Low 1.5GHz~9GHz



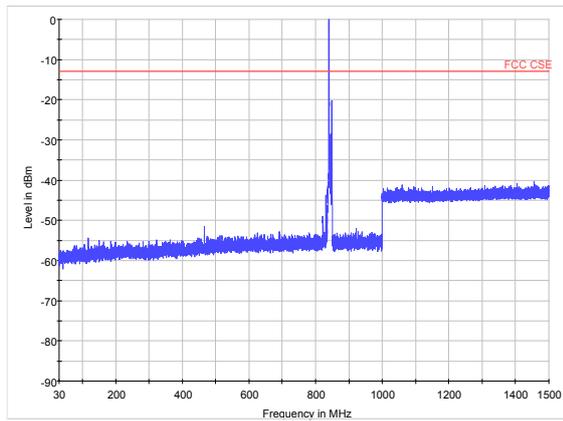
LTE Band 26 10MHz CH-Middle 30MHz~1.5GHz



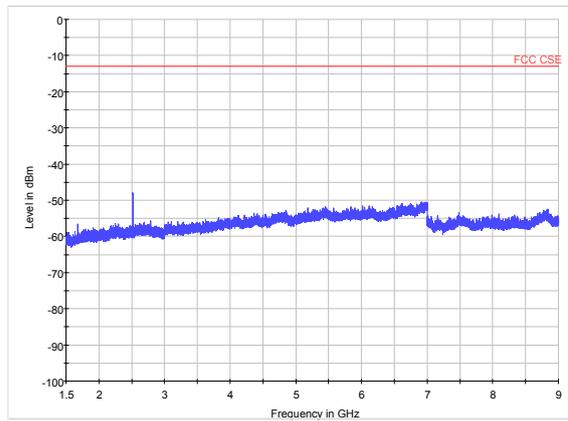
LTE Band 26 10MHz CH-Middle 1.5GHz~9GHz



LTE Band 26 10MHz CH-High 30MHz~1.5GHz

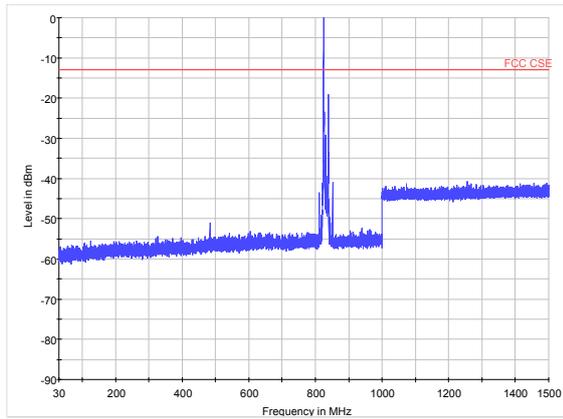


LTE Band 26 10MHz CH-High 1.5GHz~9GHz

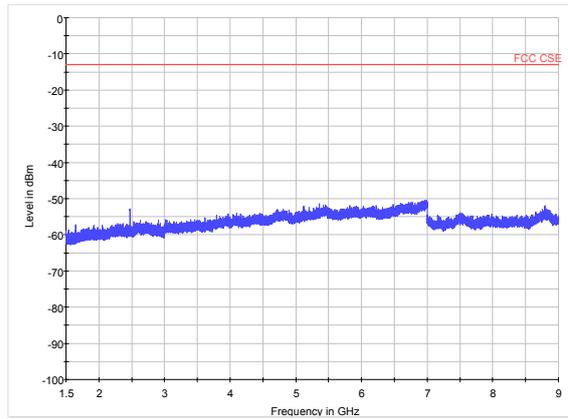




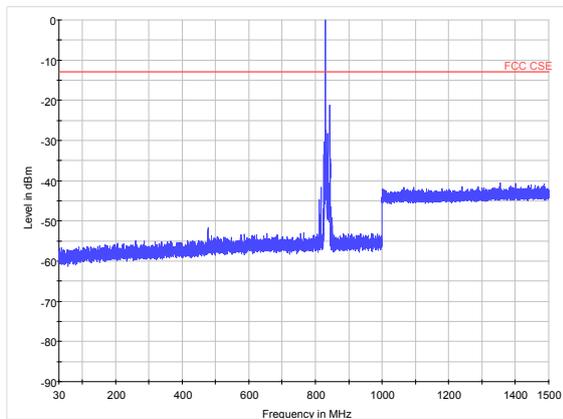
LTE Band 26 15MHz CH-Low 30MHz~1.5GHz



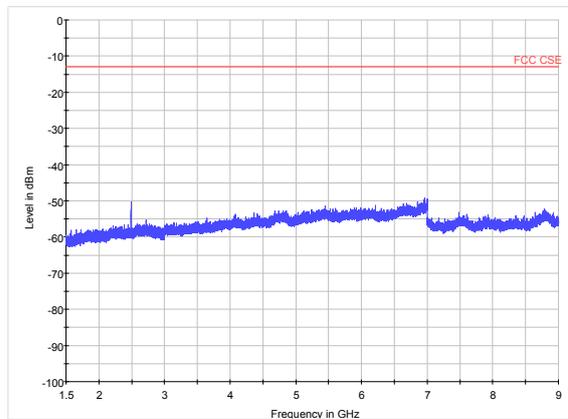
LTE Band 26 15MHz CH-Low 1.5GHz~9GHz



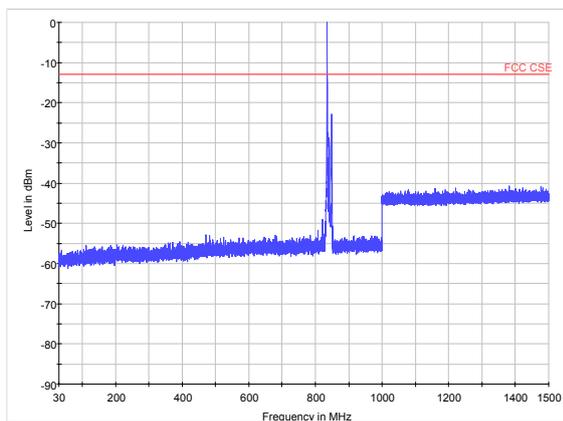
LTE Band 26 15MHz CH-Middle 30MHz~1.5GHz



