

CFR 47 FCC PART 02
CFR 47 FCC PART 22 H
CFR 47 FCC PART 24 E
CFR 47 FCC PART 27
CFR 47 FCC PART 90S

TEST REPORT

For

LTE MODULE

MODEL NUMBER: EG25-G

REPORT NUMBER: 4791353869-RF-3

ISSUE DATE: Sep. 2, 2024

FCC ID: 2A46G-EG25-G

Prepared for

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Prepared by

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	Sep. 2, 2024	Initial Issue	

Note:

- 1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
2. The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 22 H >< CFR 47 FCC PART 24 E>< CFR 47 FCC PART 27 > <CFR 47 FCC PART 90> when < Simple Acceptance > decision rule is applied.
3. This test report includes radiated test results and conducted power test results due to the change of GSM/WCDMA/LTE antenna from the original model (FCC ID: 2A46G-EG25-G).

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Guangzhou Xaircraft Technology CO., LTD
Address: Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity, Guangdong, P.R. 510663 China

Manufacturer Information

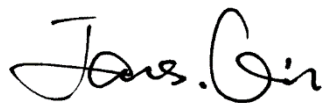
Company Name: Guangzhou Xaircraft Technology CO., LTD
Address: Block C, No.115, Gaopu Road, Tianhe District, GuangzhouCity, Guangdong, P.R. 510663 China

EUT Information

EUT Name: LTE MODULE
Model: EG25-G
Sample Received Date: Jun. 13, 2024
Sample Status: Normal
Sample ID: 7284012
Date of Tested: Jun. 17, 2024 to Aug. 9, 2024

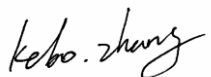
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 02	PASS
CFR 47 FCC PART 22 H	PASS
CFR 47 FCC PART 24 E	PASS
CFR 47 FCC PART 27	PASS
CFR 47 FCC PART 90S	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.26-2015, 971168 D01 Power Meas License Digital Systems v03r01, 971168 D02 Misc Rev Approv License Devices v02r01, 412172 D01 v01r01 Determining ERP and EIRP, CFR 47 FCC Part 2, Part 22 H, Part 24 E, Part 27, Part 90S.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046. VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission (Included Fundamental Emission) (1 GHz to 40 GHz)	5.78 dB (1 GHz-18 GHz)
	5.23dB (18 GHz-26 GHz)
	5.64 dB (26 GHz-40 GHz)
Bandwidth	1.1 %
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.	

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	LTE MODULE
Model	EG25-G

5.2. TEST CHANNEL CONFIGURATION

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 2	Low Range	1.4	18607	1850.7	607	1930.7
		3	18615	1851.5	615	1931.5
		5	18625	1852.5	625	1932.5
		10	18650	1855	650	1935
		15	18675	1857.5	675	1937.5
		20	18700	1860	700	1940
	Mid Range	1.4/3/5/10/15/20	18900	1880	900	1960
	High Range	1.4	19193	1909.3	1193	1989.3
		3	19185	1908.5	1185	1988.5
		5	19175	1907.5	1175	1987.5
		10	19150	1905	1150	1985
		15	19125	1902.5	1125	1982.5
		20	19100	1900	1100	1980
Band 4	Low Range	1.4	19957	1710.7	1957	2110.7
		3	19965	1711.5	1965	2111.5
		5	19975	1712.5	1975	2112.5
		10	20000	1715	2000	2115
		15	20025	1717.5	2025	2117.5
		20	20050	1720	2050	2120
	Mid Range	1.4/3/5/10/15/20	20175	1732.5	2175	2132.5
	High Range	1.4	20393	1754.3	2393	2154.3
		3	20385	1753.5	2385	2153.5
		5	20375	1752.5	2375	2152.5
		10	20350	1750	2350	2150
		15	20325	1747.5	2325	2147.5
		20	20300	1745	2300	2145
Band 5	Low Range	1.4	20407	824.7	2407	869.7
		3	20415	825.5	2415	870.5
		5	20425	826.5	2425	871.5
		10	20450	829	2450	874
	Mid Range	1.4/3/5/10	20525	836.5	2525	881.5
	High Range	1.4	20643	848.3	2643	893.3
		3	20635	847.5	2635	892.5
		5	20625	846.5	2625	891.5
		10	20600	844	2600	889
	Low Range	5	20775	2502.5	2775	2622.5

Band 7		10	20800	2505	2800	2625	
		15	20825	2507.5	2825	2627.5	
		20	20850	2510	2850	2630	
	Mid Range	5/10/15/20	21100	2535	3100	2655	
	High Range	5	21425	2567.5	3425	2687.5	
		10	21400	2565	3400	2685	
		15	21375	2562.5	3375	2682.5	
		20	21350	2560	3350	2680	
Band 12		Low Range	1.4	23017	699.7	5017	729.7
	3		23025	700.5	5025	730.5	
	5		23035	701.5	5035	731.5	
	10		23060	704	5060	734	
	Mid Range	1.4/3/5 /10	23095	707.5	5095	737.5	
	High Range	1.4	23173	715.3	5173	745.3	
		3	23165	714.5	5165	744.5	
		5	23155	713.5	5155	743.5	
		10	23130	711	5130	741	
	Band 13	Low Range	5	23205	779.5	5205	748.5
			10	23230	782	5230	751
Mid Range		5/10	23230	782	5230	751	
High Range		5	23255	784.5	5255	753.5	
		10	23230	782	5230	751	
Band 25	Low Range	1.4	26047	1850.7	8047	1930.7	
		3	26055	1851.5	8055	1931.5	
		5	26065	1852.5	8065	1932.5	
		10	26090	1855	8090	1935	
		15	26115	1857.5	8115	1937.5	
		20	26140	1860	8140	1940	
	Mid Range	1.4/3/5/10/15/20	26365	1882.5	8365	1962.5	
	High Range	1.4	26683	1914.3	8683	1994.3	
		3	26675	1913.5	8675	1993.5	
		5	26665	1912.5	8665	1992.5	
		10	26640	1910	8640	1990	
		15	26615	1907.5	8615	1987.5	
		20	26590	1905	8590	1985	

Mode	TX/RX	Low	Middle	High
LTE Band 26 (814-824 MHz)	TX (1.4 MHz)	26697	26740	26783
		814.7 MHz	819.0 MHz	823.3 MHz
	TX (3 MHz)	26705	26740	26775
		815.5 MHz	819.0 MHz	822.5 MHz
	TX (5 MHz)	26715	26740	26765
		816.5 MHz	819.0 MHz	821.5 MHz
	TX (10 MHz)	/	26740	/
		/	819.0 MHz	/

Mode	TX/RX	Low	Middle	High
LTE Band 26 (824-849 MHz)	TX (1.4 MHz)	26797	26915	27033
		824.7 MHz	836.5 MHz	848.3 MHz
	TX (3 MHz)	26805	26915	27025
		825.5 MHz	836.5 MHz	847.5 MHz
	TX (5 MHz)	26815	26915	27015
		826.5 MHz	836.5 MHz	846.5 MHz
	TX (10 MHz)	26840	26915	26990
		829.0 MHz	836.5 MHz	844.0 MHz
	TX (15 MHz)	26865	26915	26965
		831.5 MHz	836.5 MHz	841.5 MHz

Band	Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Band 38	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Mid Range	5/10/15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
		20	38150	2610
	Band 41	5	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506
		5/10/15/20	40620	2593
		5	41565	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680

5.3. MAXIMUM AVERAGE OUTPUT POWER

Note1: The actual measurement is conducted power, the regulations require the measurement of EIRP/ERP, and Section 5.3 is the result after conversion.

