

4.5 Peak-to-Average Power Ratio (PAPR)

Ambient condition

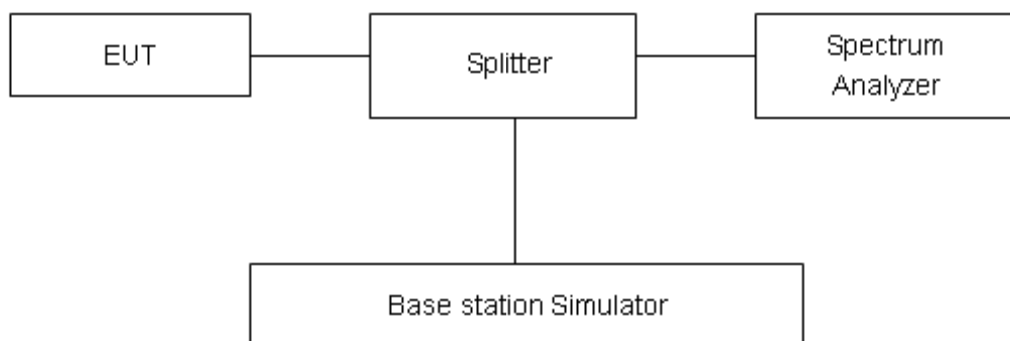
Temperature	Relative humidity
21°C ~25°C	40%~60%

Methods of Measurement

Measure the total peak power and record as PPk. And measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}.$$

Test Setup



Limits

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB in Part 27.50(a).

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 2$, $U = 0.4$ dB.



Test Results

WCDMA Band IV	Channel	Frequency (MHz)	Peak(dBm)	Avg(dBm)	PAPR(dB)	Conclusion
RMC	1312	1712.4	25.34	22.5	2.84	PASS
	1413	1732.6	25.42	22.45	2.97	PASS
	1513	1752.6	25.37	22.57	2.80	PASS

LTE Band 4							
Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Conclusion
QPSK	1.4	19957	1710.7	23.34	22.05	1.29	PASS
		20175	1732.5	23.07	21.91	1.16	PASS
		20393	1754.3	23.28	21.97	1.31	PASS
	3	19965	1711.5	23.29	21.97	1.32	PASS
		20175	1732.5	22.51	21.83	0.68	PASS
		20385	1753.5	22.81	21.90	0.91	PASS
	5	19975	1712.5	22.75	21.98	0.77	PASS
		20175	1732.5	22.34	21.85	0.49	PASS
		20375	1752.5	22.97	21.91	1.06	PASS
	10	20000	1715	23.16	22.00	1.16	PASS
		20175	1732.5	22.96	21.86	1.1	PASS
		20350	1750	22.11	21.93	0.18	PASS
	15	20025	1717.5	23.36	22.01	1.35	PASS
		20175	1732.5	23.04	21.88	1.16	PASS
		20325	1747.5	23.18	21.94	1.24	PASS
16QAM	1.4	20050	1720	23.30	22.03	1.27	PASS
		20175	1732.5	23.25	21.90	1.35	PASS
		20300	1745	23.18	21.96	1.22	PASS
	3	19957	1710.7	22.62	21.95	0.67	PASS
		20175	1732.5	22.90	21.76	1.14	PASS
		20393	1754.3	22.96	21.92	1.04	PASS
	5	19965	1711.5	23.04	21.87	1.17	PASS
		20175	1732.5	22.57	21.68	0.89	PASS
		20385	1753.5	22.66	21.84	0.82	PASS
	10	19975	1712.5	22.66	21.89	0.77	PASS
		20175	1732.5	22.83	21.70	1.13	PASS
		20375	1752.5	22.70	21.85	0.85	PASS
	15	20000	1715	22.79	21.90	0.89	PASS
		20175	1732.5	22.55	21.71	0.84	PASS
		20350	1750	22.70	21.87	0.83	PASS



	15	20025	1717.5	23.27	21.92	1.35	PASS
		20175	1732.5	22.98	21.73	1.25	PASS
		20325	1747.5	22.77	21.88	0.89	PASS
	20	20050	1720	22.39	21.94	0.45	PASS
		20175	1732.5	22.72	21.75	0.97	PASS
		20300	1745	22.85	21.91	0.94	PASS

LTE Band 7							
Modulation	Bandwidth ((MHz))	Channel	Frequency (MHz)	Peak (dBm)	Avg (dBm)	PAPR (dB)	Conclusion
QPSK	5	20775	2502.5	20.69	21.88	1.03	PASS
		21100	2535	20.75	21.84	0.77	PASS
		21425	2567.5	20.74	21.38	0.91	PASS
	10	20800	2505	21.31	21.89	1.22	PASS
		21100	2535	21.33	21.85	1.21	PASS
		21400	2565	21.21	21.40	0.99	PASS
	15	20825	2507.5	21.43	21.92	1.17	PASS
		21100	2535	21.43	21.88	1.36	PASS
		21375	2562.5	21.10	21.42	1.34	PASS
	20	20850	2510	21.55	21.94	1.24	PASS
		21100	2535	21.48	21.90	1.33	PASS
		21350	2560	21.21	21.44	1.19	PASS
16QAM	5	20775	2502.5	21.13	21.75	0.48	PASS
		21100	2535	20.91	21.79	0.73	PASS
		21425	2567.5	20.87	21.34	0.81	PASS
	10	20800	2505	21.37	21.77	1.07	PASS
		21100	2535	21.38	21.81	1.27	PASS
		21400	2565	20.98	21.36	1.25	PASS
	15	20825	2507.5	21.34	21.80	1.17	PASS
		21100	2535	21.55	21.83	1.35	PASS
		21375	2562.5	21.35	21.38	1.12	PASS
	20	20850	2510	21.42	21.82	1.28	PASS
		21100	2535	21.54	21.86	1.39	PASS
		21350	2560	21.22	21.40	1.21	PASS

4.6 Frequency Stability

Ambient condition

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

Method of Measurement

1. Frequency Stability (Temperature Variation)

The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size.

(1)With all power removed, the temperature was decreased to -10°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 +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

2. Frequency Stability (Voltage Variation)

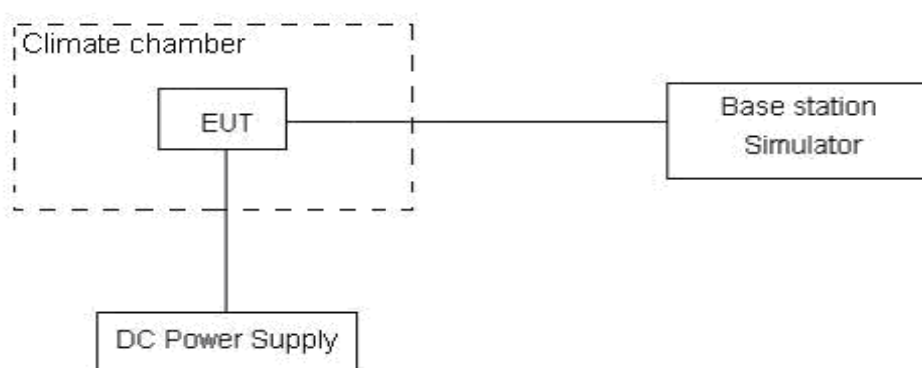
The frequency stability shall be measured with variation of primary supply voltage as follows:

(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 3.6 V and 4.35 V, with a nominal voltage of 3.8V.

Test setup



Limits

No specific frequency stability requirements in part 27.54

Measurement Uncertainty

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



Test Result

WCDMA Band IV

Test status	WCDMA Band IV Channel 1413 RMC	
	Test Results (ppm)	Conclusion
-30°C/3.8 V	-0.003727	PASS
-20°C/3.8 V	-0.002736	PASS
-10°C/3.8 V	-0.004083	PASS
0°C/3.8 V	-0.003218	PASS
10°C/3.8 V	-0.002353	PASS
20°C/3.8 V	-0.001488	PASS
30°C/3.8 V	-0.004081	PASS
40°C/3.8 V	-0.006674	PASS
50°C/3.8 V	-0.009267	PASS
20°C/4.35 V	-0.011860	PASS
20°C/3.6 V	-0.002716	PASS

Bandwidth	Test status	LTE Band 4 Channel 20175 Test Results (ppm)		
		QPSK	16QAM	Conclusion
1.4MHz	-30°C/3.8 V	-0.00197	0.00362	PASS
	-20°C/3.8 V	-0.00032	0.00666	PASS
	-10°C/3.8 V	-0.00405	0.004	PASS
	0°C/3.8 V	-0.00609	0.00348	PASS
	10°C/3.8 V	-0.00618	0.00435	PASS
	20°C/3.8 V	-0.0051	0.00447	PASS
	30°C/3.8 V	-0.00425	0.00388	PASS
	40°C/3.8 V	-0.0071	0.00157	PASS
	50°C/3.8 V	-0.00228	0.00347	PASS
	20°C/4.35 V	-0.0048	0.00203	PASS
	20°C/3.6 V	-0.00511	0.00438	PASS
3MHz	-30°C/3.8 V	-0.00857	0.00104	PASS
	-20°C/3.8 V	-0.007	0.00654	PASS
	-10°C/3.8 V	-0.01061	0.00423	PASS
	0°C/3.8 V	-0.01127	0.004	PASS
	10°C/3.8 V	0.00058	0.00689	PASS
	20°C/3.8 V	-0.00256	0.00625	PASS
	30°C/3.8 V	-0.00493	0.01	PASS
	40°C/3.8 V	-0.00257	-0.0001	PASS



	50°C/3.8 V	-0.00461	0.00732	PASS
	20°C/4.35 V	-0.00225	0.00397	PASS
	20°C/3.6 V	-0.00169	-0.005	PASS
5MHz	-30°C/3.8 V	-0.00257	-0.00195	PASS
	-20°C/3.8 V	-0.0029	-0.00327	PASS
	-10°C/3.8 V	-0.00248	-0.00529	PASS
	0°C/3.8 V	-0.00271	-0.00327	PASS
	10°C/3.8 V	-0.00293	-0.0072	PASS
	20°C/3.8 V	-0.0032	-0.00443	PASS
	30°C/3.8 V	-0.00286	0.00573	PASS
	40°C/3.8 V	-0.00306	0.00435	PASS
	50°C/3.8 V	-0.00293	-0.00002	PASS
	20°C/4.35 V	-0.00266	-0.00298	PASS
	20°C/3.6 V	-0.00228	0.00666	PASS
10MHz	-30°C/3.8 V	-0.00091	0.00585	PASS
	-20°C/3.8 V	-0.00051	0.00787	PASS
	-10°C/3.8 V	-0.00088	0.00238	PASS
	0°C/3.8 V	-0.00023	0.00134	PASS
	10°C/3.8 V	-0.00042	0.00348	PASS
	20°C/3.8 V	-0.00037	0.00377	PASS
	30°C/3.8 V	-0.0005	0.00267	PASS
	40°C/3.8 V	-0.00079	0.00527	PASS
	50°C/3.8 V	-0.00067	0.00746	PASS
	20°C/4.35 V	0.00002	0.00261	PASS
	20°C/3.6 V	-0.00083	-0.00236	PASS
15MHz	-30°C/3.8 V	0.00005	-0.00021	PASS
	-20°C/3.8 V	0.00013	0.00025	PASS
	-10°C/3.8 V	0.00024	0.00032	PASS
	0°C/3.8 V	0.00014	0.00029	PASS
	10°C/3.8 V	0.00002	-0.00031	PASS
	20°C/3.8 V	0.00012	0.00048	PASS
	30°C/3.8 V	0.00053	0.00031	PASS
	40°C/3.8 V	0.00014	0.00019	PASS
	50°C/3.8 V	0.00003	0.00031	PASS
	20°C/4.35 V	0.00068	-0.00002	PASS
	20°C/3.6 V	0.00047	-0.00051	PASS
20MHz	-30°C/3.8 V	0.00048	0.00054	PASS
	-20°C/3.8 V	0.00019	0.00035	PASS
	-10°C/3.8 V	0.00048	0.00057	PASS
	0°C/3.8 V	-0.00021	0.00047	PASS



	10°C/3.8 V	0.00066	0.00052	PASS
	20°C/3.8 V	0.00055	0.00006	PASS
	30°C/3.8 V	0.00063	0.00073	PASS
	40°C/3.8 V	-0.00006	0.00046	PASS
	50°C/3.8 V	0.00077	0.00086	PASS
	20°C/4.35 V	0.00118	0.00027	PASS
	20°C/3.6 V	0.00008	0.00064	PASS

Bandwidth	Test status	LTE Band 7 Channel 21100 Test Results (ppm)		
		QPSK	16QAM	Conclusion
5MHz	-30°C/3.8 V	-0.00116	-0.00209	PASS
	-20°C/3.8 V	0.00448	-0.00108	PASS
	-10°C/3.8 V	0.00465	-0.00182	PASS
	0°C/3.8 V	-0.0005	0.00073	PASS
	10°C/3.8 V	0.00087	-0.00193	PASS
	20°C/3.8 V	0.00211	-0.0007	PASS
	30°C/3.8 V	0.00095	-0.00089	PASS
	40°C/3.8 V	0.00574	0.00142	PASS
	50°C/3.8 V	0.0004	-0.00166	PASS
	20°C/4.35 V	0.00197	-0.00132	PASS
	20°C/3.6 V	-0.00078	-0.00051	PASS
10MHz	-30°C/3.8 V	0.00265	0.00077	PASS
	-20°C/3.8 V	0.0007	0.00208	PASS
	-10°C/3.8 V	0.00229	0.00235	PASS
	0°C/3.8 V	0.00059	0.00231	PASS
	10°C/3.8 V	-0.00223	0.00393	PASS
	20°C/3.8 V	-0.00131	0.00223	PASS
	30°C/3.8 V	0.00037	-0.00143	PASS
	40°C/3.8 V	-0.0025	-0.00216	PASS
	50°C/3.8 V	-0.00015	-0.00058	PASS
	20°C/4.35 V	-0.00334	0.00169	PASS
	20°C/3.6 V	-0.00002	0.00169	PASS
15MHz	-30°C/3.8 V	0.00256	-0.00409	PASS
	-20°C/3.8 V	-0.00038	-0.00243	PASS
	-10°C/3.8 V	0.00057	-0.00027	PASS
	0°C/3.8 V	-0.00075	-0.00078	PASS
	10°C/3.8 V	0.00048	-0.00105	PASS
	20°C/3.8 V	0.00408	0.00003	PASS
	30°C/3.8 V	0.00256	-0.00216	PASS