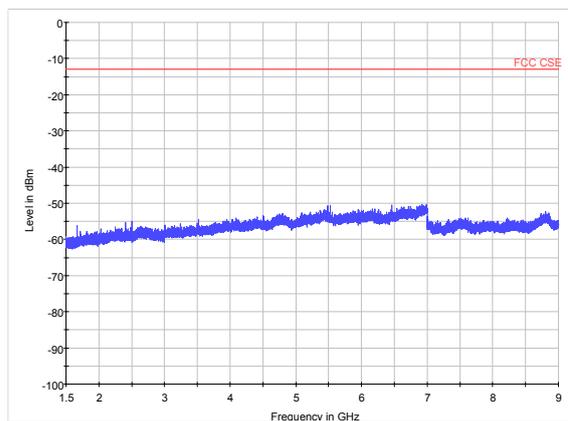
LTE Band 26 15MHz CH-Middle 1.5GHz~9GHz



LTE Band 26 15MHz CH-High 30MHz~1.5GHz



LTE Band 26 15MHz CH-High 1.5GHz~9GHz



5.7. Radiates Spurious Emission

Ambient condition

Temperature	Relative humidity
21°C ~25°C	40%~60%

Method of Measurement

The measurements procedures in TIA -603-D are used.

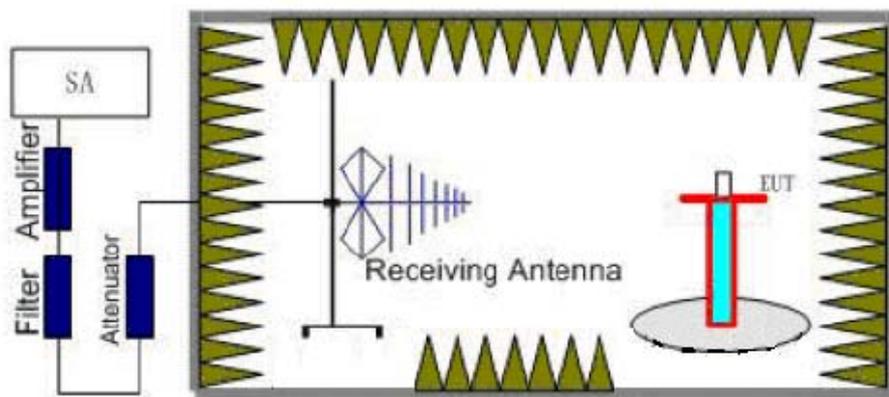
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment.

The emissions less than 20 dB below the permissible value are reported.

The procedure of Radiates Spurious Emission is as follows:

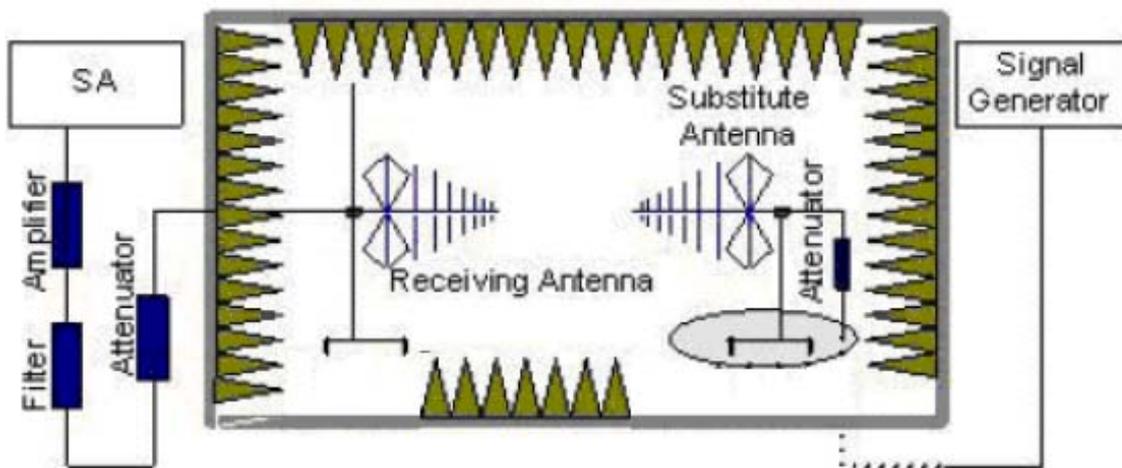
Step 1:

The measurement is carried out in the semi-anechoic chamber. EUT was placed on a 1.5 meters high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used while RBW and VBW are both set to 100kHz. During the measurement, the highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna moved up and down over a range from 1 to 4 meters in both horizontally and vertically polarized orientations. The test setup refers to figure below.



Step 2:

A dipole antenna shall be substituted in place of the EUT. The antenna will be driven by a signal generator with a adjustable S.G. applied through a Tx cable. Adjust the level of the signal generator output until the value of the receiver reach the previously recorded analyzer power level (LVL). Then The E.R.P. /E.I.R.P. of the EUT can be calculated through the level of the signal generator, Tx cable loss and the gain of the substitution antenna. The test setup refers to figure below.



$$\text{E.R.P (peak power)} = \text{S.G.} - \text{Tx Cable loss} + \text{Substitution antenna gain} - 2.15.$$

$$\text{EIRP} = \text{E.R.P} + 2.15$$

Limits

Rule Part 22.917(a) specifies that “The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.”

Limit	-13 dBm
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Measurement Uncertainty

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

Test Result

Receiver antenna polarization (horizontal and vertical), the worst emission was found in vertical polarization, and the worst case in vertical polarization was recorded.