Note2: All the power data was confirmed to be within the expected manufacturing tolerances of the original granted power prior to performing any tests in test reports.

LTE Band 2							
Part 24							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		3.94					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1909.3	21.19	0.326	1.084	1M08G7D
	16QAM			20.82	0.299	1.083	1M08W7D
3	QPSK	1851.5	1908.5	21.15	0.323	2.684	2M68G7D
	16QAM			20.77	0.296	2.685	2M69W7D
5	QPSK	1852.5	1907.5	21.13	0.321	4.486	4M49G7D
	16QAM			20.73	0.293	4.484	4M48W7D
10	QPSK	1855.0	1905.0	20.97	0.310	8.946	8M95G7D
	16QAM			20.72	0.292	8.947	8M95W7D
15	QPSK	1857.5	1902.5	21.25	0.330	13.421	13M42G7D
	16QAM			20.74	0.294	13.42	13M42W7D
20	QPSK	1860.0	1900.0	21.12	0.321	17.95	17M95G7D
	16QAM			20.83	0.300	17.946	17M95W7D

LTE Band 4							
Part 27							
EIRP Limit(W)		1.0					
Antenna Gain (dBi)		3.26					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1710.7	1754.3	21.25	0.282	1.093	1M09G7D
	16QAM			20.60	0.243	1.09	1M09W7D
3	QPSK	1711.5	1753.5	21.22	0.281	2.695	2M70G7D
	16QAM			20.53	0.239	2.692	2M69W7D
5	QPSK	1712.5	1752.5	21.26	0.283	4.498	4M50G7D
	16QAM			20.53	0.239	4.501	4M50W7D
10	QPSK	1715.0	1750.0	21.23	0.281	8.95	8M95G7D
	16QAM			20.59	0.243	8.944	8M94W7D
15	QPSK	1717.5	1747.5	21.20	0.279	13.421	13M42G7D
	16QAM			20.57	0.242	13.408	13M41W7D
20	QPSK	1720.0	1745.0	21.28	0.284	17.92	17M92G7D
	16QAM			20.50	0.238	17.904	17M90W7D

LTE Band 5							
Part 22 / RSS-132							
ERP Limit(W)		7.0					
Antenna Gain (dBi)		4.01					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	824.7	848.3	21.48	0.216	1.088	1M09G7D
	16QAM			20.44	0.170	1.088	1M09W7D
3	QPSK	825.5	847.5	21.38	0.211	2.692	2M70G7D
	16QAM			20.72	0.181	2.69	2M70W7D
5	QPSK	826.5	846.5	21.45	0.214	4.497	4M50G7D
	16QAM			20.47	0.171	4.506	4M50W7D
10	QPSK	829.0	844.0	21.38	0.211	8.956	8M96G7D
	16QAM			20.60	0.176	8.949	8M95W7D

LTE Band 7							
Part 27 / RSS-199							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		3.40					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2502.5	2567.5	20.15	0.226	4.496	4M50G7D
	16QAM			19.47	0.194	4.504	4M50W7D
10	QPSK	2505.0	2565.0	20.03	0.220	8.963	8M96G7D
	16QAM			19.42	0.191	8.951	8M95W7D
15	QPSK	2507.5	2562.5	20.07	0.222	13.449	13M45G7D
	16QAM			19.45	0.193	13.433	13M43W7D
20	QPSK	2510.0	2560.0	20.11	0.224	17.975	17M98G7D
	16QAM			19.33	0.187	17.983	17M98W7D

LTE Band 12							
Part 27 / RSS-130							
ERP Limit(W)		3.0					
Antenna Gain (dBi)		2.65					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	699.7	715.3	22.89	0.218	1.094	1M09G7W
	16QAM			21.72	0.167	1.091	1M09D7W
3	QPSK	700.5	714.5	22.79	0.213	2.697	2M70G7W
	16QAM			22.10	0.182	2.691	2M69D7W
5	QPSK	701.5	713.5	22.67	0.207	4.476	4M48G7W
	16QAM			22.11	0.182	4.496	4M50D7W
10	QPSK	704.0	711.0	22.79	0.213	8.931	8M93G7W
	16QAM			22.07	0.181	8.931	8M93D7W

LTE Band 13							
Part 27 / RSS-130							
ERP Limit(W)		3.0					
Antenna Gain (dBi)		4.01					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	779.5	784.5	23.78	0.366	4.476	4M48G7W
	16QAM			23.13	0.316	4.496	4M50D7W
10	QPSK	782.0	782.0	23.76	0.365	8.911	8M91G7W
	16QAM			23.05	0.310	8.911	8M91D7W

LTE Band 25							
Part 24 / RSS-133							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		3.94					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1914.3	20.91	0.305	1.088	1M09G7D
	16QAM			20.21	0.260	1.091	1M09W7D
3	QPSK	1851.5	1913.5	20.88	0.303	2.695	2M70G7D
	16QAM			20.42	0.273	2.691	2M69W7D
5	QPSK	1852.5	1912.5	20.89	0.304	4.494	4M49G7D
	16QAM			20.32	0.267	4.506	4M51W7D
10	QPSK	1855.0	1910.0	20.75	0.294	8.965	8M97G7D
	16QAM			20.37	0.270	8.956	8M96W7D
15	QPSK	1857.5	1907.5	20.89	0.304	13.464	13M47G7D
	16QAM			20.24	0.262	13.425	13M43W7D
20	QPSK	1860.0	1905.0	20.79	0.297	17.971	17M97G7D
	16QAM			20.30	0.265	17.973	17M97W7D

LTE Band 26							
Part 90S							
Conducted Limit(W)		100.0					
Antenna Gain (dBi)		4.01					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	Conducted Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	814.7	823.3	21.91	0.155	1.09	1M09G7D
	16QAM			21.29	0.135	1.09	1M09W7D
3	QPSK	815.5	822.5	21.91	0.155	2.694	2M70G7D
	16QAM			21.22	0.132	2.69	2M70W7D
5	QPSK	816.5	821.5	21.96	0.157	4.495	4M50G7D
	16QAM			21.21	0.132	4.506	4M51W7D
10	QPSK	819.0	819.0	21.91	0.155	8.978	8M98G7D
	16QAM			21.24	0.133	8.972	8M96W7D

LTE Band 26							
Part 22 / RSS-132							
ERP Limit(W)		7.0					
Antenna Gain (dBi)		4.01					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	824.7	848.3	21.64	0.224	4.496	4M50G7D
	16QAM			21.24	0.204	4.488	4M49W7D
3	QPSK	825.5	847.5	21.57	0.220	8.957	8M96G7D
	16QAM			21.36	0.210	8.946	8M95W7D
5	QPSK	826.5	846.5	21.70	0.227	13.431	13M43G7D
	16QAM			21.12	0.199	13.418	13M42W7D
10	QPSK	829.0	844.0	21.56	0.220	17.94	17M94G7D
	16QAM			21.29	0.207	17.93	17M93W7D
15	QPSK	831.5	841.5	21.58	0.221	4.496	4M50G7D
	16QAM			21.22	0.203	4.488	4M49W7D