	40°C/3.8 V	-0.00321	0.00104	PASS
	50°C/3.8 V	0.00367	0.001	PASS
	20°C/4.35 V	-0.00092	0.00096	PASS
	20°C/3.6 V	0.0004	0.00095	PASS
20MHz	-30°C/3.8 V	-0.00255	-0.00021	PASS
	-20°C/3.8 V	0.00305	-0.00271	PASS
	-10°C/3.8 V	0.00061	-0.00407	PASS
	0°C/3.8 V	-0.00316	-0.00413	PASS
	10°C/3.8 V	0.00363	0.00251	PASS
	20°C/3.8 V	-0.00031	-0.00305	PASS
	30°C/3.8 V	0.00344	-0.0005	PASS
	40°C/3.8 V	0.0012	0.00087	PASS
	50°C/3.8 V	0.00041	0.00211	PASS
	20°C/4.35 V	0.00243	-0.00132	PASS
	20°C/3.6 V	0.00338	-0.0032	PASS

4.7 Spurious Emissions at Antenna Terminals

Ambient condition

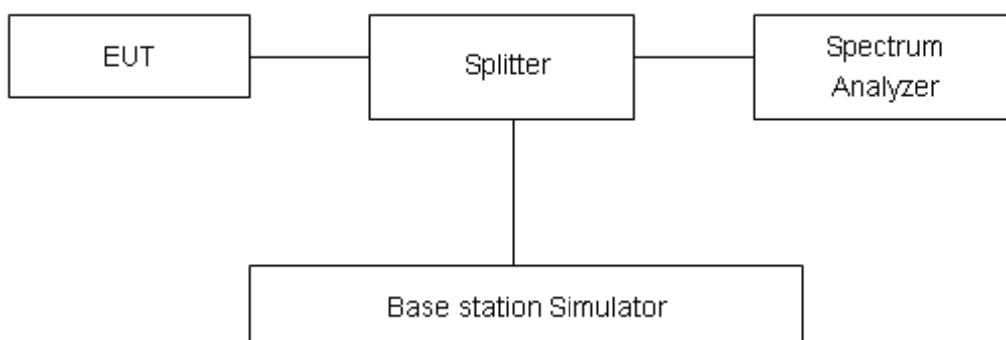
Temperature	Relative humidity	Pressure
23°C ~25°C	45%~50%	101.5kPa

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 for the carrier frequency, or RBW and VBW are set to 1MHz (other frequency), Sweep is set to ATUO.

Of those disturbances below (limit – 20 dB), the mark is not required for the EUT.

Test setup



Limits

WCDMA Band IV/LTE Band 4 -Rule Part 27.53(h) specifies that “the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \cdot \log_{10}(P)$ dB.”

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

WCDMA Band IV/LTE Band 4 Limit	-13 dBm
LTE Band 7 Limit	-25 dBm

Measurement Uncertainty

The assessed measurement uncertainty to ensure 99.75% confidence level for the normal



distribution is with the coverage factor $k = 1.96$.

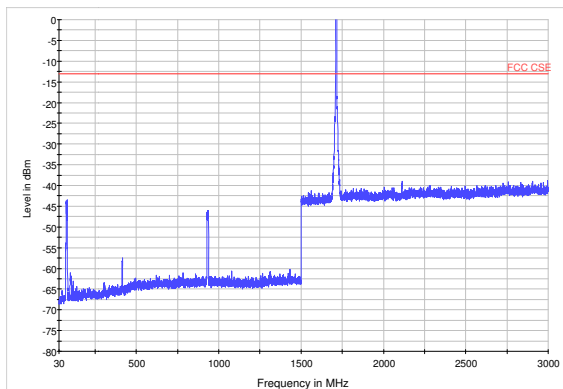
Frequency	Uncertainty
100kHz-2GHz	0.684 dB
2GHz-12.75GHz	1.407 dB

**Test Result: PASS**

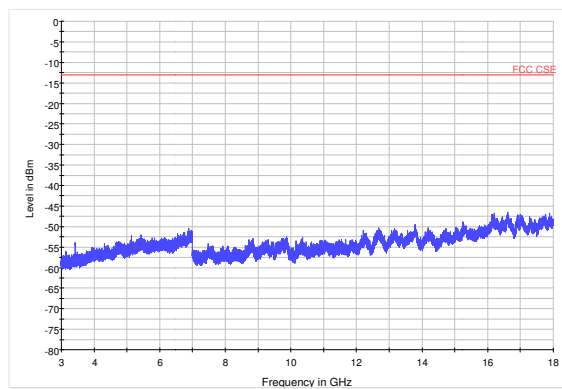
If disturbances were found more than 20dB below limit line, the mark is not required for the EUT.
The signal beyond the limit is carrier in the following plots.

Test Data File Name	Harmonic	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)
LTE B7_5M RB1_CH LOW_3-18GHz	2	5000.6	-25.82	-25.00	0.82
LTE B7_5M RB1_CH MID_3-18GHz	2	5065.9	-36.57	-25.00	11.57
LTE B7_5M RB1_CH HIG_3-18GHz	2	5130.8	-25.20	-25.00	0.20
LTE B7_10M RB1_CH LOW_3-18GHz	2	5001.4	-26.74	-25.00	1.74
LTE B7_10M RB1_CH MID_3-18GHz	2	5061.0	-34.71	-25.00	9.71
LTE B7_10M RB1_CH HIG_3-18GH	2	5121.4	-25.38	-25.00	0.38
LTE B7_15M RB1_CH LOW_3-18GHz	2	5001.8	-25.58	-25.00	0.58
LTE B7_15M RB1_CH MID_3-18GHz	2	5056.5	-33.26	-25.00	8.26
LTE B7_15M RB1_CH HIG_3-18GHz	2	5111.6	-25.24	-25.00	0.24
LTE B7_20M RB1_CH LOW_3-18GHz	2	5002.1	-26.23	-25.00	1.23
LTE B7_20M RB1_CH MID_3-18GHz	2	5052.0	-35.21	-25.00	10.21
LTE B7_20M RB1_CH HIG_3-18GHz	2	5102.3	-27.46	-25.00	2.46