GSM 850 CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1647	-47.30	2	10.15	Vertical	-41.3	-13.00	28.30	225
3	2472	-36.79	2.51	11.35	Vertical	-30.1	-13.00	17.10	135
4	3297	-55.50	4.2	10.85	Vertical	-51.0	-13.00	38.00	90
5	4121	-52.90	5.2	11.35	Vertical	-48.9	-13.00	35.90	225
6	4945	-50.90	5.5	11.95	Vertical	-46.6	-13.00	33.60	90
7	5769	-49.70	5.7	13.55	Vertical	-44.0	-13.00	31.00	135
8	6594	-47.80	6.3	13.75	Vertical	-42.5	-13.00	29.50	225
9	7418	-46.90	6.8	13.85	Vertical	-42.0	-13.00	29.00	225
10	8242	-46.40	6.9	14.25	Vertical	-41.2	-13.00	28.20	90

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

GSM 850 CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1674	-46.90	2	10.75	Vertical	-40.3	-13.00	27.30	225
3	2509	-37.89	2.51	11.05	Vertical	-31.5	-13.00	18.50	135
4	3345	-55.70	4.2	11.15	Vertical	-50.9	-13.00	37.90	45
5	4182	-52.50	5.2	11.15	Vertical	-48.7	-13.00	35.70	225
6	5018	-51.00	5.5	11.95	Vertical	-46.7	-13.00	33.70	90
7	5854	-51.90	5.7	13.55	Vertical	-46.2	-13.00	33.20	45
8	6690	-48.70	6.3	13.75	Vertical	-43.4	-13.00	30.40	135
9	7528	-47.00	6.8	13.85	Vertical	-42.1	-13.00	29.10	225
10	8363	-47.40	6.9	14.25	Vertical	-42.2	-13.00	29.20	135

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



GSM 850 CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1698	-44.30	2	10.15	Vertical	-38.3	-13.00	25.30	0
3	2547	-40.89	2.51	11.05	Vertical	-34.5	-13.00	21.50	45
4	3395	-56.20	4.2	11.15	Vertical	-51.4	-13.00	38.40	225
5	4244	-52.20	5.2	11.15	Vertical	-48.4	-13.00	35.40	135
6	5093	-50.80	5.5	11.95	Vertical	-46.5	-13.00	33.50	0
7	5942	-52.10	5.7	13.55	Vertical	-46.4	-13.00	33.40	45
8	6790	-48.70	6.3	13.75	Vertical	-43.4	-13.00	30.40	90
9	7639	-48.20	6.8	13.85	Vertical	-43.3	-13.00	30.30	225
10	8488	-47.70	6.9	14.25	Vertical	-42.5	-13.00	29.50	90

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

WCDMA Band V CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1653	-55.20	2	10.15	Vertical	-49.2	-13.00	36.20	315
3	2479	-46.59	2.51	11.35	Vertical	-39.9	-13.00	26.90	270
4	3306	-58.90	4.2	10.85	Vertical	-54.4	-13.00	41.40	135
5	4132	-56.10	5.2	11.35	Vertical	-52.1	-13.00	39.10	90
6	5097	-49.10	5.5	11.95	Vertical	-44.8	-13.00	31.80	270
7	5785	-53.70	5.7	13.55	Vertical	-48.0	-13.00	35.00	45
8	6611	-51.00	6.3	13.75	Vertical	-45.7	-13.00	32.70	0
9	7438	-50.00	6.8	13.85	Vertical	-45.1	-13.00	32.10	180
10	8264	-50.70	6.9	14.25	Vertical	-45.5	-13.00	32.50	225

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

WCDMA Band V CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673	-57.70	2	10.75	Vertical	-51.1	-13.00	38.10	0
3	2510	-50.59	2.51	11.05	Vertical	-44.2	-13.00	31.20	180
4	3346	-59.60	4.2	11.15	Vertical	-54.8	-13.00	41.80	270
5	4183	-55.30	5.2	11.15	Vertical	-51.5	-13.00	38.50	225
6	5020	-54.10	5.5	11.95	Vertical	-49.8	-13.00	36.80	180
7	5856	-52.70	5.7	13.55	Vertical	-47.0	-13.00	34.00	45
8	6693	-51.70	6.3	13.75	Vertical	-46.4	-13.00	33.40	90
9	7529	-49.90	6.8	13.85	Vertical	-45.0	-13.00	32.00	315
10	8366	-50.30	6.9	14.25	Vertical	-45.1	-13.00	32.10	270

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

WCDMA Band V CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1693	-58.80	2	10.15	Vertical	-52.8	-13.00	39.80	225
3	2540	-50.29	2.51	11.05	Vertical	-43.9	-13.00	30.90	90
4	3386	-59.10	4.2	11.15	Vertical	-54.3	-13.00	41.30	270
5	4233	-56.20	5.2	11.15	Vertical	-52.4	-13.00	39.40	45
6	5080	-53.20	5.5	11.95	Vertical	-48.9	-13.00	35.90	0
7	5926	-53.80	5.7	13.55	Vertical	-48.1	-13.00	35.10	180
8	6773	-52.10	6.3	13.75	Vertical	-46.8	-13.00	33.80	225
9	7619	-50.20	6.8	13.85	Vertical	-45.3	-13.00	32.30	270
10	8466	-50.80	6.9	14.25	Vertical	-45.6	-13.00	32.60	225