LTE Band 38							
Part 27 / RSS-199							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		3.44					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2572.5	2617.5	20.60	0.254	4.496	4M50G7D
	16QAM			19.98	0.220	4.488	4M49W7D
10	QPSK	2575.0	2615.0	20.58	0.252	8.957	8M96G7D
	16QAM			20.11	0.226	8.946	8M95W7D
15	QPSK	2577.5	2612.5	20.70	0.259	13.431	13M43G7D
	16QAM			20.09	0.225	13.418	13M42W7D
20	QPSK	2580.0	2610.0	20.69	0.259	17.94	17M94G7D
	16QAM			20.10	0.226	17.93	17M93W7D

LTE Band 41							
Part 27 / RSS-199							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		3.44					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2498.5	2687.5	21.47	0.310	4.497	4M50G7D
	16QAM			20.50	0.248	4.503	4M50W7D
10	QPSK	2501.0	2685.0	21.50	0.312	8.96	8M96G7D
	16QAM			20.35	0.239	8.947	8M95W7D
15	QPSK	2503.5	2682.5	21.50	0.312	13.424	13M42G7D
	16QAM			20.39	0.242	13.412	13M41W7D
20	QPSK	2506.0	2680.0	21.48	0.310	17.939	17M94G7D
	16QAM			20.37	0.240	17.921	17M92W7D

5.4. WORST-CASE CONFIGURATION AND MODE

During all testing, EUT is in link mode with base station emulator at maximum power level. The worst-case scenario for all measurements is based on the average conducted output power measurement investigation results. Output power measurements were measured on QPSK, 16QAM. All testing was performed using QPSK and 16QAM modulations to represent the worst case.

The radiated spurious emissions measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT was investigated in three orthogonal orientations X,Y and Z. It was determined that X orientation was the worst-case.

Radiated spurious emissions were investigated below 30 MHz, 30 MHz - 1 GHz and above 1 GHz. There were no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz were tested the highest transmitting power channel and the worse configuration.

Test Items	Worst case test configuration			
Description	Modulation	Channel	Bandwidth (MHz)	RB Configuration
Radiated Spurious Emissions	QPSK	L, M, H	Maximum BW	RB size=1, RB Location=Low

The EUT have three kinds of antenna and have the same antenna type, only the worst-case antenna data record in this report.

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Antenna Type	Remark
Main	FPC	MAIN Antenna
Div.	FPC	DIV Antenna

Antenna	Band	Antenna Type	MAX Antenna Gain (dBi) Model: AN0827-FPC73BFK	MAX Antenna Gain (dBi) Model: K011
Main	LTE Band 2	FPC	3.26	3.94
	LTE Band 4	FPC	3.26	2.49
	LTE Band 5	FPC	2.74	4.01
	LTE Band 7	FPC	3.40	3.20
	LTE Band 12	FPC	1.22	2.65
	LTE Band 13	FPC	1.22	4.01
	LTE Band 25	FPC	3.26	3.94
	LTE Band 26	FPC	2.74	4.01
	LTE Band 38	FPC	3.40	3.44
	LTE Band 41	FPC	3.40	3.44

Note:

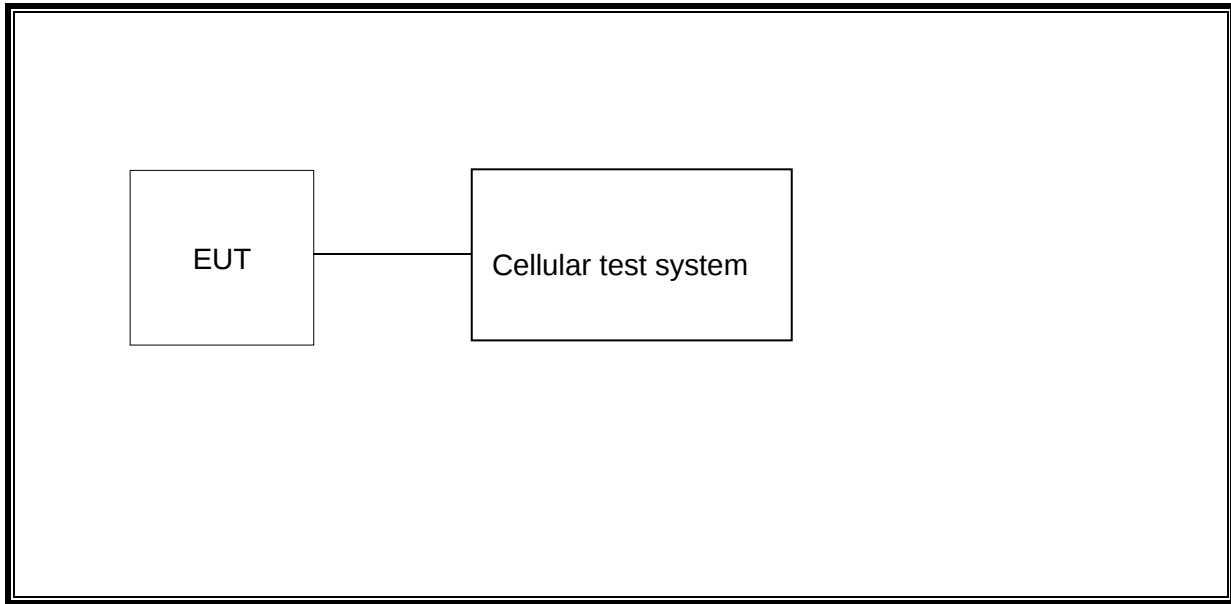
1. The value of the antenna gain was declared by customer.
2. There are two antenna manufacturers, the antenna model are different, only a pair of one of the two model is used at a time.

Band	Transmit and Receive Mode	Description
LTE Band 2	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 4	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 5	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 7	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 12	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 13	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 25	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 26	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 38	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.
LTE Band 41	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, Div. antenna can be used as receiving antenna.

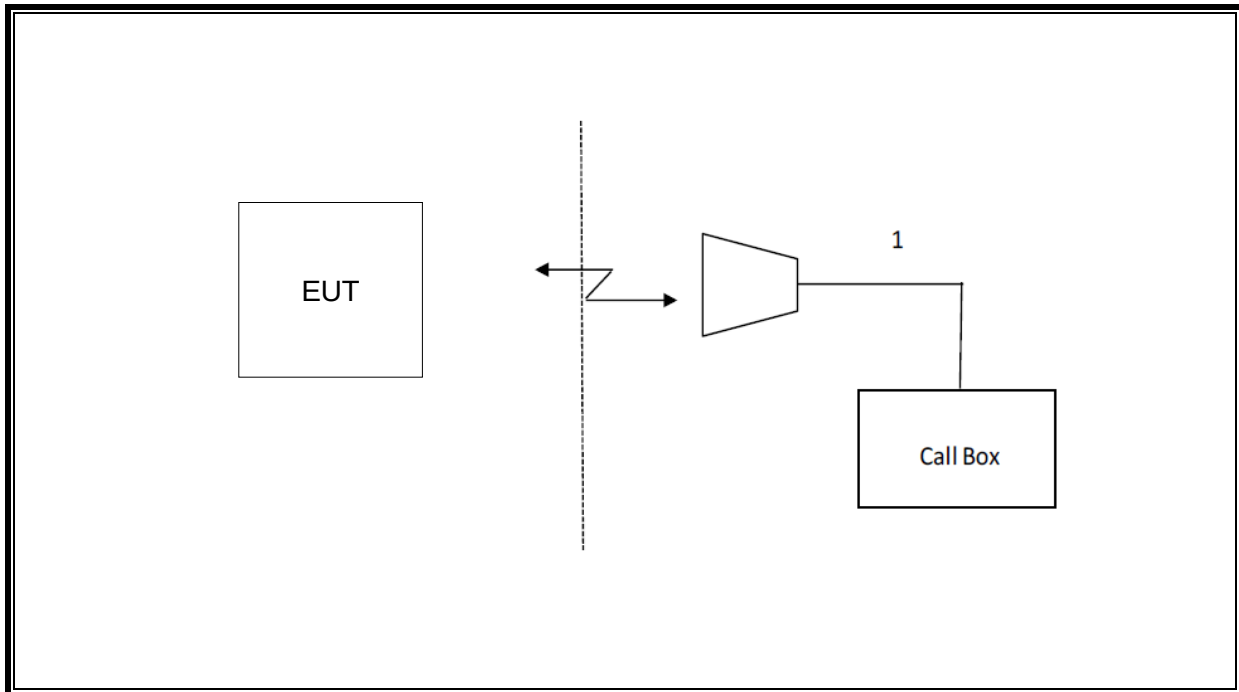
Note: The value of the antenna gain was declared by customer.