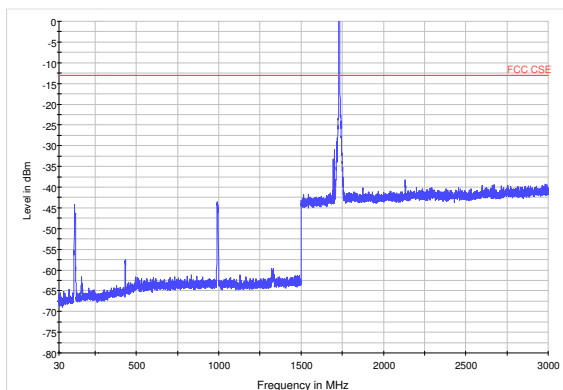
WCDMA Band IV CH-Low 30MHz~3GHz



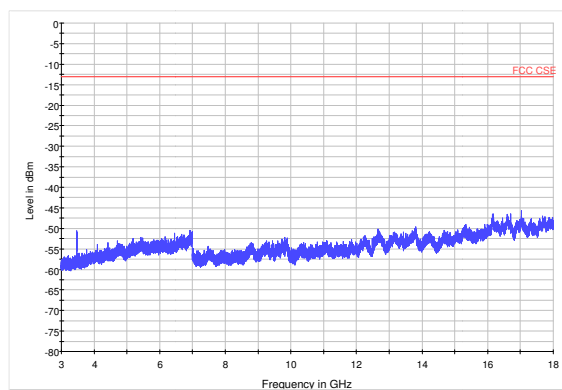
WCDMA Band IV CH-Low 3GHz ~18GHz



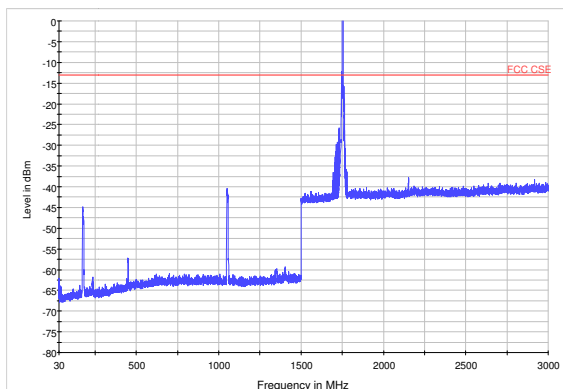
WCDMA Band IV CH-Middle 30MHz~3GHz



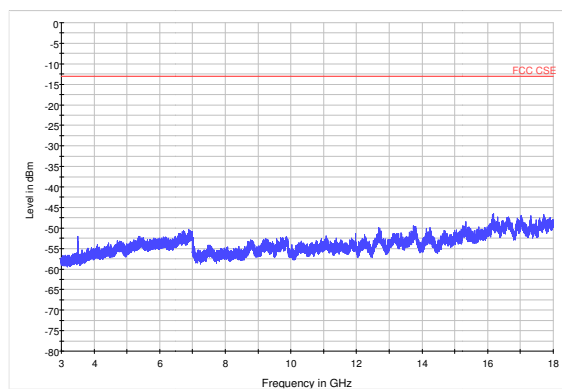
WCDMA Band IV CH-Middle 3GHz ~18GHz



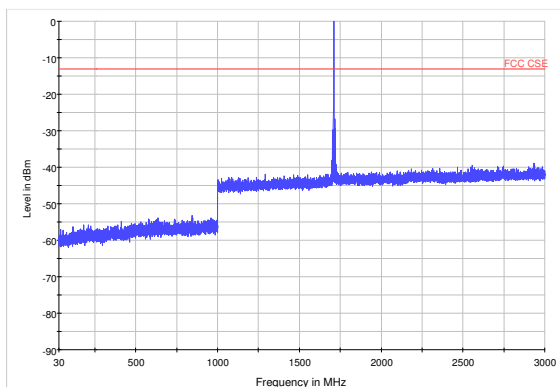
WCDMA Band IV CH-High 30MHz~3GHz



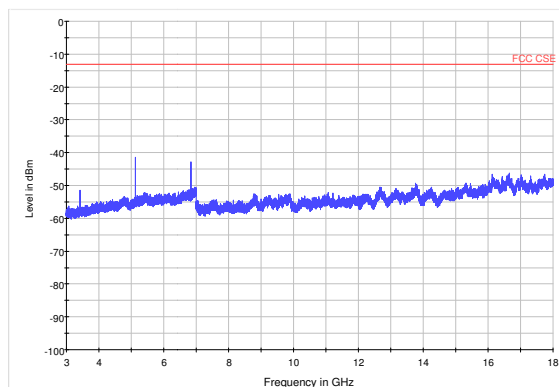
WCDMA Band IV CH-High 3GHz ~18GHz



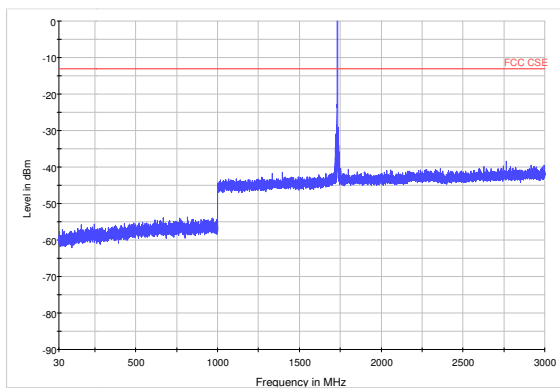
LTE Band 4 1.4MHz CH-Low 30MHz~3GHz



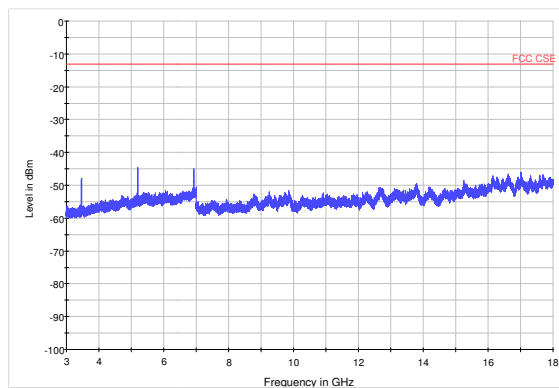
LTE Band 4 1.4MHz CH-Low 3GHz~18GHz



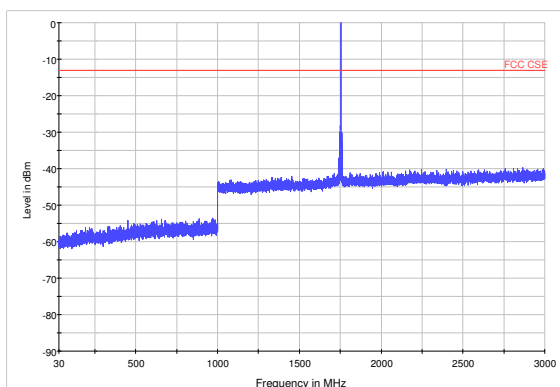
LTE Band 4 1.4MHz CH-Middle 30MHz~3GHz



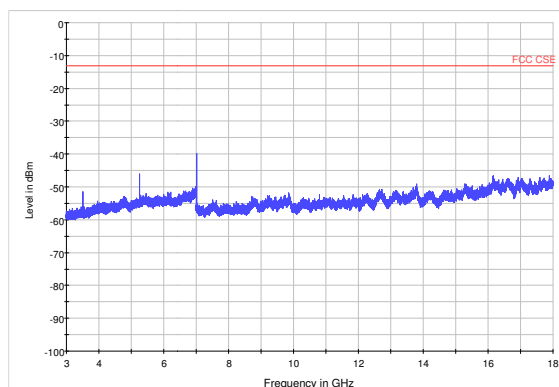
LTE Band 4 1.4MHz CH-Middle 3GHz~18GHz



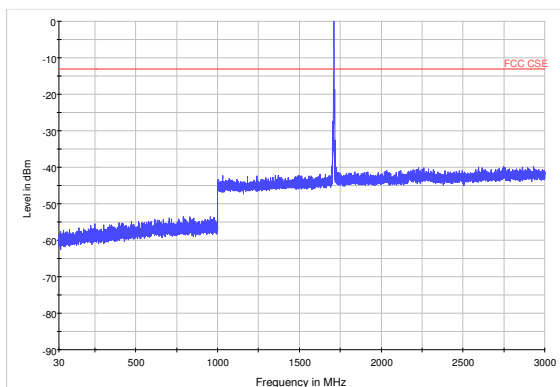
LTE Band 4 1.4MHz CH-High 30MHz~3GHz



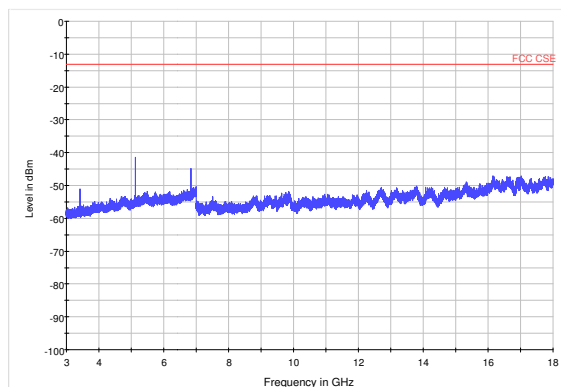
LTE Band 4 1.4MHz CH-High 3GHz~18GHz



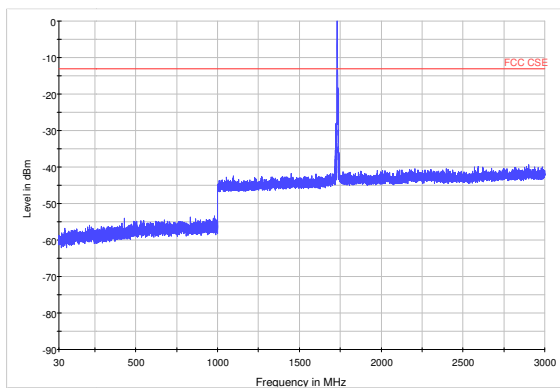
LTE Band 4 3MHz CH-Low 30MHz~3GHz



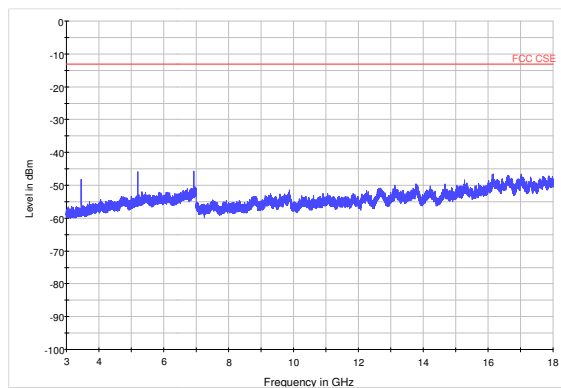
LTE Band 4 3MHz CH-Low 3GHz~18GHz



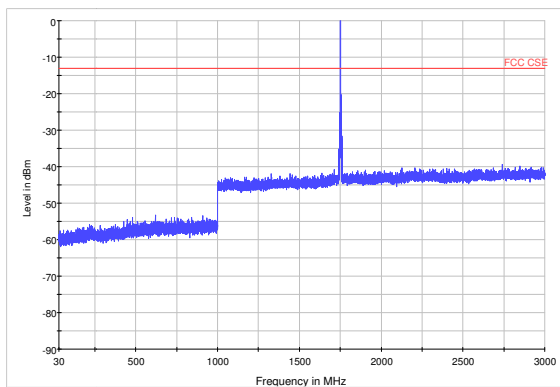
LTE Band 4 3MHz CH-Middle 30MHz~3GHz



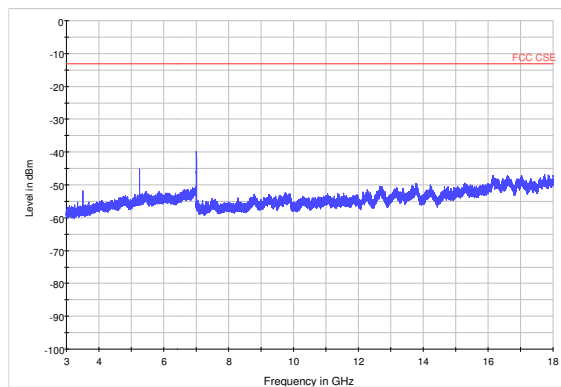
LTE Band 4 3MHz CH-Middle 3GHz~18GHz



LTE Band 4 3MHz CH-High 30MHz~3GHz

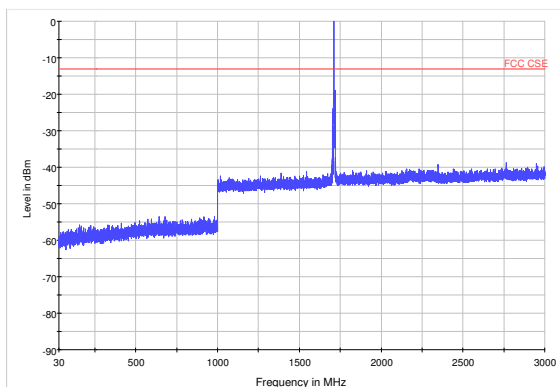


LTE Band 4 3MHz CH-High 3GHz~18GHz

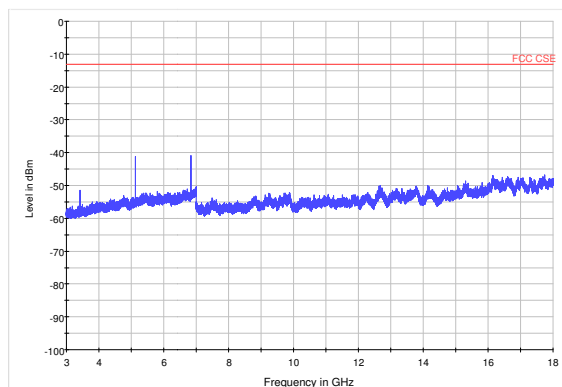




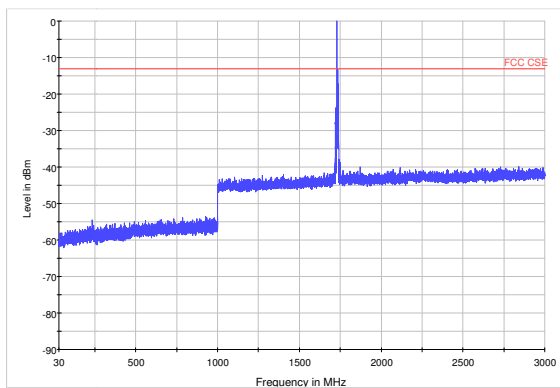
LTE Band 4 5MHz CH-Low 30MHz~3GHz



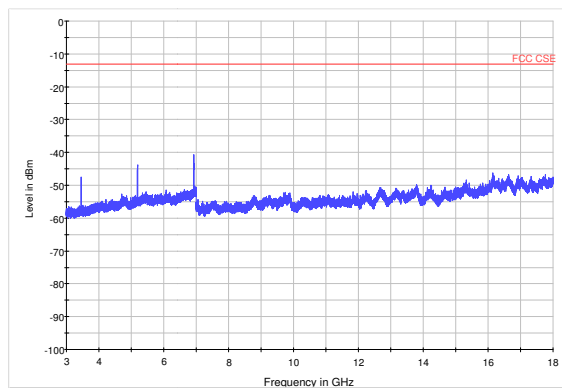
LTE Band 4 5MHz CH-Low 3GHz~18GHz



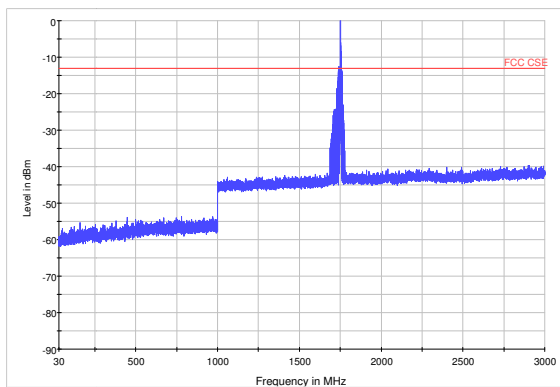
LTE Band 4 5MHz CH-Middle 30MHz~3GHz



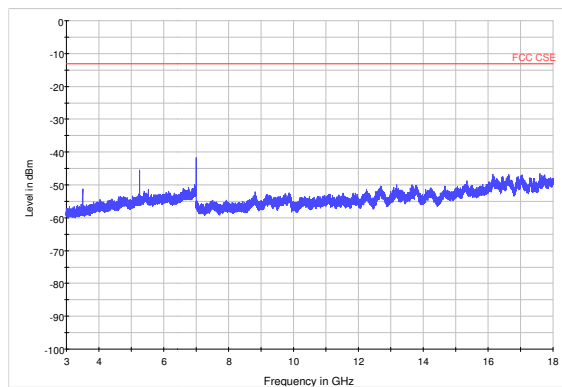
LTE Band 4 5MHz CH-Middle 3GHz~18GHz



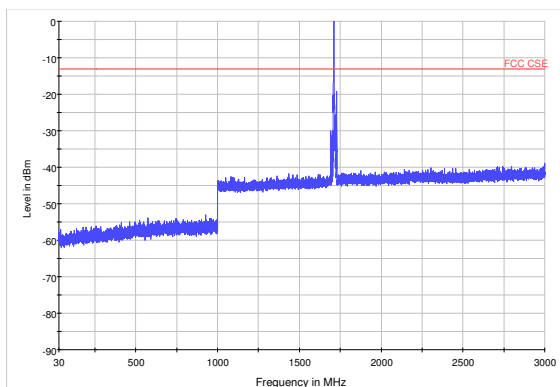
LTE Band 4 5MHz CH-High 30MHz~3GHz



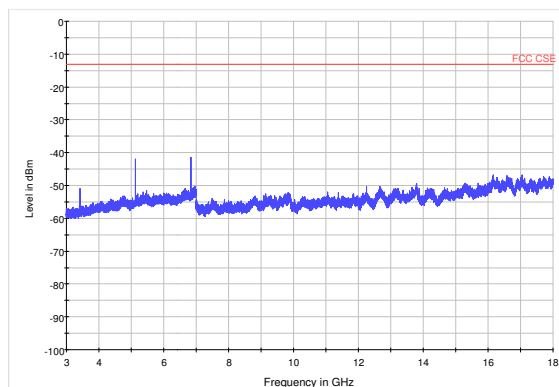
LTE Band 4 5MHz CH-High 3GHz~18GHz



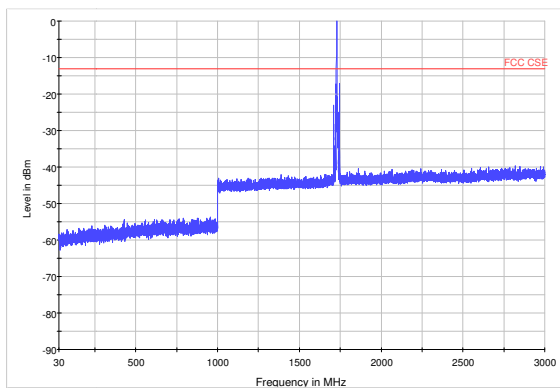
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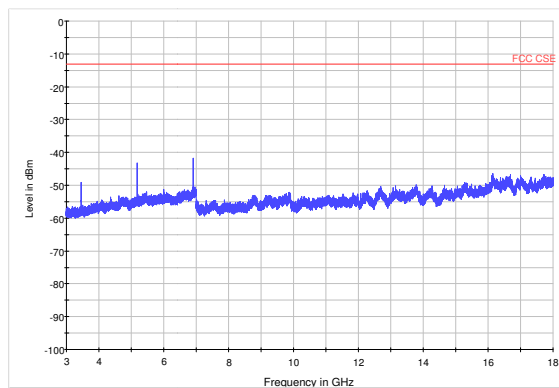
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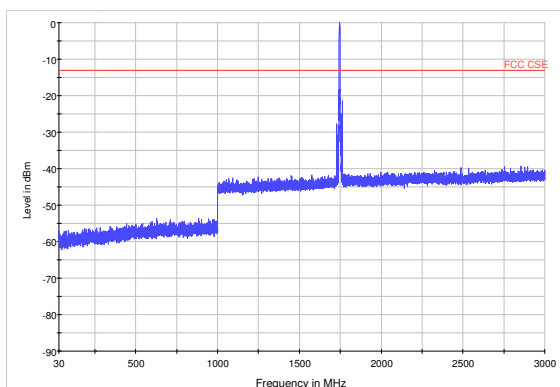
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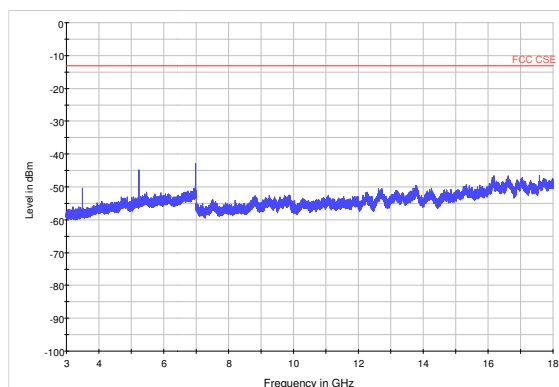
LTE Band 4 10MHz CH-Middle 3GHz~18GHz