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

LTE Band 5 1.4MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1648.5	-60.00	2.00	10.75	vertical	-53.4	-13.00	40.40	90
3	2473	-55.09	2.51	11.05	vertical	-48.7	-13.00	35.70	135
4	3298.8	-54.50	4.20	11.15	vertical	-49.7	-13.00	36.70	135
5	4123.5	-52.10	5.20	11.15	vertical	-48.3	-13.00	35.30	270
6	4948.2	-50.30	5.50	11.95	vertical	-46.0	-13.00	33.00	225
7	5772.9	-51.00	5.70	13.55	vertical	-45.3	-13.00	32.30	135
8	6597.6	-48.10	6.30	13.75	vertical	-42.8	-13.00	29.80	225
9	7422.3	-47.10	6.80	13.85	vertical	-42.2	-13.00	29.20	135
10	8247.0	-48.80	6.90	14.25	vertical	-43.6	-13.00	30.60	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 5 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1673.0	-62.60	2.00	10.75	vertical	-56.0	-13.00	43.00	270
3	2508.4	-57.79	2.51	11.05	vertical	-51.4	-13.00	38.40	225
4	3346.0	-55.40	4.20	11.15	vertical	-50.6	-13.00	37.60	45
5	4182.5	-52.70	5.20	11.15	vertical	-48.9	-13.00	35.90	90
6	5019.0	-50.90	5.50	11.95	vertical	-46.6	-13.00	33.60	225
7	5855.5	-52.70	5.70	13.55	vertical	-47.0	-13.00	34.00	90
8	6692.0	-49.30	6.30	13.75	vertical	-44.0	-13.00	31.00	135
9	7528.5	-47.40	6.80	13.85	vertical	-42.5	-13.00	29.50	225
10	8365.0	-48.70	6.90	14.25	vertical	-43.5	-13.00	30.50	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 5 1.4MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1679.6	-60.00	2.00	10.75	vertical	-53.4	-13.00	40.40	225
3	2518.9	-53.89	2.51	11.05	vertical	-47.5	-13.00	34.50	45
4	3393.2	-56.10	4.20	11.15	vertical	-51.3	-13.00	38.30	90
5	4241.5	-52.60	5.20	11.15	vertical	-48.8	-13.00	35.80	45
6	5089.8	-49.70	5.50	11.95	vertical	-45.4	-13.00	32.40	135
7	5938.1	-51.70	5.70	13.55	vertical	-46.0	-13.00	33.00	0
8	6786.4	-49.10	6.30	13.75	vertical	-43.8	-13.00	30.80	90
9	7634.7	-48.50	6.80	13.85	vertical	-43.6	-13.00	30.60	135
10	8483.0	-47.70	6.90	14.25	vertical	-42.5	-13.00	29.50	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 5 3MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1648.5	-60.70	2.00	10.75	vertical	-54.1	-13.00	41.10	135
3	2472.8	-53.89	2.51	11.05	vertical	-47.5	-13.00	34.50	0
4	3302.0	-54.40	4.20	11.15	vertical	-49.6	-13.00	36.60	225
5	4127.5	-52.20	5.20	11.15	vertical	-48.4	-13.00	35.40	135
6	4953.0	-51.20	5.50	11.95	vertical	-46.9	-13.00	33.90	225
7	5778.5	-52.00	5.70	13.55	vertical	-46.3	-13.00	33.30	135
8	6604.0	-49.70	6.30	13.75	vertical	-44.4	-13.00	31.40	0
9	7429.5	-47.00	6.80	13.85	vertical	-42.1	-13.00	29.10	45
10	8255.0	-47.90	6.90	14.25	vertical	-42.7	-13.00	29.70	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 5 3MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1670.3	-61.10	2.00	10.75	vertical	-54.5	-13.00	41.50	45
3	2505.9	-54.89	2.51	11.05	vertical	-48.5	-13.00	35.50	90
4	3346.0	-53.30	4.20	11.15	vertical	-48.5	-13.00	35.50	225
5	4182.5	-51.30	5.20	11.15	vertical	-47.5	-13.00	34.50	90
6	5019.0	-51.10	5.50	11.95	vertical	-46.8	-13.00	33.80	135
7	5855.5	-51.00	5.70	13.55	vertical	-45.3	-13.00	32.30	225
8	6692.0	-48.90	6.30	13.75	vertical	-43.6	-13.00	30.60	225
9	7528.5	-46.10	6.80	13.85	vertical	-41.2	-13.00	28.20	90
10	8365.0	-46.80	6.90	14.25	vertical	-41.6	-13.00	28.60	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 5 3MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1692.4	-60.40	2.00	10.75	vertical	-53.8	-13.00	40.80	225
3	2538.6	-56.59	2.51	11.05	vertical	-50.2	-13.00	37.20	90
4	3390.0	-56.10	4.20	11.15	vertical	-51.3	-13.00	38.30	135
5	4237.5	-60.40	5.20	11.15	vertical	-56.6	-13.00	43.60	0
6	5085.0	-51.20	5.50	11.95	vertical	-46.9	-13.00	33.90	90
7	5932.5	-50.70	5.70	13.55	vertical	-45.0	-13.00	32.00	135
8	6780.0	-48.30	6.30	13.75	vertical	-43.0	-13.00	30.00	270
9	7627.5	-47.50	6.80	13.85	vertical	-42.6	-13.00	29.60	225
10	8475.0	-47.60	6.90	14.25	vertical	-42.4	-13.00	29.40	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 5 5MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1743.0	-63.10	2.00	10.75	vertical	-56.5	-13.00	43.50	135
3	2472.9	-50.49	2.51	11.05	vertical	-44.1	-13.00	31.10	225
4	3306.0	-55.40	4.20	11.15	vertical	-50.6	-13.00	37.60	225
5	4132.5	-52.40	5.20	11.15	vertical	-48.6	-13.00	35.60	135
6	4959.0	-50.00	5.50	11.95	vertical	-45.7	-13.00	32.70	0
7	5785.5	-53.30	5.70	13.55	vertical	-47.6	-13.00	34.60	45
8	6612.0	-50.70	6.30	13.75	vertical	-45.4	-13.00	32.40	90
9	7438.5	-48.60	6.80	13.85	vertical	-43.7	-13.00	30.70	225
10	8265.0	-47.00	6.90	14.25	vertical	-41.8	-13.00	28.80	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 5 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1887.6	-57.40	2.00	10.75	vertical	-50.8	-13.00	37.80	225
3	2503.1	-52.49	2.51	11.05	vertical	-46.1	-13.00	33.10	90
4	3346.0	-54.90	4.20	11.15	vertical	-50.1	-13.00	37.10	135
5	4182.5	-52.70	5.20	11.15	vertical	-48.9	-13.00	35.90	225
6	5019.0	-51.40	5.50	11.95	vertical	-47.1	-13.00	34.10	225
7	5855.5	-52.30	5.70	13.55	vertical	-46.6	-13.00	33.60	90
8	6692.0	-49.00	6.30	13.75	vertical	-43.7	-13.00	30.70	45
9	7528.5	-47.10	6.80	13.85	vertical	-42.2	-13.00	29.20	135
10	8365.0	-47.70	6.90	14.25	vertical	-42.5	-13.00	29.50	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 5 5MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1783.0	-62.40	2.00	10.75	vertical	-55.8	-13.00	42.80	45
3	2532.9	-57.19	2.51	11.05	vertical	-50.8	-13.00	37.80	135
4	3386.0	-54.20	4.20	11.15	vertical	-49.4	-13.00	36.40	90
5	4232.5	-52.10	5.20	11.15	vertical	-48.3	-13.00	35.30	135
6	5079.0	-50.90	5.50	11.95	vertical	-46.6	-13.00	33.60	270
7	5925.5	-50.00	5.70	13.55	vertical	-44.3	-13.00	31.30	225
8	6772.0	-48.60	6.30	13.75	vertical	-43.3	-13.00	30.30	135
9	7618.5	-46.80	6.80	13.85	vertical	-41.9	-13.00	28.90	225
10	8465.0	-47.90	6.90	14.25	vertical	-42.7	-13.00	29.70	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 5 10MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1649.6	-60.30	2.00	10.75	vertical	-53.7	-13.00	40.70	0
3	2474.1	-53.39	2.51	11.05	vertical	-47.0	-13.00	34.00	90
4	3316.0	-55.80	4.20	11.15	vertical	-51.0	-13.00	38.00	0
5	4145.0	-53.00	5.20	11.15	vertical	-49.2	-13.00	36.20	45
6	4974.0	-50.50	5.50	11.95	vertical	-46.2	-13.00	33.20	90
7	5803.0	-51.40	5.70	13.55	vertical	-45.7	-13.00	32.70	225
8	6632.0	-49.60	6.30	13.75	vertical	-44.3	-13.00	31.30	90
9	7461.0	-47.90	6.80	13.85	vertical	-43.0	-13.00	30.00	135
10	8290.0	-47.10	6.90	14.25	vertical	-41.9	-13.00	28.90	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 5 10MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1663.6	-61.60	2.00	10.75	vertical	-55.0	-13.00	42.00	45
3	2496.2	-54.59	2.51	11.05	vertical	-48.2	-13.00	35.20	0
4	3346.0	-55.40	4.20	11.15	vertical	-50.6	-13.00	37.60	225
5	4182.5	-51.70	5.20	11.15	vertical	-47.9	-13.00	34.90	90
6	5019.0	-51.40	5.50	11.95	vertical	-47.1	-13.00	34.10	45
7	5855.5	-52.70	5.70	13.55	vertical	-47.0	-13.00	34.00	135
8	6692.0	-50.10	6.30	13.75	vertical	-44.8	-13.00	31.80	0
9	7528.5	-46.40	6.80	13.85	vertical	-41.5	-13.00	28.50	90
10	8365.0	-48.20	6.90	14.25	vertical	-43.0	-13.00	30.00	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 5 10MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1679.1	-60.00	2.00	10.75	vertical	-53.4	-13.00	40.40	225
3	2518.9	-53.89	2.51	11.05	vertical	-47.5	-13.00	34.50	45
4	3376.0	-55.10	4.20	11.15	vertical	-50.3	-13.00	37.30	270
5	4220.0	-52.70	5.20	11.15	vertical	-48.9	-13.00	35.90	225
6	5064.0	-50.40	5.50	11.95	vertical	-46.1	-13.00	33.10	135
7	5908.0	-51.70	5.70	13.55	vertical	-46.0	-13.00	33.00	225
8	6752.0	-50.20	6.30	13.75	vertical	-44.9	-13.00	31.90	135
9	7596.0	-48.40	6.80	13.85	vertical	-43.5	-13.00	30.50	0
10	8440.0	-48.50	6.90	14.25	vertical	-43.3	-13.00	30.30	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 26 1.4MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1648.1	-58.00	2.00	10.75	vertical	-51.4	-13.00	38.40	45