5.6. DESCRIPTION OF TEST SETUP

Conducted



Radiated



6. MEASURING INSTRUMENT AND SOFTWARE USED

Antenna Terminal Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	Spectrum Analyzer	R&S	FSV40	S422060001	Oct.12, 2023	Oct.11, 2024
☒	Wideband Radio Communication Tester	R&S	CMW500	155523	Oct.12, 2023	Oct.11, 2024
☒	DC Power Supply	Array	3662A	A1512015	Oct.12, 2023	Oct.11, 2024
Software						
Used	Description		Manufacturer	Name		Version
☒	Tonsend Cellular Test System		Tonsend	JS1120 RF Auto Test System		3.1.46
Radiated Test						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
☒	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Oct.12, 2023	Oct.11, 2024
☒	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	Aug.02, 2021	Aug.01, 2024
☒	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Jun. 28, 2024	Jun. 27, 2027
☒	Preamplifier	HP	8447D	2944A09099	Oct.12, 2023	Oct.11, 2024
☒	EMI Measurement Receiver	R&S	ESR26	101377	Oct.12, 2023	Oct.11, 2024
☒	Horn Antenna	TDK	HRN-0118	130939	April 29, 2022	April 30, 2025
☒	Horn Antenna	Schwarzbeck	BBHA9170	697	July 20, 2021	July 19, 2024
☒	Horn Antenna	Schwarzbeck	BBHA9170	856	Feb 28, 2022	Feb 28, 2025
☒	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Oct.12, 2023	Oct.11, 2024
☒	Preamplifier	TDK	PA-02-2	TRS-307-00003	Oct.12, 2023	Oct.11, 2024
☒	Loop antenna	Schwarzbeck	1519B	00008	Dec.14, 2021	Dec.13, 2024
☒	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Oct.12, 2023	Oct.11, 2024
Software						
Used	Description		Manufacturer	Name		Version
☒	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1

7. ANTENNA TERMINAL TEST RESULTS

Note: All the conducted test data transfer to the ERP/EIRP values, It comply with the limit requirement, Only the Conducted test data were showed in the test report.

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50, §90

LIMITS

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(c) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

27.50(c) Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

27.50(d) Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watts EIRP.

27.50(h) Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to ANSI C63.26:2015 and KDB 971168 D01 Section 5.6

$ERP/EIRP = P_{Meas} + GT - LC$

where:

ERP or EIRP = effective or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

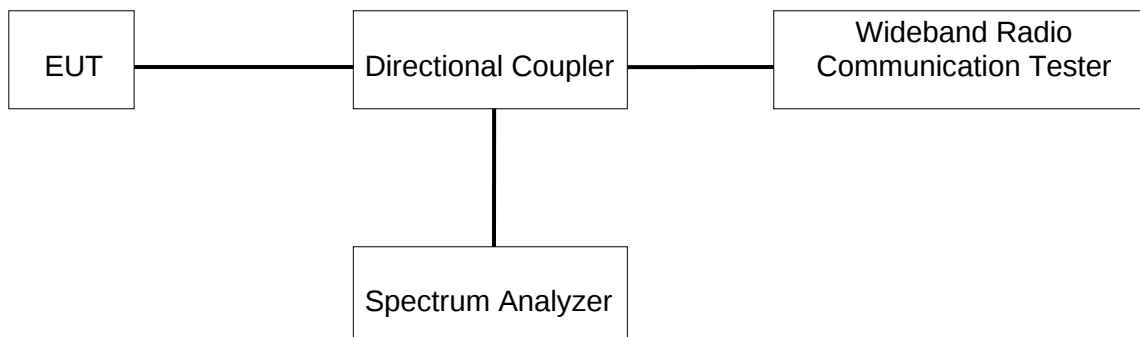
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB

The transmitter has a maximum radiated ERP / EIRP output powers as follows:

TEST SETUP



TEST ENVIRONMENT

Temperature	23.4°C	Relative Humidity	54.4%
Atmosphere Pressure	101kPa	Test Voltage	DC 24 V

RESULT

7.1.1. LTE Band 2

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				18607	18900	19193
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1850.70	1880.00	1909.30
1.4	QPSK	1	0	20.55	20.53	20.60
		1	2	21.02	21.19	20.76
		1	5	20.78	20.73	20.43
		3	0	20.59	20.63	20.79
		3	1	20.89	21.03	21.00
		3	3	20.57	20.62	20.37
		6	0	19.82	19.89	19.71
	16QAM	1	0	19.47	19.70	19.49
		1	2	19.84	19.66	19.47
		1	5	19.79	19.97	19.50
		3	0	19.72	20.18	19.54
		3	1	20.53	20.82	19.61
		3	3	20.06	20.16	19.12
		6	0	18.83	18.79	18.99
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				18615	18900	19185
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1851.50	1880.00	1908.50
3	QPSK	1	0	20.58	20.80	20.69
		1	8	20.90	21.15	20.77
		1	14	20.84	20.59	20.41
		8	0	19.58	20.00	19.74
		8	4	19.55	19.67	19.48
		8	7	19.99	19.77	19.66
		15	0	19.74	19.77	19.56
	16QAM	1	0	19.76	20.05	19.79
		1	8	20.48	20.77	19.53
		1	14	19.81	20.14	19.25
		8	0	18.71	18.83	18.86
		8	4	18.82	18.86	19.00
		8	7	19.08	18.59	18.54
		15	0	18.95	18.90	18.86
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				18625	18900	19175
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1852.50	1880.00	1907.50
5	QPSK	1	0	20.76	20.60	20.79
		1	12	20.95	21.13	20.72

		1	24	20.72	20.71	20.46
		12	0	19.78	19.83	19.69
		12	6	19.46	19.63	19.59
		12	13	20.00	19.80	19.42
		25	0	19.71	19.99	19.73
	16QAM	1	0	19.76	20.21	19.55
		1	12	20.47	20.73	19.49
		1	24	19.80	19.89	19.34
		12	0	18.55	18.71	18.95
		12	6	18.57	18.78	19.02
		12	13	18.89	18.76	18.58
		25	0	18.90	18.77	18.88
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				18650	18900	19150
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1855.00	1880.00	1905.00
10	QPSK	1	0	20.62	20.82	20.78
		1	24	20.91	20.97	20.80
		1	49	20.70	20.54	20.34
		25	0	19.72	20.00	19.68
		25	12	19.62	19.79	19.64
		25	25	19.86	19.67	19.53
		50	0	19.53	19.91	19.65
	16QAM	1	0	19.74	20.21	19.67
		1	24	20.38	20.72	19.70
		1	49	19.99	20.16	19.14
		25	0	18.49	18.78	18.89
		25	12	18.61	18.80	18.83
		25	25	19.08	18.77	18.69
		50	0	18.82	18.84	18.71
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				18675	18900	19125
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1857.50	1880.00	1902.50
15	QPSK	1	0	20.60	20.65	20.78
		1	38	21.04	21.25	20.78
		1	74	20.71	20.65	20.46
		36	0	19.54	19.97	19.69
		36	18	19.58	19.88	19.50
		36	37	19.97	19.79	19.56
		75	0	19.66	19.94	19.71
	16QAM	1	0	19.94	20.14	19.65
		1	38	20.30	20.74	19.50
		1	74	19.89	20.13	19.28
		36	0	18.55	18.95	18.87
		36	18	18.73	18.88	18.83
		36	37	19.06	18.85	18.59
		75	0	18.69	18.74	18.66
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				18700	18900	19100
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1860.00	1880.00	1900.00