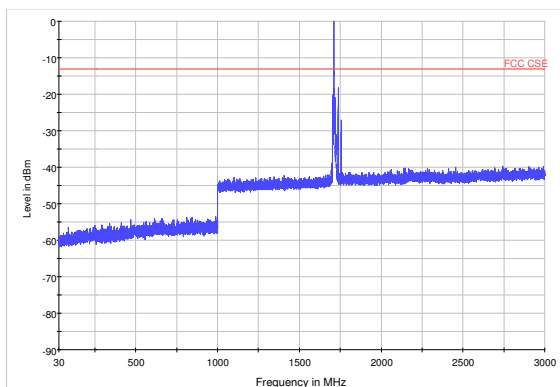
LTE Band 4 10MHz CH-High 30MHz~3GHz



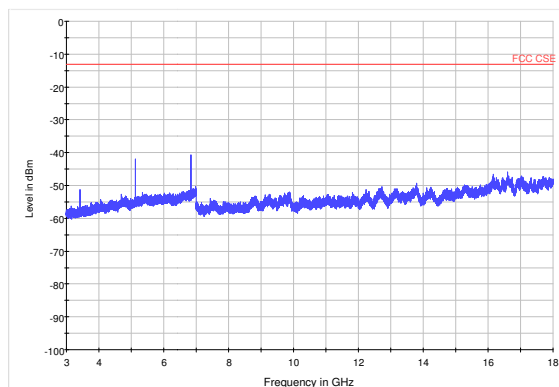
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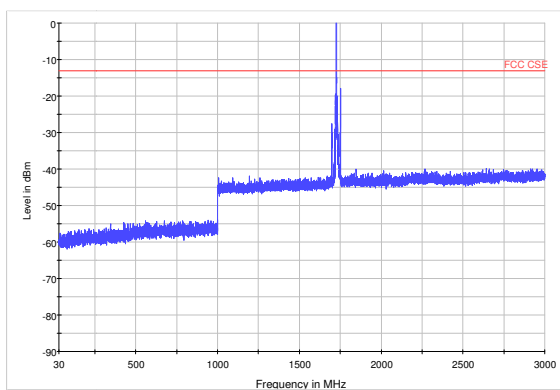
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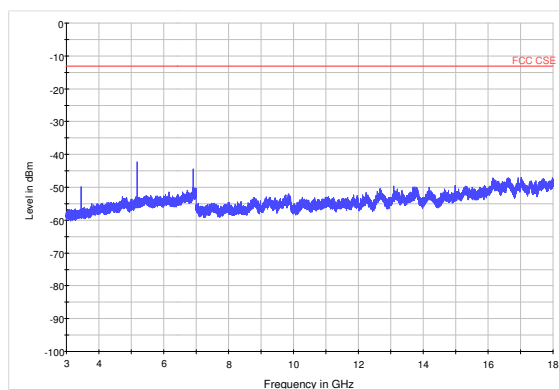
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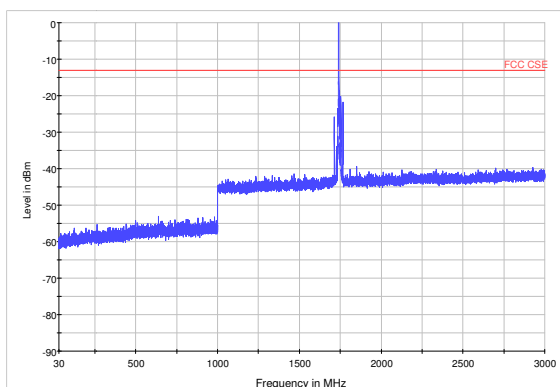
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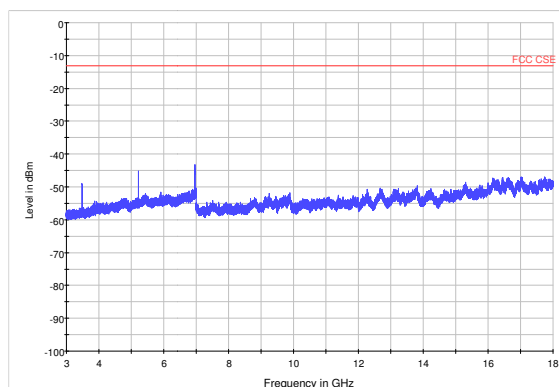
LTE Band 4 15MHz CH-Middle 3GHz~18GHz



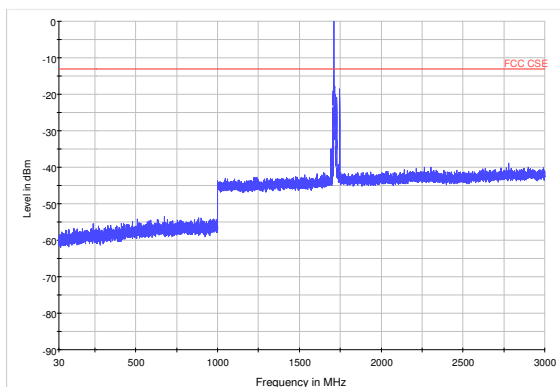
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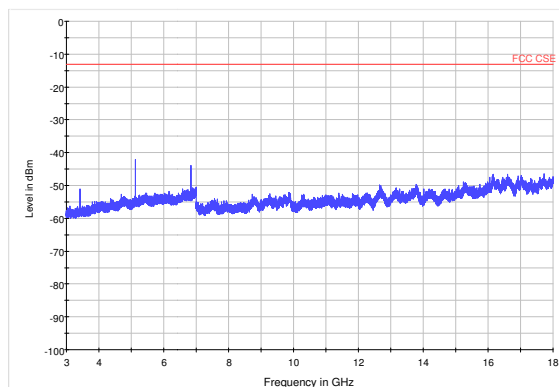
LTE Band 4 15MHz CH-High 3GHz~18GHz