3	2472.6	-40.09	2.51	11.05	vertical	-33.7	-13.00	20.70	90
4	3258.80	-54.70	4.20	11.15	vertical	-49.9	-13.00	36.90	135
5	4073.50	-51.70	5.20	11.15	vertical	-47.9	-13.00	34.90	225
6	4888.20	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	225
7	5702.90	-51.10	5.70	13.55	vertical	-45.4	-13.00	32.40	90
8	6517.60	-49.60	6.30	13.75	vertical	-44.3	-13.00	31.30	45
9	7332.30	-48.20	6.80	13.85	vertical	-43.3	-13.00	30.30	135
10	8147.00	-47.60	6.90	14.25	vertical	-42.4	-13.00	29.40	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 26 1.4MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1671.9	-59.90	2.00	10.75	vertical	-53.3	-13.00	40.30	225
3	2508.0	-46.79	2.51	11.05	vertical	-40.4	-13.00	27.40	90
4	3326.00	-54.70	4.20	11.15	vertical	-49.9	-13.00	36.90	90
5	4157.50	-53.20	5.20	11.15	vertical	-49.4	-13.00	36.40	135
6	4989.00	-52.20	5.50	11.95	vertical	-47.9	-13.00	34.90	270
7	5820.50	-51.70	5.70	13.55	vertical	-46.0	-13.00	33.00	225
8	6652.00	-49.30	6.30	13.75	vertical	-44.0	-13.00	31.00	135
9	7483.50	-48.90	6.80	13.85	vertical	-44.0	-13.00	31.00	225
10	8315.00	-48.00	6.90	14.25	vertical	-42.8	-13.00	29.80	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 26 1.4MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1695.6	-59.00	2.00	10.75	vertical	-52.4	-13.00	39.40	135
3	2543.6	-42.39	2.51	11.05	vertical	-36.0	-13.00	23.00	225
4	3393.20	-54.10	4.20	11.15	vertical	-49.3	-13.00	36.30	0
5	4241.50	-52.10	5.20	11.15	vertical	-48.3	-13.00	35.30	45
6	5089.80	-50.30	5.50	11.95	vertical	-46.0	-13.00	33.00	90
7	5938.10	-51.10	5.70	13.55	vertical	-45.4	-13.00	32.40	225
8	6786.40	-48.60	6.30	13.75	vertical	-43.3	-13.00	30.30	90
9	7634.70	-48.20	6.80	13.85	vertical	-43.3	-13.00	30.30	135
10	8483.00	-47.50	6.90	14.25	vertical	-42.3	-13.00	29.30	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 26 3MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1648.3	-57.00	2.00	10.75	vertical	-50.4	-13.00	37.40	225
3	2472.8	-39.89	2.51	11.05	vertical	-33.5	-13.00	20.50	90
4	3262.00	-54.50	4.20	11.15	vertical	-49.7	-13.00	36.70	225
5	4077.50	-53.70	5.20	11.15	vertical	-49.9	-13.00	36.90	90
6	4893.00	-49.70	5.50	11.95	vertical	-45.4	-13.00	32.40	45
7	5708.50	-49.10	5.70	13.55	vertical	-43.4	-13.00	30.40	225
8	6524.00	-47.20	6.30	13.75	vertical	-41.9	-13.00	28.90	90
9	7339.50	-47.50	6.80	13.85	vertical	-42.6	-13.00	29.60	45
10	8155.00	-48.20	6.90	14.25	vertical	-43.0	-13.00	30.00	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 26 3MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1670.6	-60.50	2.00	10.75	vertical	-53.9	-13.00	40.90	45
3	2505.8	-46.89	2.51	11.05	vertical	-40.5	-13.00	27.50	225
4	3326.00	-55.00	4.20	11.15	vertical	-50.2	-13.00	37.20	0
5	4157.50	-53.70	5.20	11.15	vertical	-49.9	-13.00	36.90	90
6	4989.00	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	135
7	5820.50	-51.30	5.70	13.55	vertical	-45.6	-13.00	32.60	270
8	6652.00	-49.40	6.30	13.75	vertical	-44.1	-13.00	31.10	225
9	7483.50	-48.40	6.80	13.85	vertical	-43.5	-13.00	30.50	135
10	8315.00	-47.50	6.90	14.25	vertical	-42.3	-13.00	29.30	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 26 3MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1692.6	-56.40	2.00	10.75	vertical	-49.8	-13.00	36.80	90
3	2538.8	-42.29	2.51	11.05	vertical	-35.9	-13.00	22.90	45
4	3390.00	-53.60	4.20	11.15	vertical	-48.8	-13.00	35.80	135
5	4237.50	-51.70	5.20	11.15	vertical	-47.9	-13.00	34.90	0
6	5085.00	-50.20	5.50	11.95	vertical	-45.9	-13.00	32.90	45
7	5932.50	-51.70	5.70	13.55	vertical	-46.0	-13.00	33.00	90
8	6780.00	-49.00	6.30	13.75	vertical	-43.7	-13.00	30.70	225
9	7627.50	-48.20	6.80	13.85	vertical	-43.3	-13.00	30.30	90
10	8475.00	-47.40	6.90	14.25	vertical	-42.2	-13.00	29.20	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 26 5MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1648.7	-57.70	2.00	10.75	vertical	-51.1	-13.00	38.10	135
3	2473.1	-40.99	2.51	11.05	vertical	-34.6	-13.00	21.60	0
4	3266.00	-54.80	4.20	11.15	vertical	-50.0	-13.00	37.00	225
5	4082.50	-52.30	5.20	11.15	vertical	-48.5	-13.00	35.50	225
6	4899.00	-51.70	5.50	11.95	vertical	-47.4	-13.00	34.40	135
7	5715.50	-50.60	5.70	13.55	vertical	-44.9	-13.00	31.90	0
8	6532.00	-48.90	6.30	13.75	vertical	-43.6	-13.00	30.60	45
9	7348.50	-47.40	6.80	13.85	vertical	-42.5	-13.00	29.50	90
10	8165.00	-46.70	6.90	14.25	vertical	-41.5	-13.00	28.50	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 26 5MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1668.9	-59.80	2.00	10.75	vertical	-53.2	-13.00	40.20	90
3	2502.9	-47.89	2.51	11.05	vertical	-41.5	-13.00	28.50	135
4	3326.00	-54.80	4.20	11.15	vertical	-50.0	-13.00	37.00	90
5	4157.50	-51.60	5.20	11.15	vertical	-47.8	-13.00	34.80	135
6	4989.00	-51.50	5.50	11.95	vertical	-47.2	-13.00	34.20	225
7	5820.50	-50.60	5.70	13.55	vertical	-44.9	-13.00	31.90	90
8	6652.00	-48.90	6.30	13.75	vertical	-43.6	-13.00	30.60	225
9	7483.50	-48.50	6.80	13.85	vertical	-43.6	-13.00	30.60	135
10	8315.00	-46.80	6.90	14.25	vertical	-41.6	-13.00	28.60	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 26 5MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1688.6	-56.40	2.00	10.75	vertical	-49.8	-13.00	36.80	270
3	2533.1	-46.19	2.51	11.05	vertical	-39.8	-13.00	26.80	225
4	3386.00	-54.20	4.20	11.15	vertical	-49.4	-13.00	36.40	225
5	4232.50	-52.70	5.20	11.15	vertical	-48.9	-13.00	35.90	90
6	5079.00	-51.20	5.50	11.95	vertical	-46.9	-13.00	33.90	45
7	5925.50	-51.10	5.70	13.55	vertical	-45.4	-13.00	32.40	135
8	6772.00	-49.00	6.30	13.75	vertical	-43.7	-13.00	30.70	0
9	7618.50	-48.10	6.80	13.85	vertical	-43.2	-13.00	30.20	90
10	8465.00	-46.90	6.90	14.25	vertical	-41.7	-13.00	28.70	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 26 10MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1648.8	-57.70	2.00	10.75	vertical	-51.1	-13.00	38.10	135
3	2473.7	-40.29	2.51	11.05	vertical	-33.9	-13.00	20.90	225
4	3280.00	-55.00	4.20	11.15	vertical	-50.2	-13.00	37.20	270
5	4100.00	-52.70	5.20	11.15	vertical	-48.9	-13.00	35.90	225
6	4920.00	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	135
7	5740.00	-51.60	5.70	13.55	vertical	-45.9	-13.00	32.90	225
8	6560.00	-49.50	6.30	13.75	vertical	-44.2	-13.00	31.20	135
9	7380.00	-47.80	6.80	13.85	vertical	-42.9	-13.00	29.90	0
10	8200.00	-48.00	6.90	14.25	vertical	-42.8	-13.00	29.80	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 26 10MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1664.3	-54.80	2.00	10.75	vertical	-48.2	-13.00	35.20	135
3	2496.4	-43.29	2.51	11.05	vertical	-36.9	-13.00	23.90	0
4	3326.00	-55.40	4.20	11.15	vertical	-50.6	-13.00	37.60	90
5	4157.50	-52.30	5.20	11.15	vertical	-48.5	-13.00	35.50	225
6	4989.00	-52.50	5.50	11.95	vertical	-48.2	-13.00	35.20	90
7	5820.50	-51.70	5.70	13.55	vertical	-46.0	-13.00	33.00	135
8	6652.00	-49.30	6.30	13.75	vertical	-44.0	-13.00	31.00	225
9	7483.50	-48.10	6.80	13.85	vertical	-43.2	-13.00	30.20	225
10	8315.00	-47.50	6.90	14.25	vertical	-42.3	-13.00	29.30	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 26 10MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1679.1	-56.80	2.00	10.75	vertical	-50.2	-13.00	37.20	45
3	-2518.9	-46.19	2.51	11.05	vertical	-39.8	-13.00	26.80	90
4	3376.00	-56.10	4.20	11.15	vertical	-51.3	-13.00	38.30	45
5	4220.00	-52.90	5.20	11.15	vertical	-49.1	-13.00	36.10	225
6	5064.00	-50.60	5.50	11.95	vertical	-46.3	-13.00	33.30	90
7	5908.00	-50.90	5.70	13.55	vertical	-45.2	-13.00	32.20	45
8	6752.00	-49.40	6.30	13.75	vertical	-44.1	-13.00	31.10	135
9	7596.00	-47.50	6.80	13.85	vertical	-42.6	-13.00	29.60	0
10	8440.00	-47.70	6.90	14.25	vertical	-42.5	-13.00	29.50	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 26 15MHz CH-Low