20	QPSK	1	0	20.67	20.68	20.70
		1	49	21.04	21.12	20.86
		1	99	20.69	20.63	20.41
		50	0	19.67	19.96	19.67
		50	25	19.54	19.73	19.61
		50	50	19.88	19.65	19.55
		100	0	19.64	19.86	19.64
	16QAM	1	0	19.85	20.11	19.65
		1	49	20.38	20.83	19.56
		1	99	19.93	20.03	19.22
		50	0	18.61	18.83	18.86
		50	25	18.72	18.83	18.95
		50	50	19.00	18.70	18.60
		100	0	18.80	18.88	18.81

7.1.2. LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				19957	20175	20393
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1710.70	1732.50	1754.30
1.4	QPSK	1	0	20.66	20.63	20.66
		1	2	21.22	20.85	21.20
		1	5	20.95	20.90	20.59
		3	0	20.61	20.61	20.58
		3	1	21.16	21.04	21.25
		3	3	20.90	20.78	20.77
		6	0	19.94	19.79	20.23
	16QAM	1	0	19.68	19.87	20.25
		1	2	20.04	19.99	19.81
		1	5	19.76	19.96	19.94
		3	0	19.85	20.30	20.14
		3	1	20.33	20.60	20.58
		3	3	20.06	20.10	20.04
		6	0	18.96	18.81	18.76
Bandwidth	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				19965	20175	20385
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1711.50	1732.50	1753.50
3	QPSK	1	0	20.78	20.63	20.77
		1	8	21.07	20.94	21.22
		1	14	21.11	20.81	20.76
		8	0	20.01	19.79	20.03
		8	4	19.85	19.70	20.10
		8	7	20.07	19.98	19.65
		15	0	19.82	19.74	19.79
	16QAM	1	0	19.81	20.46	20.23
		1	8	20.17	20.32	20.53
		1	14	20.08	20.17	20.16
		8	0	19.06	18.80	19.33
		8	4	18.98	18.96	19.35
		8	7	18.89	18.77	18.61
		15	0	19.00	18.65	19.02
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				19975	20175	20375
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1712.50	1732.50	1752.50
5	QPSK	1	0	20.62	20.44	20.57
		1	12	21.01	21.06	21.26
		1	24	21.09	20.91	20.53
		12	0	20.07	19.90	20.09
		12	6	19.66	19.94	20.18
		12	13	20.05	20.06	19.87
		25	0	19.89	19.79	19.81
	16QAM	1	0	19.77	20.38	20.16
		1	12	20.16	20.34	20.53
		1	24	20.03	20.21	20.13
		12	0	19.07	18.67	19.16

		12	6	18.89	18.83	19.14
		12	13	18.94	18.68	18.84
		25	0	18.92	18.68	18.94
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20000	20175	20350
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1715.00	1732.50	1750.00
10	QPSK	1	0	20.58	20.64	20.56
		1	24	21.14	21.05	21.23
		1	49	20.86	20.75	20.56
		25	0	19.86	20.05	20.06
		25	12	19.89	19.77	20.08
		25	25	20.01	19.90	19.79
		50	0	20.00	19.75	20.02
	16QAM	1	0	19.91	20.34	20.16
		1	24	20.19	20.59	20.44
		1	49	20.06	20.10	20.01
		25	0	18.83	18.82	19.13
		25	12	18.83	18.84	19.40
		25	25	18.87	18.80	18.56
		50	0	18.85	18.78	18.80
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20025	20175	20325
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1717.50	1732.50	1747.50
15	QPSK	1	0	20.70	20.63	20.57
		1	38	21.18	20.78	21.20
		1	74	20.99	20.91	20.55
		36	0	20.02	20.01	20.04
		36	18	19.80	19.67	20.17
		36	37	20.03	20.09	19.63
		75	0	19.94	19.85	20.04
	16QAM	1	0	19.84	20.22	20.27
		1	38	20.34	20.57	20.43
		1	74	20.14	20.24	19.94
		36	0	19.04	18.74	19.22
		36	18	19.05	18.95	19.28
		36	37	19.05	18.62	18.72
		75	0	19.04	18.67	18.95
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20050	20175	20300
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1720.00	1732.50	1745.00
20	QPSK	1	0	20.67	20.50	20.63
		1	49	21.07	20.91	21.28
		1	99	20.98	20.87	20.65
		50	0	19.93	19.92	20.13
		50	25	19.79	19.79	20.12
		50	50	20.05	20.00	19.78
		100	0	19.89	19.85	19.93
	16QAM	1	0	19.85	20.33	20.18
		1	49	20.28	20.46	20.50

	1	99	20.02	20.17	20.08
	50	0	18.98	18.80	19.26
	50	25	18.94	18.95	19.27
	50	50	18.98	18.68	18.70
	100	0	18.99	18.64	18.88

7.1.1. LTE Band 5

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20407	20525	20643
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				824.70	836.50	848.30
1.4	QPSK	1	0	21.29	20.99	21.02
		1	2	21.47	21.48	21.08
		1	5	20.90	20.99	21.14
		3	0	21.25	20.99	20.75
		3	1	21.32	21.20	21.24
		3	3	20.80	21.07	21.10
		6	0	20.26	20.33	20.44
	16QAM	1	0	20.17	20.27	20.37
		1	2	20.38	20.12	20.11
		1	5	20.25	20.03	19.72
		3	0	20.26	20.15	20.38
		3	1	20.44	20.14	20.31
		3	3	20.19	20.09	19.78
		6	0	19.55	19.25	19.13
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20415	20525	20635
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				825.50	836.50	847.50
3	QPSK	1	0	21.18	20.82	21.01
		1	8	21.26	21.38	21.09
		1	14	20.83	21.01	21.24
		8	0	20.32	20.20	20.32
		8	4	20.25	19.93	20.27
		8	7	20.23	20.12	19.88
		15	0	20.01	19.94	20.07
	16QAM	1	0	20.43	19.81	20.04
		1	8	20.29	20.72	20.28
		1	14	20.23	20.08	19.87
		8	0	19.60	19.39	19.24
		8	4	19.49	19.26	19.15
		8	7	19.52	18.97	18.95
		15	0	19.26	18.96	19.02
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20425	20525	20625
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				826.50	836.50	846.50
5	QPSK	1	0	21.07	20.85	20.76
		1	12	21.45	21.40	21.27
		1	24	20.72	20.95	21.12
		12	0	20.33	20.38	20.48
		12	6	20.44	19.94	20.15
		12	13	20.17	20.12	19.98
		25	0	20.29	20.06	20.08
	16QAM	1	0	20.41	19.99	20.20
		1	12	20.28	20.47	20.21
		1	24	20.16	20.04	20.04
		12	0	19.42	19.13	19.28