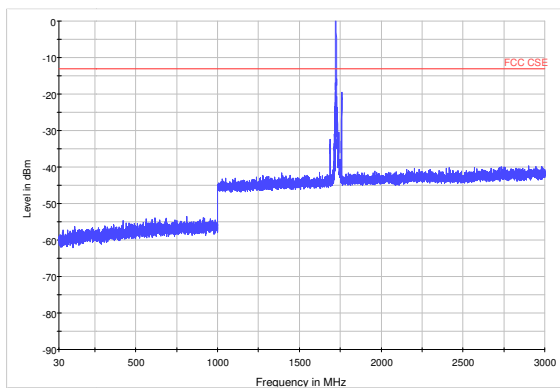
LTE Band 4 20MHz CH-Low 30MHz~3GHz



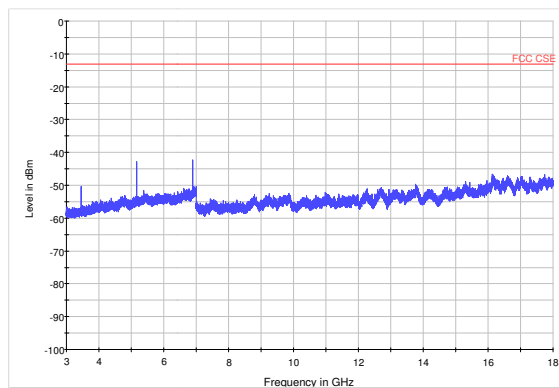
LTE Band 4 20MHz CH-Low 3GHz~18GHz



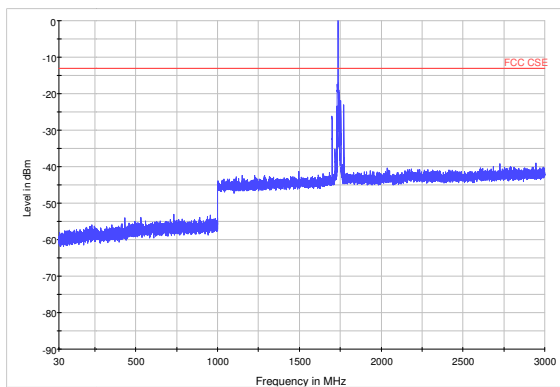
LTE Band 4 20MHz CH-Middle 30MHz~3GHz



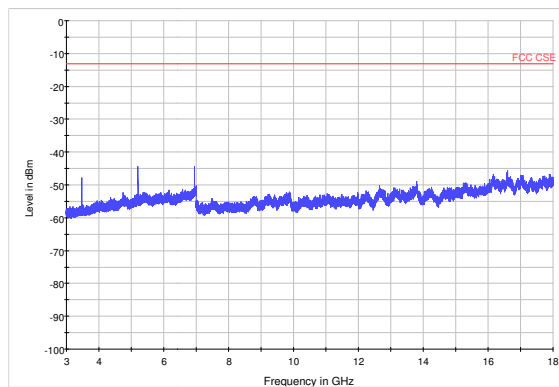
LTE Band 4 20MHz CH-Middle 3GHz~18GHz



LTE Band 4 20MHz CH-High 30MHz~3GHz

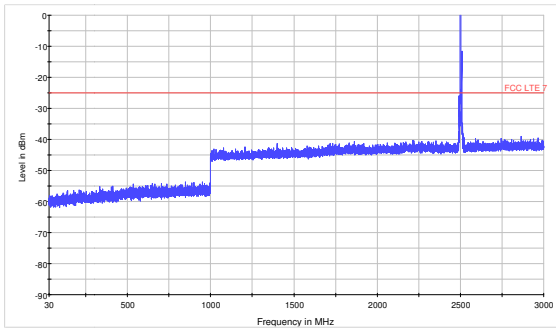


LTE Band 4 20MHz CH-High 3GHz~18GHz

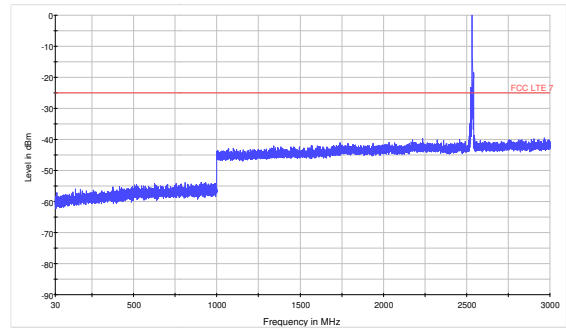




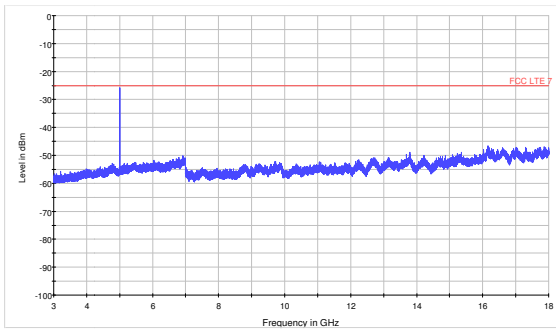
LTE Band 7 5MHz CH-Low 30MHz~3GHz



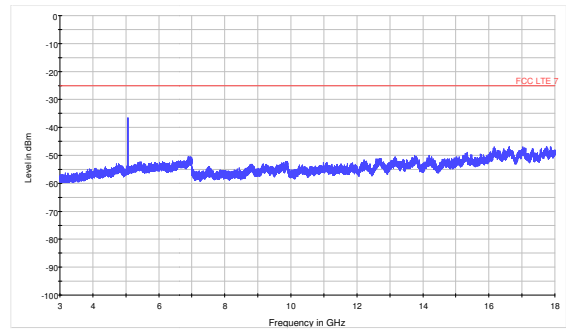
LTE Band 7 5MHz CH-Middle 30MHz~3GHz



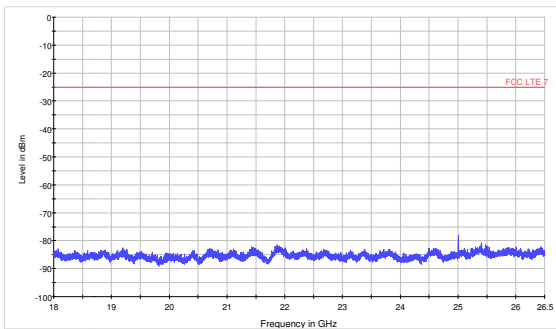
LTE Band 7 5MHz CH-Low 3GHz~18GHz



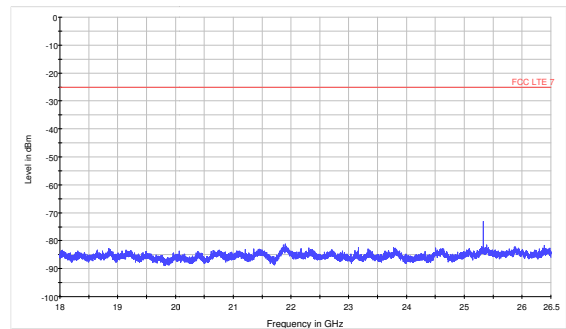
LTE Band 7 5MHz CH-Middle 3GHz~18GHz



LTE Band 7 5MHz CH-Low 18GHz~26.5GHz

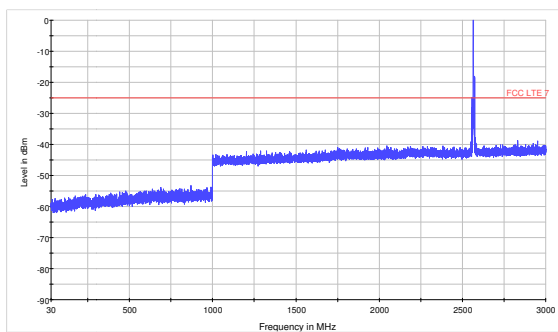


LTE Band 7 5MHz CH-Middle 18GHz~26.5GHz

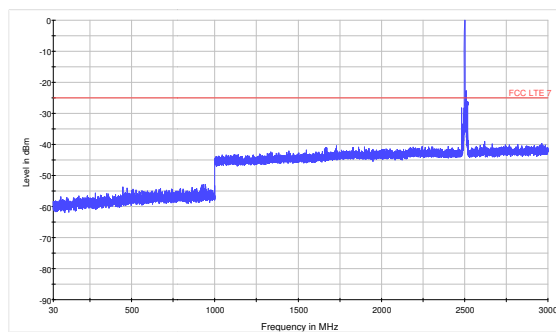




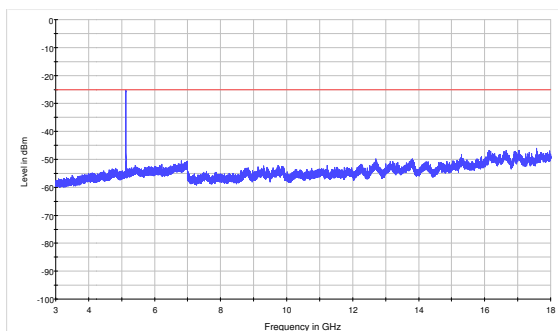
LTE Band 7 5MHz CH-High 30MHz~3GHz



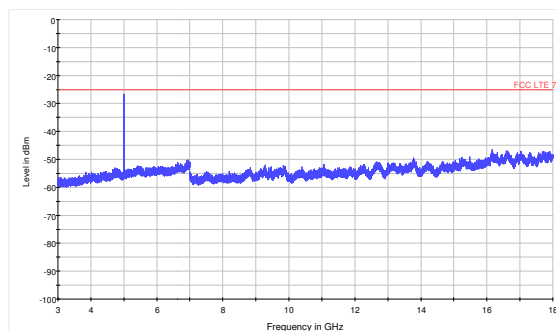
LTE Band 7 10MHz CH-Low 30MHz~3GHz



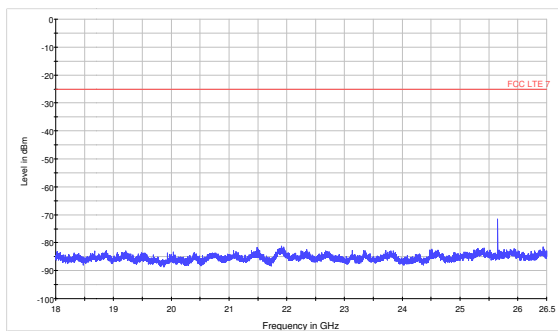
LTE Band 7 5MHz CH-High 3GHz~18GHz



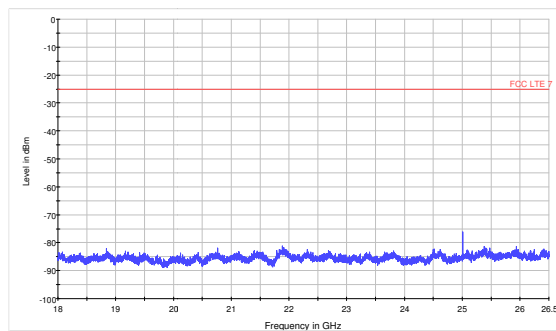
LTE Band 7 10MHz CH-Low 3GHz~18GHz



LTE Band 7 5MHz CH-High 18GHz~26.5GHz

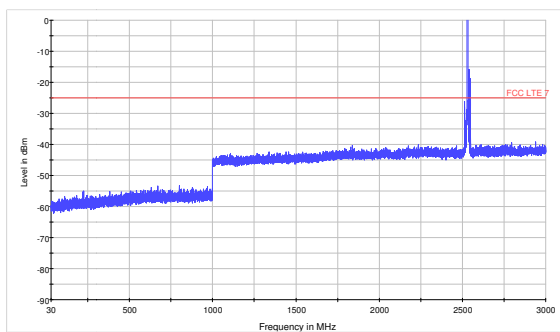


LTE Band 7 10MHz CH-Low 18GHz~26.5GHz

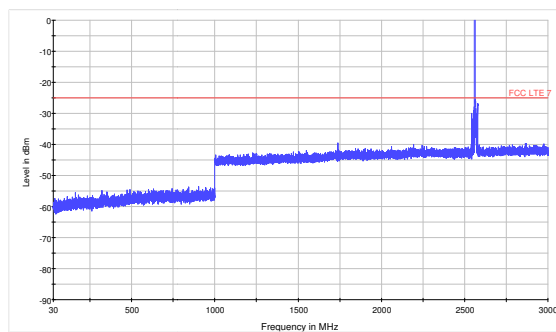




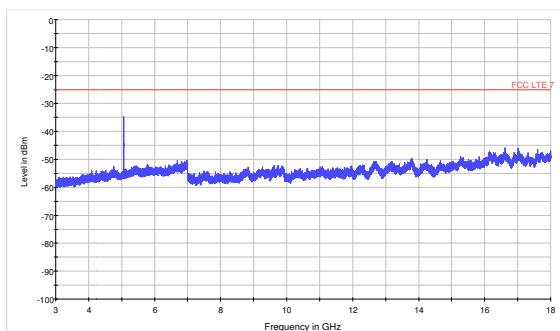
LTE Band 7 10MHz CH-Middle 30MHz~3GHz



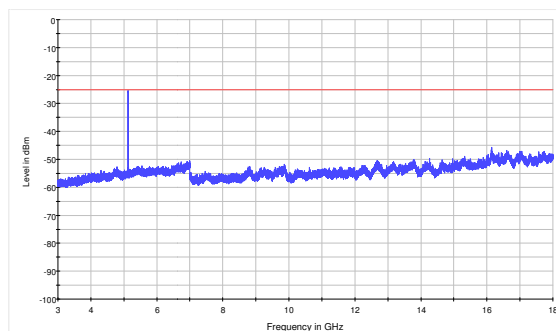
LTE Band 7 10MHz CH-High 30MHz~3GHz



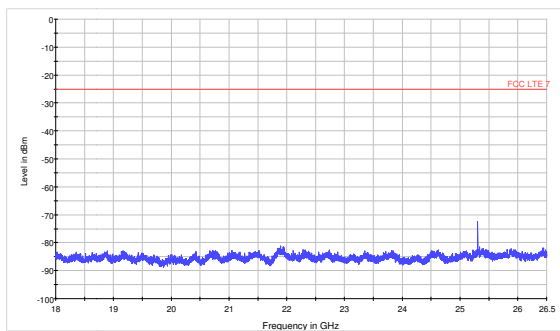
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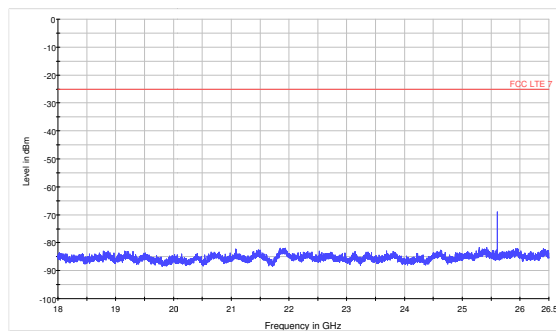
LTE Band 7 10MHz CH-High 3GHz~18GHz



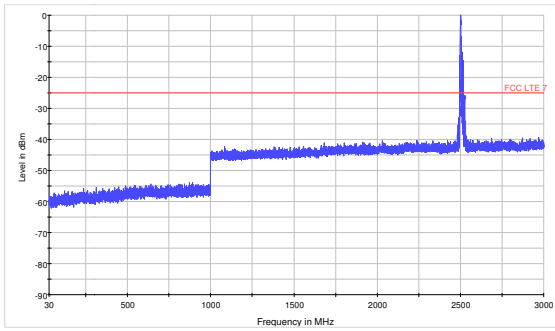
LTE Band 7 10MHz CH-Middle 18GHz~26.5GHz



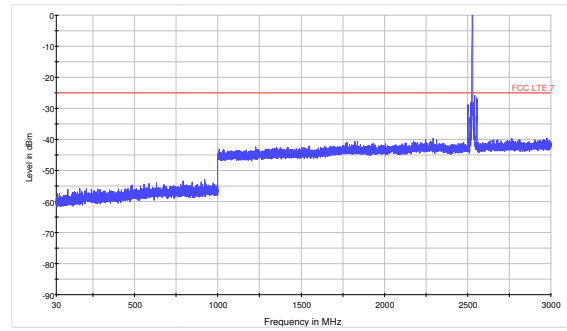
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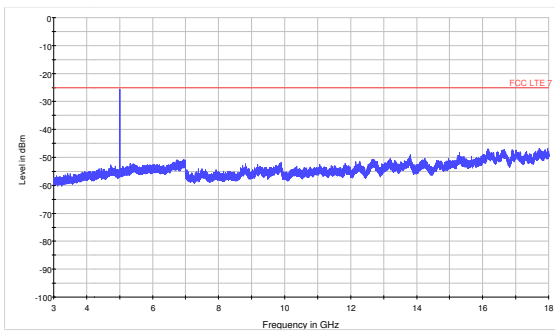
LTE Band 7 15MHz CH-Low 30MHz~3GHz



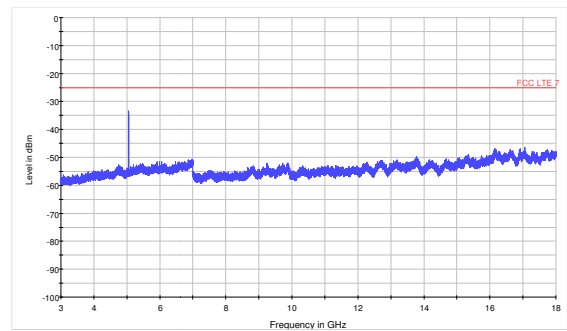
LTE Band 7 15MHz CH-Middle 30MHz~3GHz



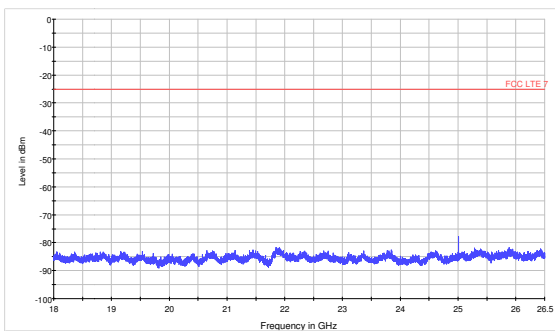
LTE Band 7 15MHz CH-Low 3GHz~18GHz



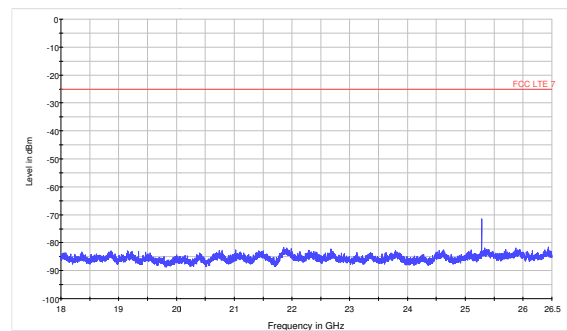
LTE Band 7 15MHz CH-Middle 3GHz~18GHz



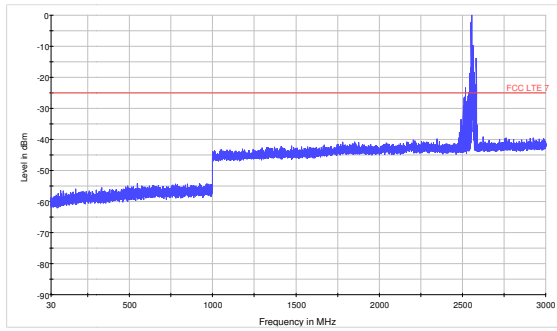
LTE Band 7 15MHz CH-Low 18GHz~26.5GHz



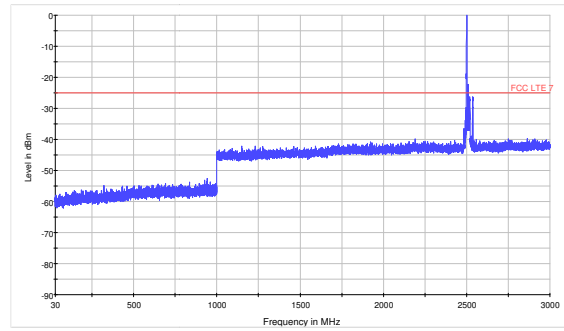
LTE Band 7 15MHz CH-Middle 18GHz~26.5GHz



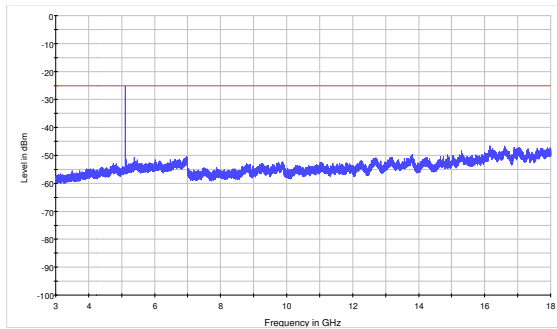
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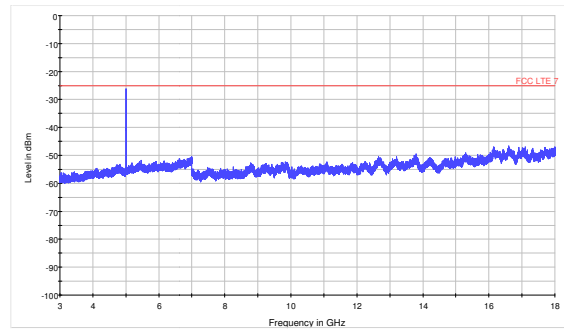
LTE Band 7 20MHz CH-Low 30MHz~3GHz



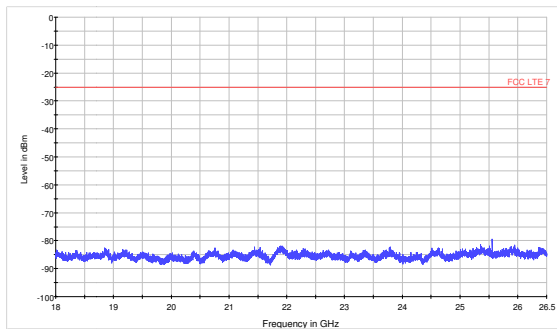
LTE Band 7 15MHz CH-High 3GHz~18GHz



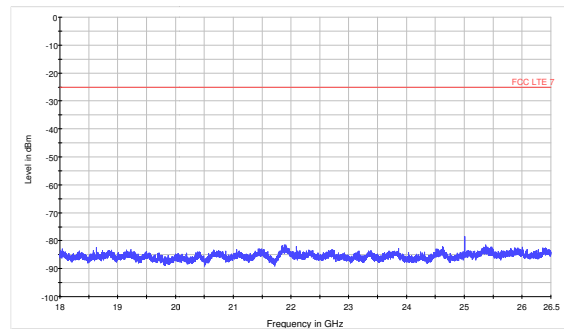
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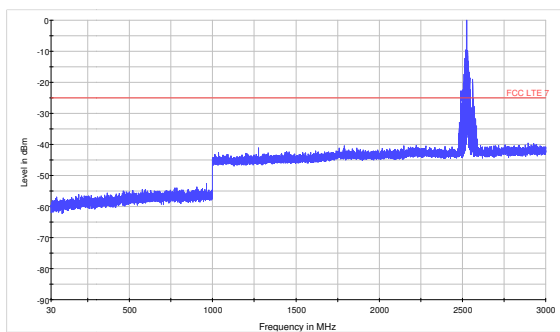
LTE Band 7 15MHz CH-High 18GHz~26.5GHz