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1649.6	-57.50	2.00	10.75	vertical	-50.9	-13.00	37.90	225
3	2474.6	-40.39	2.51	11.05	vertical	-34.0	-13.00	21.00	90
4	3290.00	-55.20	4.20	11.15	vertical	-50.4	-13.00	37.40	135
5	4112.50	-52.20	5.20	11.15	vertical	-48.4	-13.00	35.40	270
6	4935.00	-50.80	5.50	11.95	vertical	-46.5	-13.00	33.50	225
7	5757.50	-51.60	5.70	13.55	vertical	-45.9	-13.00	32.90	135
8	6580.00	-49.10	6.30	13.75	vertical	-43.8	-13.00	30.80	225
9	7402.50	-47.20	6.80	13.85	vertical	-42.3	-13.00	29.30	135
10	8225.00	-47.20	6.90	14.25	vertical	-42.0	-13.00	29.00	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 26 10MHz CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1659.6	-54.50	2.00	10.75	vertical	-47.9	-13.00	34.90	135
3	2489.4	-42.69	2.51	11.05	vertical	-36.3	-13.00	23.30	225
4	3326.00	-56.50	4.20	11.15	vertical	-51.7	-13.00	38.70	45
5	4157.50	-53.50	5.20	11.15	vertical	-49.7	-13.00	36.70	90
6	4989.00	-52.20	5.50	11.95	vertical	-47.9	-13.00	34.90	225
7	5820.50	-52.80	5.70	13.55	vertical	-47.1	-13.00	34.10	90
8	6652.00	-51.10	6.30	13.75	vertical	-45.8	-13.00	32.80	135
9	7483.50	-47.30	6.80	13.85	vertical	-42.4	-13.00	29.40	225
10	8315.00	-46.70	6.90	14.25	vertical	-41.5	-13.00	28.50	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 26 15MHz CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	1669.5	-59.30	2.00	10.75	vertical	-52.7	-13.00	39.70	90
3	2504.4	-47.89	2.51	11.05	vertical	-41.5	-13.00	28.50	225
4	3366.00	-54.70	4.20	11.15	vertical	-49.9	-13.00	36.90	90
5	4207.50	-52.90	5.20	11.15	vertical	-49.1	-13.00	36.10	45
6	5049.00	-50.90	5.50	11.95	vertical	-46.6	-13.00	33.60	225
7	5890.50	-50.10	5.70	13.55	vertical	-44.4	-13.00	31.40	90
8	6732.00	-48.10	6.30	13.75	vertical	-42.8	-13.00	29.80	45
9	7573.50	-47.70	6.80	13.85	vertical	-42.8	-13.00	29.80	135
10	8415.00	-47.20	6.90	14.25	vertical	-42.0	-13.00	29.00	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.