		12	6	19.56	19.23	19.31
		12	13	19.53	18.94	18.82
		25	0	19.39	18.78	19.08
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20450	20525	20600
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				829.00	836.50	844.00
10	QPSK	1	0	21.19	20.94	20.89
		1	24	21.38	21.34	21.17
		1	49	20.84	20.99	21.16
		25	0	20.27	20.27	20.34
		25	12	20.34	20.08	20.24
		25	25	20.16	19.97	19.85
		50	0	20.16	19.98	20.00
	16QAM	1	0	20.35	19.94	20.06
		1	24	20.42	20.60	20.14
		1	49	20.21	19.96	19.98
		25	0	19.55	19.28	19.24
		25	12	19.53	19.26	19.25
		25	25	19.42	18.89	18.92
		50	0	19.35	18.84	18.96

7.1.2. LTE Band 7

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20775	21100	21425
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2502.50	2535.00	2567.50
5	QPSK	1	0	19.62	19.42	19.31
		1	12	20.10	20.15	20.10
		1	24	19.42	19.94	19.57
		12	0	18.63	18.42	18.73
		12	6	18.95	18.86	18.86
		12	13	18.76	18.75	18.44
		25	0	18.62	18.88	18.74
	16QAM	1	0	18.92	18.90	18.63
		1	12	19.43	19.22	19.47
		1	24	18.85	18.73	18.79
		12	0	17.54	17.79	17.62
		12	6	17.89	17.79	17.96
		12	13	18.00	17.90	17.75
		25	0	17.82	17.68	17.69
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20800	21100	21400
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2505.00	2535.00	2565.00
10	QPSK	1	0	19.71	19.59	19.59
		1	24	19.94	19.99	20.03
		1	49	19.33	19.82	19.60
		25	0	18.65	18.57	18.92
		25	12	18.76	18.80	19.00
		25	25	18.72	18.84	18.63
		50	0	18.86	18.67	18.88
	16QAM	1	0	18.85	18.70	18.37
		1	24	19.32	19.16	19.42
		1	49	18.76	18.92	18.83
		25	0	17.81	17.86	17.67
		25	12	17.92	17.74	17.94
		25	25	17.97	17.66	17.74
		50	0	17.93	17.75	17.95
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20825	21100	21375
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2507.50	2535.00	2562.50
15	QPSK	1	0	19.67	19.40	19.35
		1	38	19.97	20.07	19.90
		1	74	19.31	19.77	19.39
		36	0	18.59	18.64	18.82
		36	18	18.79	18.75	18.75
		36	37	18.80	18.65	18.59
		75	0	18.79	18.75	18.64
	16QAM	1	0	18.94	18.93	18.65
		1	38	19.45	19.12	19.45
		1	74	18.87	18.91	18.99
		36	0	17.55	17.73	17.69

		36	18	18.00	17.64	17.79
		36	37	17.81	17.81	17.67
		75	0	17.92	17.55	17.90
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				20850	21100	21350
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2510.00	2535.00	2560.00
20	QPSK	1	0	19.62	19.50	19.45
		1	49	20.05	20.11	20.01
		1	99	19.45	19.79	19.48
		50	0	18.67	18.57	18.80
		50	25	18.80	18.81	18.88
		50	50	18.73	18.69	18.52
		100	0	18.76	18.73	18.78
	16QAM	1	0	18.92	18.84	18.50
		1	49	19.33	19.22	19.32
		1	99	18.84	18.79	18.89
		50	0	17.67	17.77	17.75
		50	25	17.90	17.75	17.84
		50	50	17.90	17.78	17.69
		100	0	17.85	17.69	17.82

7.1.3. LTE Band 12

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				23017	23095	23173
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				699.70	707.50	715.30
1.4	QPSK	1	0	22.15	22.33	21.92
		1	2	22.85	22.89	22.71
		1	5	22.15	22.42	22.18
		3	0	22.24	22.21	22.10
		3	1	22.70	22.79	22.52
		3	3	22.00	22.57	22.18
		6	0	21.44	21.45	21.71
	16QAM	1	0	21.55	21.45	21.72
		1	2	21.53	21.40	21.61
		1	5	21.40	21.54	21.28
		3	0	21.46	21.43	21.50
		3	1	21.36	21.36	21.49
		3	3	21.35	21.41	21.34
		6	0	20.76	20.60	20.43
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				23025	23095	23165
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				700.50	707.50	714.50
3	QPSK	1	0	22.18	22.27	21.93
		1	8	22.79	22.71	22.75
		1	14	22.09	22.71	22.12
		8	0	21.44	21.43	21.48
		8	4	21.57	21.23	21.51
		8	7	21.64	21.29	21.37
		15	0	21.25	21.30	21.61
	16QAM	1	0	21.73	21.28	21.07
		1	8	22.03	22.10	22.04
		1	14	21.61	21.57	21.82
		8	0	20.56	20.73	20.37
		8	4	20.76	20.54	20.47
		8	7	20.40	20.44	20.59
		15	0	20.44	20.31	20.56
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				23035	23095	23155
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				701.50	707.50	713.50
5	QPSK	1	0	22.29	22.32	22.06
		1	12	22.66	22.67	22.53
		1	24	22.10	22.66	22.04
		12	0	21.47	21.60	21.55
		12	6	21.54	21.45	21.57
		12	13	21.55	21.38	21.52
		25	0	21.50	21.43	21.61
	16QAM	1	0	21.53	21.39	20.99
		1	12	21.96	22.11	22.02
		1	24	21.45	21.58	21.67
		12	0	20.45	20.49	20.37

		12	6	20.53	20.56	20.36
		12	13	20.47	20.49	20.65
		25	0	20.35	20.37	20.49
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				23060	23095	23130
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				704.00	707.50	711.00
10	QPSK	1	0	22.29	22.23	22.06
		1	24	22.71	22.79	22.67
		1	49	22.04	22.57	22.07
		25	0	21.45	21.50	21.60
		25	12	21.42	21.33	21.56
		25	25	21.50	21.40	21.40
		50	0	21.37	21.43	21.50
	16QAM	1	0	21.65	21.42	21.10
		1	24	21.98	22.01	22.07
		1	49	21.46	21.56	21.67
		25	0	20.56	20.62	20.50
		25	12	20.68	20.49	20.47
		25	25	20.51	20.47	20.57
		50	0	20.40	20.43	20.48

7.1.4. LTE Band 13

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				23205	23230	23255
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				779.50	782.00	784.50
5	QPSK	1	0	23.25	23.18	23.10
		1	12	23.62	23.78	23.65
		1	24	23.37	23.45	23.38
		12	0	22.44	22.50	22.49
		12	6	22.39	22.28	22.26
		12	13	22.46	22.50	22.34
		25	0	22.45	22.45	22.50
	16QAM	1	0	22.56	22.39	22.65
		1	12	23.13	22.99	23.01
		1	24	22.48	22.73	22.60
		12	0	21.62	21.75	21.72
		12	6	21.73	21.72	21.68
		12	13	21.45	21.37	21.31
		25	0	21.49	21.59	21.42
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				N/A	23230	N/A
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				N/A	782.00	N/A
10	QPSK	1	0	N/A	23.23	N/A
		1	24	N/A	23.76	N/A
		1	49	N/A	23.48	N/A
		25	0	N/A	22.44	N/A
		25	12	N/A	22.33	N/A
		25	25	N/A	22.49	N/A
		50	0	N/A	22.41	N/A
	16QAM	1	0	N/A	22.54	N/A
		1	24	N/A	23.05	N/A
		1	49	N/A	22.61	N/A
		25	0	N/A	21.61	N/A
		25	12	N/A	21.64	N/A
		25	25	N/A	21.41	N/A
		50	0	N/A	21.48	N/A