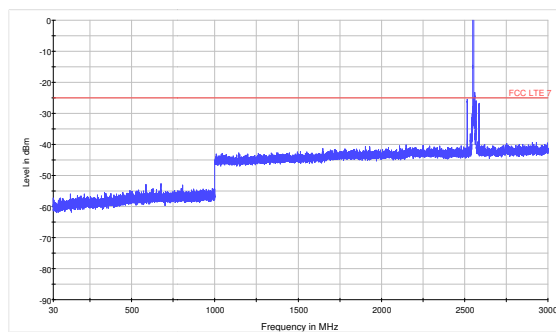
LTE Band 7 20MHz CH-Low 18GHz~26.5GHz



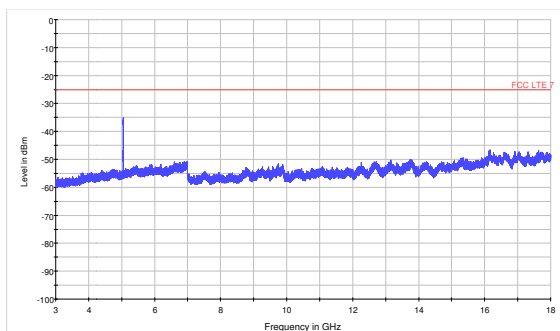
LTE Band 7 20MHz CH-Middle 30MHz~3GHz



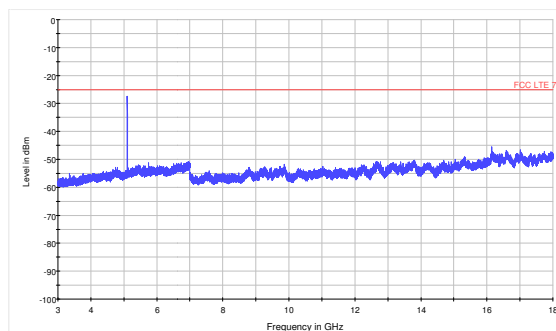
LTE Band 7 20MHz CH-High 30MHz~3GHz



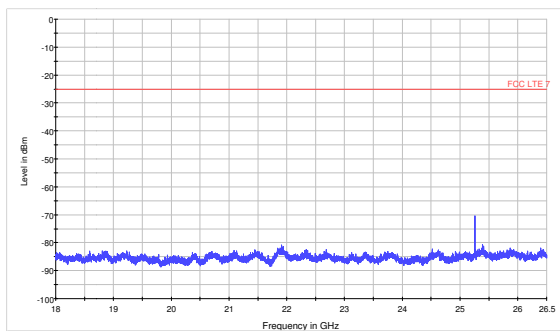
LTE Band 7 20MHz CH-Middle 3GHz~18GHz



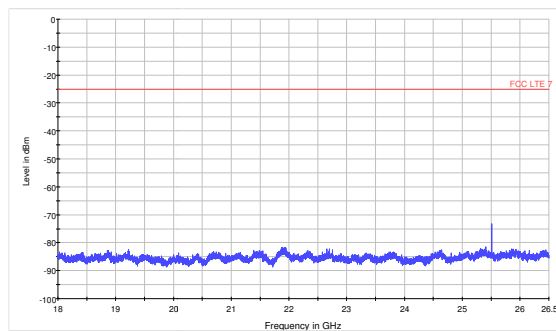
LTE Band 7 20MHz CH-High 3GHz~18GHz



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



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



4.8 Radiates Spurious Emission

Ambient condition

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

Method of Measurement

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

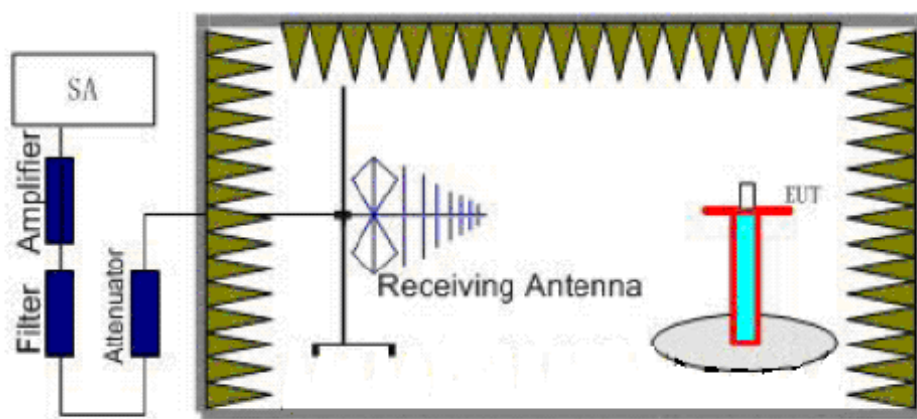
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment.

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

The procedure of Radiates Spurious Emission is as follows:

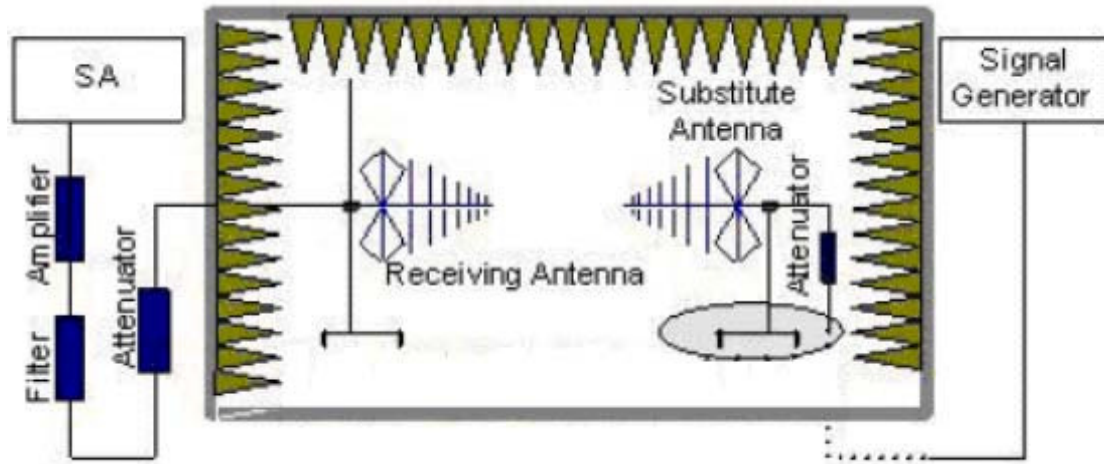
Step 1:

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 3MHz. 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.



E.R.P (peak power) =S.G. - Tx Cable loss + Substitution antenna gain – 2.15.

EIRP= E.R.P+2.15

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). Receiver antenna polarization (horizontal and vertical), The worst emission was found in position (Z axis, vertical polarization) and the worst case was recorded.

Limits

WCDMA Band IV/LTE Band 4 Rule Part 27.53(h) specifies that “the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 43 + 10*log10(P) dB.”

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

WCDMA Band IV/LTE Band 4 Limit	-13 dBm
LTE Band 7 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	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3424.8	-65.55	2.6	10.15	Vertical	-58.00	-13.00	45.00	225
3	5137.2	-65.45	2.4	11.35	Vertical	-56.50	-13.00	43.50	45
4	6849.6	-59.75	4.5	10.85	Vertical	-53.40	-13.00	40.40	45
5	8562.0	-61.45	5.1	11.35	Vertical	-55.20	-13.00	42.20	90
6	10274.4	-59.75	5.3	11.95	Vertical	-53.10	-13.00	40.10	270
7	11986.8	-56.15	5.5	13.55	Vertical	-48.10	-13.00	35.10	135
8	13699.2	-56.65	6.3	13.75	Vertical	-49.20	-13.00	36.20	270
9	15411.6	-55.45	6.7	13.85	Vertical	-48.30	-13.00	35.30	270
10	17124.0	-49.55	6.8	14.25	Vertical	-42.10	-13.00	29.10	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.

WCDMA Band IV CH-Middle

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3465.2	-67.15	2.6	10.75	Vertical	-59.00	-13.00	46.00	45
3	5197.8	-65.25	2.4	11.05	Vertical	-56.60	-13.00	43.60	180
4	6930.4	-60.65	4.5	11.15	Vertical	-54.00	-13.00	41.00	225
5	8663.0	-61.95	5.1	11.35	Vertical	-55.70	-13.00	42.70	45
6	10395.6	-59.85	5.3	11.95	Vertical	-53.20	-13.00	40.20	45
7	12128.2	-56.25	5.5	13.55	Vertical	-48.20	-13.00	35.20	90
8	13860.8	-57.25	6.3	13.75	Vertical	-49.80	-13.00	36.80	270
9	15593.4	-55.95	6.7	13.85	Vertical	-48.80	-13.00	35.80	135
10	17326.0	-50.15	6.8	14.25	Vertical	-42.70	-13.00	29.70	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.

WCDMA Band IV CH-High

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3505.2	-66.45	2.6	10.15	Vertical	-58.90	-13.00	45.90	270
3	5257.8	-66.05	2.4	11.05	Vertical	-57.40	-13.00	44.40	0
4	7010.4	-61.25	4.5	11.15	Vertical	-54.60	-13.00	41.60	45
5	8763.0	-62.75	5.1	11.35	Vertical	-56.50	-13.00	43.50	180
6	10515.6	-61.35	5.3	11.95	Vertical	-54.70	-13.00	41.70	225
7	12268.2	-57.35	5.5	13.55	Vertical	-49.30	-13.00	36.30	45
8	14020.8	-55.85	6.3	13.75	Vertical	-48.40	-13.00	35.40	45
9	15773.4	-56.05	6.7	13.85	Vertical	-48.90	-13.00	35.90	90
10	17526.0	-48.85	6.8	14.25	Vertical	-41.40	-13.00	28.40	270

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

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

LTE Band 4 QPSK 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	3421.4	-64.85	2.6	10.15	Vertical	-57.30	-13.00	44.30	45.00
3	5132.1	-62.35	2.4	11.35	Vertical	-53.40	-13.00	40.40	45.00
4	6842.8	-59.05	4.5	10.85	Vertical	-52.70	-13.00	39.70	0.00
5	8553.5	-58.35	5.1	11.35	Vertical	-52.10	-13.00	39.10	225.00
6	10264.2	-56.75	5.3	11.95	Vertical	-50.10	-13.00	37.10	135.00
7	11974.9	-55.85	5.5	13.55	Vertical	-47.80	-13.00	34.80	90.00
8	13685.6	-57.75	6.3	13.75	Vertical	-50.30	-13.00	37.30	45.00
9	15396.3	-53.35	6.7	13.85	Vertical	-46.20	-13.00	33.20	180.00
10	17107.0	-52.48	6.8	14.25	Vertical	-45.03	-13.00	32.03	45.00

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

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

LTE Band 4 QPSK 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	34214.00	-66.15	2.6	10.75	Vertical	-58.00	-13.00	45.00	315.00
3	51321.00	-63.05	2.4	11.05	Vertical	-54.40	-13.00	41.40	45.00
4	68428.00	-60.15	4.5	11.15	Vertical	-53.50	-13.00	40.50	90.00
5	85535.00	-58.65	5.1	11.35	Vertical	-52.40	-13.00	39.40	90.00
6	102642.00	-56.95	5.3	11.95	Vertical	-50.30	-13.00	37.30	135.00
7	119749.00	-56.05	5.5	13.55	Vertical	-48.00	-13.00	35.00	90.00
8	136856.00	-58.05	6.3	13.75	Vertical	-50.60	-13.00	37.60	45.00
9	153963.00	-53.35	6.7	13.85	Vertical	-46.20	-13.00	33.20	180.00
10	171070.00	-52.65	6.8	14.25	Vertical	-45.20	-13.00	32.20	45.00

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

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

LTE Band 4 QPSK 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	3508.60	-65.85	2.6	10.15	Vertical	-58.30	-13.00	45.30	0.00
3	5262.90	-63.05	2.4	11.05	Vertical	-54.40	-13.00	41.40	45.00
4	7017.20	-60.15	4.5	11.15	Vertical	-53.50	-13.00	40.50	90.00
5	8771.50	-59.15	5.1	11.35	Vertical	-52.90	-13.00	39.90	0.00
6	10525.80	-57.75	5.3	11.95	Vertical	-51.10	-13.00	38.10	135.00
7	12280.10	-56.55	5.5	13.55	Vertical	-48.50	-13.00	35.50	90.00
8	14034.40	-59.15	6.3	13.75	Vertical	-51.70	-13.00	38.70	45.00
9	15788.70	-55.05	6.7	13.85	Vertical	-47.90	-13.00	34.90	180.00
10	17543.00	-53.45	6.8	14.25	Vertical	-46.00	-13.00	33.00	45.00

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

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

LTE Band 4 QPSK 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	3423.00	-64.25	2.6	10.15	Vertical	-56.70	-13.00	43.70	0.00
3	5134.50	-62.35	2.4	11.35	Vertical	-53.40	-13.00	40.40	45.00
4	6846.00	-59.55	4.5	10.85	Vertical	-53.20	-13.00	40.20	90.00
5	8557.50	-58.05	5.1	11.35	Vertical	-51.80	-13.00	38.80	180.00
6	10269.00	-63.35	5.3	11.95	Vertical	-56.70	-13.00	43.70	135.00
7	11980.50	-57.55	5.5	13.55	Vertical	-49.50	-13.00	36.50	90.00
8	13692.00	-56.15	6.3	13.75	Vertical	-48.70	-13.00	35.70	45.00
9	15403.50	-52.75	6.7	13.85	Vertical	-45.60	-13.00	32.60	180.00
10	17115.00	-49.75	6.8	14.25	Vertical	-42.30	-13.00	29.30	45.00

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

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

LTE Band 4 QPSK 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	3421.40	-65.45	2.6	10.75	Vertical	-57.30	-13.00	44.30	0.00
3	5132.10	-62.25	2.4	11.05	Vertical	-53.60	-13.00	40.60	45.00
4	6842.80	-60.55	4.5	11.15	Vertical	-53.90	-13.00	40.90	90.00
5	8553.50	-58.55	5.1	11.35	Vertical	-52.30	-13.00	39.30	225.00
6	10264.20	-64.05	5.3	11.95	Vertical	-57.40	-13.00	44.40	135.00
7	11974.90	-58.35	5.5	13.55	Vertical	-50.30	-13.00	37.30	90.00
8	13685.60	-56.85	6.3	13.75	Vertical	-49.40	-13.00	36.40	45.00
9	15396.30	-53.35	6.7	13.85	Vertical	-46.20	-13.00	33.20	180.00
10	17107.00	-50.25	6.8	14.25	Vertical	-42.80	-13.00	29.80	45.00