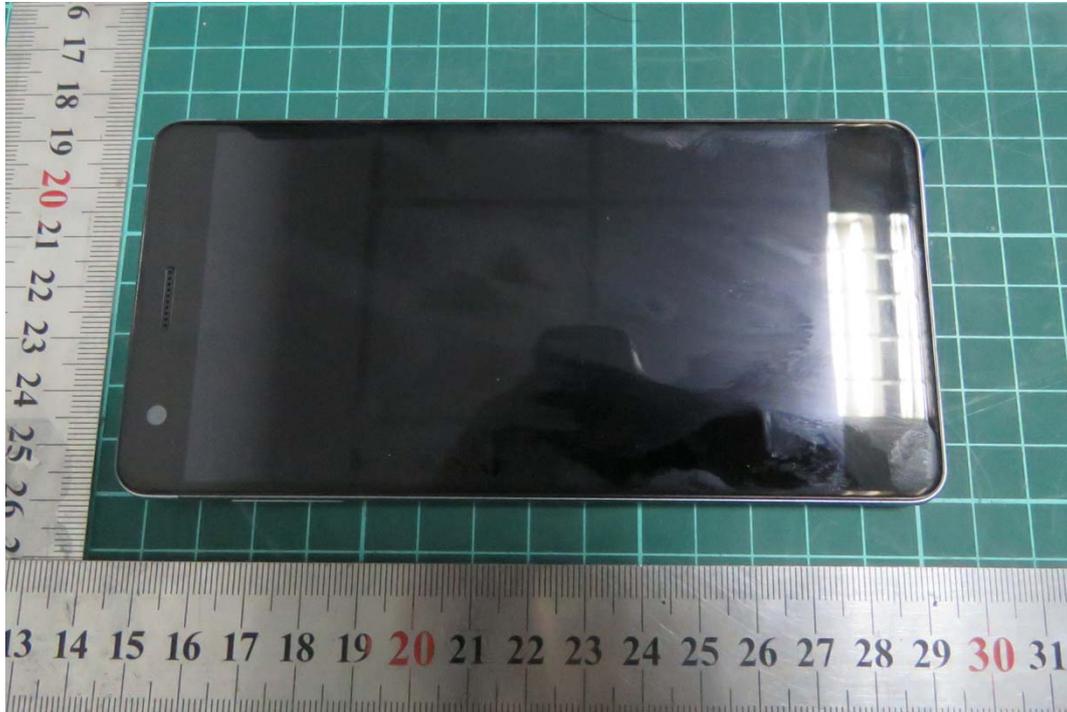
6. Main Test Instruments

Name	Type	Manufacturer	Serial Number	Calibration Date	Expiration Time
Base Station Simulator	CMW500	R&S	113645	2016-05-21	2017-05-20
Power Splitter	SHX-GF2-2-13	Hua Xiang	10120101	NA	NA
Spectrum Analyzer	N9010A	Agilent	MY47191109	2016-05-21	2017-05-20
Universal Radio Communication Tester	E5515C	Agilent	MY48367192	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
Climatic Chamber	PT-30B	Re Ce	20101891	2016-07-17	2017-07-16
RF Cable	SMA 15cm	Agilent	0001	2016-10-06	2017-01-05