7.1.5. LTE Band 25

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26047	26365	26683
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1850.70	1882.50	1914.30
1.4	QPSK	1	0	20.01	20.20	20.36
		1	2	20.80	20.69	20.23
		1	5	20.69	20.74	19.31
		3	0	20.01	20.36	20.46
		3	1	20.91	20.72	20.05
		3	3	20.47	20.71	19.60
		6	0	19.69	19.58	19.58
	16QAM	1	0	19.47	19.80	19.66
		1	2	19.33	19.67	19.02
		1	5	19.49	19.67	19.30
		3	0	19.38	19.91	19.28
		3	1	20.21	20.20	19.24
		3	3	19.16	20.13	19.49
		6	0	18.25	18.55	18.46
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26055	26365	26675
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1851.50	1882.50	1913.50
3	QPSK	1	0	20.16	20.20	20.39
		1	8	20.76	20.88	20.32
		1	14	20.55	20.59	19.54
		8	0	19.69	19.70	19.48
		8	4	19.44	19.62	19.62
		8	7	19.48	19.82	19.17
		15	0	19.36	19.81	19.30
	16QAM	1	0	19.65	20.06	19.23
		1	8	20.42	20.15	19.22
		1	14	19.34	20.09	18.61
		8	0	18.76	18.57	18.72
		8	4	18.55	18.64	18.73
		8	7	18.48	18.79	18.25
		15	0	18.33	18.87	18.25
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26065	26365	26665
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1852.50	1882.50	1912.50
5	QPSK	1	0	20.25	20.28	20.25
		1	12	20.89	20.89	20.30
		1	24	20.60	20.71	19.43
		12	0	19.77	19.74	19.52
		12	6	19.62	19.81	19.45
		12	13	19.48	19.59	19.17
		25	0	19.46	19.59	19.28
	16QAM	1	0	19.63	20.00	19.24
		1	12	20.32	19.99	19.34
		1	24	19.34	20.10	18.58
		12	0	18.67	18.71	18.75

		12	6	18.65	18.62	18.70
		12	13	18.40	18.62	18.03
		25	0	18.48	18.86	18.34
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26090	26365	26640
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1855.00	1882.50	1910.00
10	QPSK	1	0	20.28	20.33	20.30
		1	24	20.75	20.74	20.12
		1	49	20.46	20.65	19.57
		25	0	19.58	19.65	19.67
		25	12	19.71	19.78	19.38
		25	25	19.28	19.81	18.94
		50	0	19.53	19.64	19.05
	16QAM	1	0	19.55	20.05	19.27
		1	24	20.37	20.29	19.31
		1	49	19.34	19.90	18.71
		25	0	18.51	18.54	18.59
		25	12	18.63	18.66	18.63
		25	25	18.59	18.77	18.24
		50	0	18.48	18.87	18.37
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26115	26365	26615
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1857.50	1882.50	1907.50
15	QPSK	1	0	20.21	20.16	20.22
		1	38	20.68	20.89	20.23
		1	74	20.67	20.59	19.32
		36	0	19.71	19.66	19.54
		36	18	19.69	19.63	19.56
		36	37	19.39	19.61	19.12
		75	0	19.29	19.68	19.10
	16QAM	1	0	19.45	19.96	19.32
		1	38	20.18	20.24	19.15
		1	74	19.37	20.13	18.62
		36	0	18.63	18.61	18.53
		36	18	18.65	18.50	18.49
		36	37	18.60	18.68	18.17
		75	0	18.55	18.71	18.39
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26140	26365	26590
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1860.00	1882.50	1905.00
20	QPSK	1	0	20.15	20.22	20.33
		1	49	20.79	20.74	20.17
		1	99	20.55	20.61	19.46
		50	0	19.62	19.70	19.59
		50	25	19.59	19.76	19.53
		50	50	19.38	19.70	19.05
		100	0	19.41	19.69	19.18
	16QAM	1	0	19.50	20.03	19.35
		1	49	20.30	20.14	19.22

	1	99	19.27	20.02	18.60
	50	0	18.63	18.57	18.65
	50	25	18.61	18.55	18.59
	50	50	18.46	18.71	18.12
	100	0	18.44	18.73	18.31

7.1.6. LTE Band 26 (814MHz ~ 824MHz)

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26697	26740	26783
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				814.70	819.00	823.30
1.4	QPSK	1	0	21.70	21.31	21.48
		1	2	21.68	21.73	21.86
		1	5	21.83	21.69	21.91
		3	0	20.70	20.90	20.82
		3	1	20.68	20.75	20.60
		3	3	21.00	20.85	20.71
		6	0	20.50	20.77	20.80
	16QAM	1	0	20.98	21.17	20.77
		1	2	21.00	21.29	21.01
		1	5	20.96	21.26	21.08
		3	0	19.71	19.83	19.97
		3	1	19.96	19.94	20.18
		3	3	20.22	20.05	20.23
		6	0	20.34	19.96	20.10
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26705	26740	26775
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				815.50	819.00	822.50
3	QPSK	1	0	21.66	21.36	21.43
		1	8	21.69	21.68	21.89
		1	14	21.87	21.91	21.74
		8	0	20.81	20.72	20.57
		8	4	20.74	20.78	20.71
		8	7	20.81	20.90	20.74
		15	0	20.64	20.69	20.92
	16QAM	1	0	21.14	21.16	20.69
		1	8	21.15	21.14	21.00
		1	14	20.95	21.07	21.22
		8	0	19.94	19.80	20.02
		8	4	19.84	20.00	20.23
		8	7	20.12	20.15	20.19
		15	0	20.31	20.10	19.93
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26715	26740	26765
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				816.50	819.00	821.50
5	QPSK	1	0	21.65	21.44	21.42
		1	12	21.82	21.81	21.74
		1	24	21.96	21.78	21.88
		12	0	20.81	20.86	20.71
		12	6	20.81	20.84	20.63
		12	13	20.89	20.92	20.85
		25	0	20.64	20.64	20.78
	16QAM	1	0	21.06	21.07	20.78
		1	12	21.06	21.21	21.09
		1	24	20.98	21.20	21.15
		12	0	19.82	19.87	19.97

		12	6	19.91	19.89	20.15
		12	13	20.10	20.16	20.15
		25	0	20.25	20.05	20.06
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				N/A	26740	N/A
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				N/A	819.00	N/A
10	QPSK	1	0	N/A	21.62	N/A
		1	24	N/A	21.84	N/A
		1	49	N/A	21.91	N/A
		25	0	N/A	20.82	N/A
		25	12	N/A	20.76	N/A
		25	25	N/A	21.02	N/A
		50	0	N/A	20.73	N/A
	16QAM	1	0	N/A	20.97	N/A
		1	24	N/A	21.24	N/A
		1	49	N/A	21.17	N/A
		25	0	N/A	19.92	N/A
		25	12	N/A	20.09	N/A
		25	25	N/A	20.06	N/A
		50	0	N/A	20.16	N/A