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

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

LTE Band 4 QPSK 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	3507.00	-65.85	2.6	10.15	Vertical	-58.30	-13.00	45.30	45.00
3	5260.50	-63.35	2.4	11.05	Vertical	-54.70	-13.00	41.70	225.00
4	7014.00	-59.95	4.5	11.15	Vertical	-53.30	-13.00	40.30	90.00
5	8767.50	-59.15	5.1	11.35	Vertical	-52.90	-13.00	39.90	0.00
6	10521.00	-64.05	5.3	11.95	Vertical	-57.40	-13.00	44.40	135.00
7	12274.50	-57.85	5.5	13.55	Vertical	-49.80	-13.00	36.80	90.00
8	14028.00	-56.95	6.3	13.75	Vertical	-49.50	-13.00	36.50	45.00
9	15781.50	-53.65	6.7	13.85	Vertical	-46.50	-13.00	33.50	180.00
10	17535.00	-51.35	6.8	14.25	Vertical	-43.90	-13.00	30.90	45.00

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

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

LTE Band 4 QPSK 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	3425.00	-64.25	2.6	10.15	Vertical	-56.70	-13.00	43.70	180.00
3	5137.50	-61.14	2.4	11.35	Vertical	-52.19	-13.00	39.19	45.00
4	6850.00	-59.55	4.5	10.85	Vertical	-53.20	-13.00	40.20	90.00
5	8562.50	-58.85	5.1	11.35	Vertical	-52.60	-13.00	39.60	0.00
6	10275.00	-62.25	5.3	11.95	Vertical	-55.60	-13.00	42.60	135.00
7	11987.50	-58.85	5.5	13.55	Vertical	-50.80	-13.00	37.80	90.00
8	13700.00	-60.25	6.3	13.75	Vertical	-52.80	-13.00	39.80	45.00
9	15412.50	-55.25	6.7	13.85	Vertical	-48.10	-13.00	35.10	180.00
10	17125.00	-51.05	6.8	14.25	Vertical	-43.60	-13.00	30.60	45.00

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

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

LTE Band 4 QPSK 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	3421.40	-65.35	2.6	10.75	Vertical	-57.20	-13.00	44.20	45.00
3	5132.10	-60.95	2.4	11.05	Vertical	-52.30	-13.00	39.30	0.00
4	6842.80	-59.95	4.5	11.15	Vertical	-53.30	-13.00	40.30	0.00
5	8553.50	-58.85	5.1	11.35	Vertical	-52.60	-13.00	39.60	90.00
6	10264.20	-62.55	5.3	11.95	Vertical	-55.90	-13.00	42.90	135.00
7	11974.90	-59.25	5.5	13.55	Vertical	-51.20	-13.00	38.20	90.00
8	13685.60	-60.65	6.3	13.75	Vertical	-53.20	-13.00	40.20	45.00
9	15396.30	-55.75	6.7	13.85	Vertical	-48.60	-13.00	35.60	180.00
10	17107.00	-51.85	6.8	14.25	Vertical	-44.40	-13.00	31.40	45.00

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

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

LTE Band 4 QPSK 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	3505.00	-65.25	2.6	10.15	Vertical	-57.70	-13.00	44.70	45.00
3	5257.50	-61.85	2.4	11.05	Vertical	-53.20	-13.00	40.20	0.00
4	7010.00	-60.85	4.5	11.15	Vertical	-54.20	-13.00	41.20	90.00
5	8762.50	-60.35	5.1	11.35	Vertical	-54.10	-13.00	41.10	0.00
6	10515.00	-63.45	5.3	11.95	Vertical	-56.80	-13.00	43.80	135.00
7	12267.50	-59.65	5.5	13.55	Vertical	-51.60	-13.00	38.60	90.00
8	14020.00	-61.25	6.3	13.75	Vertical	-53.80	-13.00	40.80	45.00
9	15772.50	-56.75	6.7	13.85	Vertical	-49.60	-13.00	36.60	180.00
10	17525.00	-51.45	6.8	14.25	Vertical	-44.00	-13.00	31.00	45.00

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

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



LTE Band 4 QPSK 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	3430.00	-64.05	2.6	10.15	Vertical	-56.50	-13.00	43.50	0.00
3	5145.00	-62.15	2.4	11.35	Vertical	-53.20	-13.00	40.20	45.00
4	6860.00	46.05	4.5	10.85	Vertical	52.40	-13.00	-65.40	225.00
5	8575.00	45.85	5.1	11.35	Vertical	52.10	-13.00	-65.10	90.00
6	10290.00	-62.85	5.3	11.95	Vertical	-56.20	-13.00	43.20	135.00
7	12005.00	-58.35	5.5	13.55	Vertical	-50.30	-13.00	37.30	90.00
8	13720.00	-55.65	6.3	13.75	Vertical	-48.20	-13.00	35.20	45.00
9	15435.00	-54.45	6.7	13.85	Vertical	-47.30	-13.00	34.30	180.00
10	17150.00	35.05	6.8	14.25	Vertical	42.50	-13.00	-55.50	45.00

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

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

LTE Band 4 QPSK 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	3421.40	-64.95	2.6	10.75	Vertical	-56.80	-13.00	43.80	45.00
3	5132.10	-62.75	2.4	11.05	Vertical	-54.10	-13.00	41.10	270.00
4	6842.80	45.25	4.5	11.15	Vertical	51.90	-13.00	-64.90	90.00
5	8553.50	45.05	5.1	11.35	Vertical	51.30	-13.00	-64.30	0.00
6	10264.20	-63.25	5.3	11.95	Vertical	-56.60	-13.00	43.60	135.00
7	11974.90	-58.75	5.5	13.55	Vertical	-50.70	-13.00	37.70	90.00
8	13685.60	-55.75	6.3	13.75	Vertical	-48.30	-13.00	35.30	45.00
9	15396.30	-55.25	6.7	13.85	Vertical	-48.10	-13.00	35.10	180.00
10	17107.00	-49.75	6.8	14.25	Vertical	-42.30	-13.00	29.30	45.00

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

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



LTE Band 4 QPSK 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	3500.00	-64.95	2.6	10.15	Vertical	-57.40	-13.00	44.40	45.00
3	5250.00	-63.45	2.4	11.05	Vertical	-54.80	-13.00	41.80	315.00
4	7000.00	44.15	4.5	11.15	Vertical	50.80	-13.00	-63.80	90.00
5	8750.00	45.05	5.1	11.35	Vertical	51.30	-13.00	-64.30	0.00
6	10500.00	-64.25	5.3	11.95	Vertical	-57.60	-13.00	44.60	135.00
7	12250.00	-59.85	5.5	13.55	Vertical	-51.80	-13.00	38.80	90.00
8	14000.00	-56.95	6.3	13.75	Vertical	-49.50	-13.00	36.50	45.00
9	15750.00	-56.15	6.7	13.85	Vertical	-49.00	-13.00	36.00	180.00
10	17500.00	-48.25	6.8	14.25	Vertical	-40.80	-13.00	27.80	45.00

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

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

LTE Band 4 QPSK 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	3435.00	-64.25	2.6	10.15	Vertical	-56.70	-13.00	43.70	225.00
3	5152.50	-66.15	2.4	11.35	Vertical	-57.20	-13.00	44.20	45.00
4	6870.00	-58.75	4.5	10.85	Vertical	-52.40	-13.00	39.40	90.00
5	8587.50	-58.35	5.1	11.35	Vertical	-52.10	-13.00	39.10	90.00
6	10305.00	-60.05	5.3	11.95	Vertical	-53.40	-13.00	40.40	135.00
7	12022.50	-57.85	5.5	13.55	Vertical	-49.80	-13.00	36.80	90.00
8	13740.00	-58.15	6.3	13.75	Vertical	-50.70	-13.00	37.70	45.00
9	15457.50	-54.35	6.7	13.85	Vertical	-47.20	-13.00	34.20	180.00
10	17175.00	-50.65	6.8	14.25	Vertical	-43.20	-13.00	30.20	0.00

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

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

LTE Band 4 QPSK 15MHz CH-Middle,

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3421.40	-64.85	2.6	10.75	Vertical	-56.70	-13.00	43.70	45.00
3	5132.10	-66.65	2.4	11.05	Vertical	-58.00	-13.00	45.00	45.00
4	6842.80	-59.95	4.5	11.15	Vertical	-53.30	-13.00	40.30	90.00
5	8553.50	-58.95	5.1	11.35	Vertical	-52.70	-13.00	39.70	90.00
6	10264.20	-60.15	5.3	11.95	Vertical	-53.50	-13.00	40.50	135.00
7	11974.90	-58.55	5.5	13.55	Vertical	-50.50	-13.00	37.50	90.00
8	13685.60	-58.25	6.3	13.75	Vertical	-50.80	-13.00	37.80	45.00
9	15396.30	-54.45	6.7	13.85	Vertical	-47.30	-13.00	34.30	180.00
10	17107.00	-51.45	6.8	14.25	Vertical	-44.00	-13.00	31.00	0.00

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

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

LTE Band 4 QPSK 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	3495.00	-64.75	2.6	10.15	Vertical	-57.20	-13.00	44.20	45.00
3	5242.50	-68.45	2.4	11.05	Vertical	-59.80	-13.00	46.80	180.00
4	6990.00	-60.65	4.5	11.15	Vertical	-54.00	-13.00	41.00	90.00
5	8737.50	-59.95	5.1	11.35	Vertical	-53.70	-13.00	40.70	225.00
6	10485.00	-61.65	5.3	11.95	Vertical	-55.00	-13.00	42.00	135.00
7	12232.50	-59.45	5.5	13.55	Vertical	-51.40	-13.00	38.40	90.00
8	13980.00	-59.75	6.3	13.75	Vertical	-52.30	-13.00	39.30	45.00
9	15727.50	-56.25	6.7	13.85	Vertical	-49.10	-13.00	36.10	180.00
10	17475.00	-51.85	6.8	14.25	Vertical	-44.40	-13.00	31.40	45.00

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

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

LTE Band 4 QPSK 20MHz CH-Low,

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3440.00	-64.75	2.6	10.15	Vertical	-57.20	-13.00	44.20	45.00
3	5160.00	-65.05	2.4	11.35	Vertical	-56.10	-13.00	43.10	45.00
4	6880.00	-60.15	4.5	10.85	Vertical	-53.80	-13.00	40.80	270.00
5	8600.00	-58.55	5.1	11.35	Vertical	-52.30	-13.00	39.30	90.00
6	10320.00	-60.85	5.3	11.95	Vertical	-54.20	-13.00	41.20	135.00
7	12040.00	-63.15	5.5	13.55	Vertical	-55.10	-13.00	42.10	90.00
8	13760.00	-63.15	6.3	13.75	Vertical	-55.70	-13.00	42.70	45.00
9	15480.00	-59.55	6.7	13.85	Vertical	-52.40	-13.00	39.40	180.00
10	17200.00	-52.55	6.8	14.25	Vertical	-45.10	-13.00	32.10	45.00

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

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

LTE Band 4 QPSK 20MHz CH-Middle,

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3421.40	-65.75	2.6	10.75	Vertical	-57.60	-13.00	44.60	270.00
3	5132.10	-65.45	2.4	11.05	Vertical	-56.80	-13.00	43.80	45.00
4	6842.80	-61.25	4.5	11.15	Vertical	-54.60	-13.00	41.60	90.00
5	8553.50	-58.75	5.1	11.35	Vertical	-52.50	-13.00	39.50	90.00
6	10264.20	-60.95	5.3	11.95	Vertical	-54.30	-13.00	41.30	135.00
7	11974.90	-63.95	5.5	13.55	Vertical	-55.90	-13.00	42.90	90.00
8	13685.60	-64.15	6.3	13.75	Vertical	-56.70	-13.00	43.70	45.00
9	15396.30	-59.85	6.7	13.85	Vertical	-52.70	-13.00	39.70	180.00
10	17107.00	-53.05	6.8	14.25	Vertical	-45.60	-13.00	32.60	45.00

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

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



LTE Band 4 QPSK 20MHz CH-High,

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	3490.00	-65.75	2.6	10.15	Vertical	-58.20	-13.00	45.20	45.00
3	5235.00	-65.45	2.4	11.05	Vertical	-56.80	-13.00	43.80	90.00
4	6980.00	-61.85	4.5	11.15	Vertical	-55.20	-13.00	42.20	45.00
5	8725.00	-59.25	5.1	11.35	Vertical	-53.00	-13.00	40.00	90.00
6	10470.00	-62.15	5.3	11.95	Vertical	-55.50	-13.00	42.50	135.00
7	12215.00	-64.25	5.5	13.55	Vertical	-56.20	-13.00	43.20	90.00
8	13960.00	-65.05	6.3	13.75	Vertical	-57.60	-13.00	44.60	45.00
9	15705.00	-60.65	6.7	13.85	Vertical	-53.50	-13.00	40.50	180.00
10	17450.00	-54.05	6.8	14.25	Vertical	-46.60	-13.00	33.60	45.00

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

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

LTE Band 7 QPSK 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	5005.00	-16.89	-31.7	-63.01	Vertical	-48.20	-25.00	23.20	45.00
3	7507.50	-21.00	-29.2	-61.40	Vertical	-53.20	-25.00	28.20	90.00
4	10010.00	-10.93	-24.9	-59.40	Vertical	-45.43	-25.00	20.43	270.00
5	12512.50	-16.87	-24.2	-59.63	Vertical	-52.30	-25.00	27.30	135.00
6	15015.00	-16.22	-22.5	-58.38	Vertical	-52.10	-25.00	27.10	90.00
7	17517.50	-8.35	-20.5	-57.45	Vertical	-45.30	-25.00	20.30	45.00
8	20020.00	-67.26	-50.7	-65.74	Vertical	-82.30	-25.00	57.30	180.00
9	22522.50	-69.65	-52.2	-65.95	Vertical	-83.40	-25.00	58.40	45.00
10	25025.00	-75.14	-51.3	-65.56	Vertical	-89.40	-25.00	64.40	0.00

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

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



LTE Band 7 QPSK 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	5070.0	-16.43	-31.2	-63.07	Vertical	-48.30	-25.00	23.30	45
3	7605.0	-21.55	-29.0	-61.25	Vertical	-53.80	-25.00	28.80	90
4	10140.0	-10.85	-24.3	-59.45	Vertical	-46.00	-25.00	21.00	90
5	12675.0	-17.34	-24.5	-59.66	Vertical	-52.50	-25.00	27.50	135
6	15210.0	-16.14	-22.3	-58.36	Vertical	-52.20	-25.00	27.20	90
7	17745.0	-9.32	-21.7	-58.08	Vertical	-45.70	-25.00	20.70	45
8	20280.0	-68.24	-51.5	-66.16	Vertical	-82.90	-25.00	57.90	180
9	22815.0	-69.55	-51.2	-65.25	Vertical	-83.60	-25.00	58.60	45
10	25350.0	-75.25	-51.3	-65.85	Vertical	-89.80	-25.00	64.80	180