*****END OF REPORT *****

ANNEX A: EUT Appearance and Test Setup

A.1 EUT Appearance



Front Side

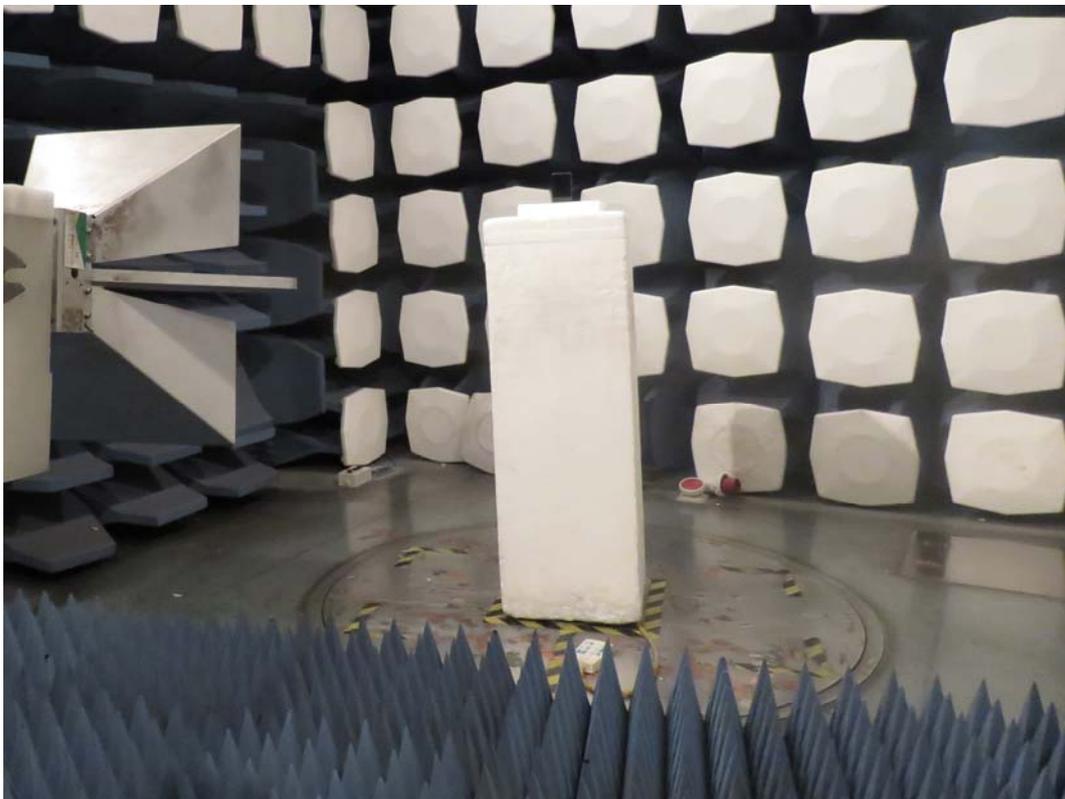
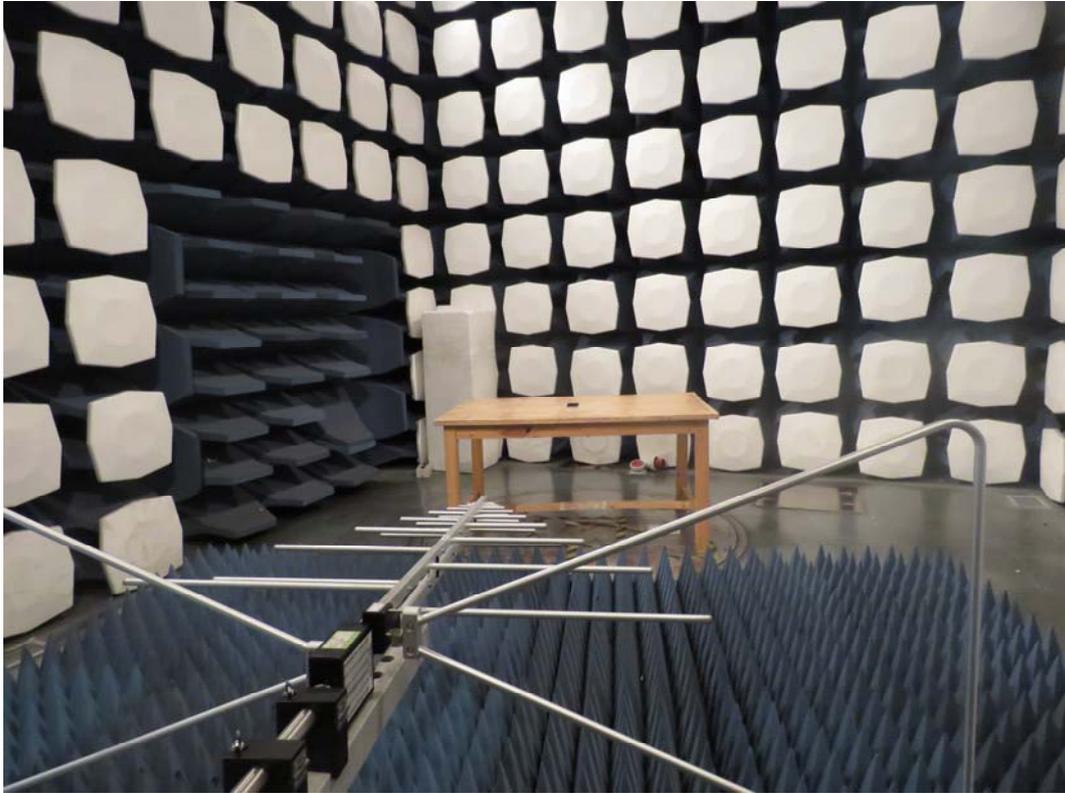


Back Side

a: EUT

Picture 1 EUT and Accessory

A.2 Test Setup



Picture 2: Radiated Spurious Emissions Test setup