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

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

LTE Band 7 QPSK 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	5115.00	-17.25	-31.2	-63.25	Vertical	-49.30	-25.00	24.30	45.00
3	7672.50	-21.72	-28.5	-60.98	Vertical	-54.20	-25.00	29.20	90.00
4	10230.00	-14.93	-27.5	-59.57	Vertical	-47.00	-25.00	22.00	0.00
5	12787.50	-18.12	-24.7	-59.68	Vertical	-53.10	-25.00	28.10	135.00
6	15345.00	-18.04	-23.4	-58.06	Vertical	-52.70	-25.00	27.70	90.00
7	17902.50	-7.70	-19.2	-57.80	Vertical	-46.30	-25.00	21.30	45.00
8	20460.00	-68.72	-51.1	-65.58	Vertical	-83.20	-25.00	58.20	180.00
9	23017.50	-69.55	-51.5	-65.65	Vertical	-83.70	-25.00	58.70	45.00
10	25575.00	-76.24	-50.9	-65.66	Vertical	-91.00	-25.00	66.00	180.00

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

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



LTE Band 7 QPSK 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	5010.00	-22.99	-31.7	-63.01	Vertical	-54.30	-25.00	29.30	45.00
3	7515.00	-21.00	-29.2	-61.40	Vertical	-53.20	-25.00	28.20	90.00
4	10020.00	-21.80	-24.9	-59.40	Vertical	-56.30	-25.00	31.30	90.00
5	12525.00	-11.87	-24.2	-59.63	Vertical	-47.30	-25.00	22.30	135.00
6	15030.00	-12.62	-22.5	-58.38	Vertical	-48.50	-25.00	23.50	90.00
7	17535.00	-5.35	-20.5	-57.45	Vertical	-42.30	-25.00	17.30	45.00
8	20040.00	-66.26	-50.7	-65.74	Vertical	-81.30	-25.00	56.30	180.00
9	22545.00	-68.35	-52.2	-65.95	Vertical	-82.10	-25.00	57.10	45.00
10	25050.00	-66.24	-51.3	-65.56	Vertical	-80.50	-25.00	55.50	270.00

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

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

LTE Band 7 QPSK 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	5070.0	-22.43	-31.2	-63.07	Vertical	-54.30	-25.00	29.30	45
3	7605.0	-20.95	-29.0	-61.25	Vertical	-53.20	-25.00	28.20	90
4	10140.0	-22.15	-24.3	-59.45	Vertical	-57.30	-25.00	32.30	180
5	12675.0	-12.14	-24.5	-59.66	Vertical	-47.30	-25.00	22.30	135
6	15210.0	-13.34	-22.3	-58.36	Vertical	-49.40	-25.00	24.40	90
7	17745.0	-6.32	-21.7	-58.08	Vertical	-42.70	-25.00	17.70	45
8	20280.0	-67.04	-51.5	-66.16	Vertical	-81.70	-25.00	56.70	180
9	22815.0	-68.75	-51.2	-65.25	Vertical	-82.80	-25.00	57.80	45
10	25350.0	-66.65	-51.3	-65.85	Vertical	-81.20	-25.00	56.20	45

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

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



LTE Band 7 QPSK 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	5120.00	-23.65	-31.2	-63.25	Vertical	-55.70	-25.00	30.70	45.00
3	7680.00	-21.02	-28.5	-60.98	Vertical	-53.50	-25.00	28.50	90.00
4	10240.00	-25.33	-27.5	-59.57	Vertical	-57.40	-25.00	32.40	90.00
5	12800.00	-12.92	-24.7	-59.68	Vertical	-47.90	-25.00	22.90	135.00
6	15360.00	-14.94	-23.4	-58.06	Vertical	-49.60	-25.00	24.60	90.00
7	17920.00	-5.00	-19.2	-57.80	Vertical	-43.60	-25.00	18.60	45.00
8	20480.00	-68.22	-51.1	-65.58	Vertical	-82.70	-25.00	57.70	180.00
9	23040.00	-69.65	-51.5	-65.65	Vertical	-83.80	-25.00	58.80	45.00
10	25600.00	-66.34	-50.9	-65.66	Vertical	-81.10	-25.00	56.10	45.00

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

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

LTE Band 7 QPSK 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	5015.00	-22.39	-31.7	-63.01	Vertical	-53.70	-25.00	28.70	45.00
3	7522.50	-21.50	-29.2	-61.40	Vertical	-53.70	-25.00	28.70	90.00
4	10030.00	-21.60	-24.9	-59.40	Vertical	-56.10	-25.00	31.10	90.00
5	12537.50	-11.07	-24.2	-59.63	Vertical	-46.50	-25.00	21.50	135.00
6	15045.00	-12.22	-22.5	-58.38	Vertical	-48.10	-25.00	23.10	90.00
7	17552.50	-6.25	-20.5	-57.45	Vertical	-43.20	-25.00	18.20	45.00
8	20060.00	-65.66	-50.7	-65.74	Vertical	-80.70	-25.00	55.70	180.00
9	22567.50	-68.05	-52.2	-65.95	Vertical	-81.80	-25.00	56.80	45.00
10	25075.00	-66.64	-51.3	-65.56	Vertical	-80.90	-25.00	55.90	45.00

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

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

LTE Band 7 QPSK 15MHz CH-Middle,

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5070.00	-22.03	-31.2	-63.07	Vertical	-53.90	-25.00	28.90	45
3	7605.00	-21.45	-29.0	-61.25	Vertical	-53.70	-25.00	28.70	90
4	10140.00	-21.05	-24.3	-59.45	Vertical	-56.20	-25.00	31.20	90
5	12675.00	-11.84	-24.5	-59.66	Vertical	-47.00	-25.00	22.00	135
6	15210.00	-12.94	-22.3	-58.36	Vertical	-49.00	-25.00	24.00	90
7	17745.00	-7.52	-21.7	-58.08	Vertical	-43.90	-25.00	18.90	45
8	20280.00	-66.64	-51.5	-66.16	Vertical	-81.30	-25.00	56.30	180
9	22815.00	-67.85	-51.2	-65.25	Vertical	-81.90	-25.00	56.90	45
10	25350.00	-66.95	-51.3	-65.85	Vertical	-81.50	-25.00	56.50	45

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

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

LTE Band 7 QPSK 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	5125.00	-22.75	-31.2	-63.25	Vertical	-54.80	-25.00	29.80	45.00
3	7687.50	-21.52	-28.5	-60.98	Vertical	-54.00	-25.00	29.00	90.00
4	10250.00	-24.53	-27.5	-59.57	Vertical	-56.60	-25.00	31.60	270.00
5	12812.50	-12.62	-24.7	-59.68	Vertical	-47.60	-25.00	22.60	135.00
6	15375.00	-14.64	-23.4	-58.06	Vertical	-49.30	-25.00	24.30	90.00
7	17937.50	-5.50	-19.2	-57.80	Vertical	-44.10	-25.00	19.10	45.00
8	20500.00	-67.32	-51.1	-65.58	Vertical	-81.80	-25.00	56.80	180.00
9	23062.50	-69.15	-51.5	-65.65	Vertical	-83.30	-25.00	58.30	45.00
10	25625.00	-67.04	-50.9	-65.66	Vertical	-81.80	-25.00	56.80	0.00

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

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



LTE Band 7 QPSK 20MHz CH-Low,

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5020.00	-22.79	-31.7	-63.01	Vertical	-54.10	-25.00	29.10	45.00
3	7530.00	-21.20	-29.2	-61.40	Vertical	-53.40	-25.00	28.40	90.00
4	10040.00	-22.60	-24.9	-59.40	Vertical	-57.10	-25.00	32.10	90.00
5	12550.00	-11.67	-24.2	-59.63	Vertical	-47.10	-25.00	22.10	135.00
6	15060.00	-11.72	-22.5	-58.38	Vertical	-47.60	-25.00	22.60	90.00
7	17570.00	-5.35	-20.5	-57.45	Vertical	-42.30	-25.00	17.30	45.00
8	20080.00	-66.06	-50.7	-65.74	Vertical	-81.10	-25.00	56.10	180.00
9	22590.00	-66.95	-52.2	-65.95	Vertical	-80.70	-25.00	55.70	0.00
10	25100.00	-67.04	-51.3	-65.56	Vertical	-81.30	-25.00	56.30	0.00

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

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

LTE Band 7 QPSK 20MHz CH-Middle,

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5070.0	-22.63	-31.2	-63.07	Vertical	-54.50	-25.00	29.50	45
3	7605.0	-21.45	-29.0	-61.25	Vertical	-53.70	-25.00	28.70	90
4	10140.0	-22.05	-24.3	-59.45	Vertical	-57.20	-25.00	32.20	90
5	12675.0	-12.84	-24.5	-59.66	Vertical	-48.00	-25.00	23.00	135
6	15210.0	-11.84	-22.3	-58.36	Vertical	-47.90	-25.00	22.90	90
7	17745.0	-6.02	-21.7	-58.08	Vertical	-42.40	-25.00	17.40	45
8	20280.0	-67.14	-51.5	-66.16	Vertical	-81.80	-25.00	56.80	180
9	22815.0	-66.95	-51.2	-65.25	Vertical	-81.00	-25.00	56.00	45
10	25350.0	-67.75	-51.3	-65.85	Vertical	-82.30	-25.00	57.30	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 7 QPSK 20MHz CH-High,

Harmonic	Frequency (MHz)	SG (dBm)	Cable Loss (dB)	Gain (dBi)	Antenna Polarization	ERP Level (dBm)	Limit (dBm)	Margin (dB)	Azimuth (deg)
2	5120.00	-23.05	-31.2	-63.25	Vertical	-55.10	-25.00	30.10	45.00
3	7680.00	-22.02	-28.5	-60.98	Vertical	-54.50	-25.00	29.50	90.00
4	10240.00	-25.43	-27.5	-59.57	Vertical	-57.50	-25.00	32.50	270.00
5	12800.00	-12.32	-24.7	-59.68	Vertical	-47.30	-25.00	22.30	135.00
6	15360.00	-14.24	-23.4	-58.06	Vertical	-48.90	-25.00	23.90	90.00
7	17920.00	-4.40	-19.2	-57.80	Vertical	-43.00	-25.00	18.00	45.00
8	20480.00	-67.62	-51.1	-65.58	Vertical	-82.10	-25.00	57.10	180.00
9	23040.00	-67.35	-51.5	-65.65	Vertical	-81.50	-25.00	56.50	45.00
10	25600.00	-67.94	-50.9	-65.66	Vertical	-82.70	-25.00	57.70	0.00

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

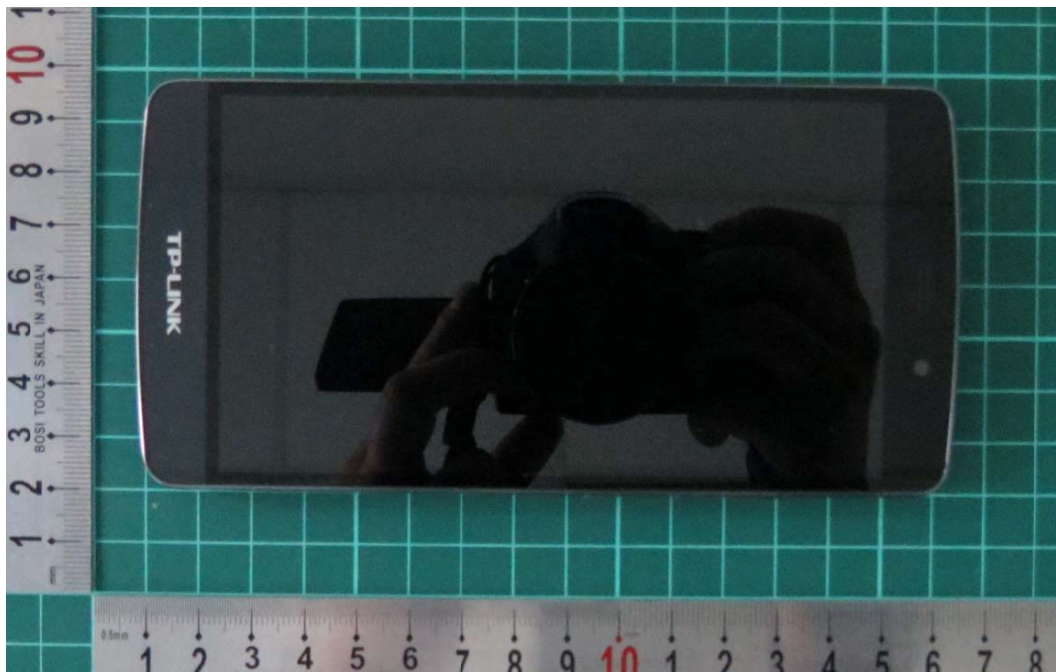
2. The worst emission was found in the antenna is vertical position.

5 Main Test Equipment

Name of Equipment	Type/Model	Manufacturer	Serial Number	Last Cal.	Cal. Due Date
Base Station Simulator	CMW500	R&S	113645	2015-05-22	2016-05-21
Power Splitter	SHX-GF2-2-13	Hua Xiang	10120101	NA	NA
Spectrum Analyzer	E4445A	Agilent	MY46181146	2015-05-22	2016-05-21
Universal Radio Communication Tester	E5515C	Agilent	MY48367192	2015-12-17	2016-12-16
Spectrum Analyzer	N9010A	Agilent	MY47191109	2015-05-22	2016-05-21
Signal Analyzer	FSV30	R&S	100815	2015-12-17	2016-12-16
Signal generator	SMB 100A	R&S	102594	2015-05-06	2016-05-05
EMI Test Receiver	ESCI	R&S	100948	2015-05-25	2016-05-24
Trilog Antenna	VUBL 9163	SCHWARZBECK	9163-201	2013-11-25	2016-11-24
Horn Antenna	HF907	R&S	100126	2015-07-01	2018-06-30
Climatic Chamber	PT-30B	Re Ce	20101891	2015-07-18	2018-07-17
RF Cable	SMA 15cm	Agilent	0001	2016-02-08	2016-04-08

ANNEX A: The EUT Appearance and Test Configuration

A.1 EUT Appearance



Front Side



Back Side

a: EUT

Picture 1 Constituents of EUT

A.2 Test Setup



Picture 2 Radiated Spurious Emissions Test Setup