7.1.7. LTE Band 26 (824MHz ~ 849MHz)

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26797	26915	27033
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				824.70	836.50	848.30
1.4	QPSK	1	0	21.52	21.30	21.58
		1	2	21.64	21.31	21.55
		1	5	21.44	21.26	21.36
		3	0	21.41	21.26	21.32
		3	1	21.52	21.32	21.54
		3	3	21.58	21.32	21.28
		6	0	20.61	20.76	20.77
	16QAM	1	0	20.69	20.57	20.67
		1	2	20.93	20.74	20.68
		1	5	20.77	20.37	20.36
		3	0	21.24	20.82	21.14
		3	1	21.08	20.43	20.87
		3	3	20.85	20.57	20.67
		6	0	19.97	19.79	19.58
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26805	26915	27025
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				825.50	836.50	847.50
3	QPSK	1	0	21.49	21.29	21.55
		1	12	21.42	21.38	21.45
		1	24	21.57	21.25	21.39
		12	0	20.87	20.70	20.63
		12	6	20.84	20.45	20.77
		12	13	20.91	20.62	20.70
		25	0	20.64	20.37	20.26
	16QAM	1	0	21.36	20.93	21.08
		1	12	20.82	20.45	20.73
		1	24	20.84	20.36	20.69
		12	0	19.91	20.05	19.54
		12	6	19.78	20.04	19.87
		12	13	20.02	19.99	19.99
		25	0	19.98	19.83	19.67
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26815	26915	27015
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				826.50	836.50	846.50
5	QPSK	1	0	21.41	21.30	21.55
		1	24	21.70	21.46	21.35
		1	49	21.58	21.37	21.26
		25	0	20.81	20.83	20.79
		25	12	20.73	20.70	20.55
		25	25	20.77	20.73	20.72
		50	0	20.57	20.56	20.39
	16QAM	1	0	21.08	20.97	21.12
		1	24	20.83	20.34	20.87
		1	49	20.83	20.34	20.66
		25	0	20.07	19.92	19.53

		25	12	20.00	19.86	20.00
		25	25	20.10	19.81	20.00
		50	0	19.86	19.70	19.57
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26840	26915	26990
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				829.00	836.50	844.00
10	QPSK	1	0	21.25	21.54	21.55
		1	38	21.48	21.30	21.33
		1	74	21.56	21.12	21.22
		36	0	20.61	20.61	20.60
		36	18	20.89	20.65	20.58
		36	37	20.83	20.82	20.51
		75	0	20.56	20.57	20.28
	16QAM	1	0	21.29	20.82	21.16
		1	38	20.87	20.36	20.84
		1	74	20.77	20.36	20.60
		36	0	19.82	19.94	19.64
		36	18	19.91	19.81	19.86
		36	37	19.87	19.77	19.98
		75	0	19.95	19.60	19.51
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				26865	26915	26965
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				831.50	836.50	841.50
15	QPSK	1	0	21.40	21.40	21.46
		1	49	21.55	21.36	21.41
		1	99	21.58	21.25	21.26
		50	0	20.75	20.68	20.66
		50	25	20.74	20.56	20.63
		50	50	20.80	20.71	20.65
		100	0	20.69	20.46	20.39
	16QAM	1	0	21.22	20.85	21.03
		1	49	20.96	20.40	20.80
		1	99	20.92	20.47	20.70
		50	0	19.94	20.02	19.65
		50	25	19.86	19.96	19.93
		50	50	19.95	19.86	19.87
		100	0	19.92	19.75	19.61

7.1.8. LTE Band 38

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				37775	38000	38225
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2572.50	2595.00	2617.50
5	QPSK	1	0	19.94	20.34	20.10
		1	12	20.33	20.56	20.49
		1	24	20.13	20.49	20.60
		12	0	19.34	19.37	19.36
		12	6	19.03	19.27	19.25
		12	13	19.31	19.41	19.65
		25	0	19.16	19.36	19.53
	16QAM	1	0	19.65	19.27	19.17
		1	12	19.98	19.45	19.48
		1	24	19.72	19.49	19.46
		12	0	18.31	18.21	18.31
		12	6	18.21	18.37	18.30
		12	13	18.36	18.41	18.46
		25	0	18.19	18.53	18.65
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				37800	38000	38200
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2575.00	2595.00	2615.00
10	QPSK	1	0	19.93	20.33	20.13
		1	24	20.36	20.58	20.49
		1	49	20.04	20.32	20.43
		25	0	19.15	19.55	19.41
		25	12	19.27	19.38	19.25
		25	25	19.21	19.46	19.67
		50	0	19.42	19.52	19.44
	16QAM	1	0	19.56	19.32	19.23
		1	24	20.11	19.67	19.59
		1	49	19.61	19.41	19.29
		25	0	18.23	18.07	18.45
		25	12	18.24	18.53	18.53
		25	25	18.42	18.55	18.26
		50	0	18.20	18.57	18.47
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				37825	38000	38175
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2577.50	2595.00	2612.50
15	QPSK	1	0	19.84	20.46	20.17
		1	38	20.21	20.66	20.70
		1	74	20.18	20.60	20.40
		36	0	19.45	19.49	19.47
		36	18	19.01	19.25	19.49
		36	37	19.28	19.50	19.53
		75	0	19.33	19.42	19.45
	16QAM	1	0	19.52	19.49	19.30
		1	38	20.09	19.71	19.43
		1	74	19.74	19.31	19.30
		36	0	18.32	18.06	18.28

		36	18	18.48	18.44	18.47
		36	37	18.40	18.49	18.30
		75	0	18.34	18.58	18.42
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				37850	38000	38150
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2580.00	2595.00	2610.00
20	QPSK	1	0	19.98	20.44	20.24
		1	49	20.28	20.69	20.62
		1	99	20.13	20.47	20.51
		50	0	19.30	19.41	19.41
		50	25	19.13	19.37	19.37
		50	50	19.31	19.51	19.56
		100	0	19.31	19.43	19.40
	16QAM	1	0	19.65	19.42	19.22
		1	49	20.10	19.59	19.49
		1	99	19.69	19.34	19.36
		50	0	18.31	18.21	18.36
		50	25	18.33	18.46	18.39
		50	50	18.40	18.54	18.37
		100	0	18.27	18.43	18.57

7.1.9. LTE Band 41

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				39675	40620	41565
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2498.50	2593.00	2687.50
5	QPSK	1	0	20.05	20.05	21.10
		1	12	20.63	20.22	21.47
		1	24	20.23	20.27	21.39
		12	0	19.64	19.57	20.03
		12	6	19.46	19.40	20.07
		12	13	19.60	19.51	20.16
		25	0	19.54	19.54	20.11
	16QAM	1	0	19.86	19.95	19.96
		1	12	20.35	20.28	20.50
		1	24	20.22	19.84	20.16
		12	0	18.52	18.47	19.17
		12	6	18.63	18.70	19.35
		12	13	18.79	18.56	19.50
		25	0	18.43	18.77	19.29
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				39700	40620	41540
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2501.00	2593.00	2685.00
10	QPSK	1	0	20.18	19.96	21.29
		1	24	20.39	20.42	21.50
		1	49	20.23	20.24	21.22
		25	0	19.50	19.41	20.12
		25	12	19.47	19.29	20.14
		25	25	19.41	19.59	20.38
		50	0	19.38	19.36	20.13
	16QAM	1	0	19.67	19.88	20.03
		1	24	20.27	20.21	20.35
		1	49	20.09	19.89	20.29
		25	0	18.52	18.50	18.99
		25	12	18.61	18.62	19.34
		25	25	18.71	18.67	19.50
		50	0	18.64	18.57	19.32
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				39725	40620	41515
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2503.50	2593.00	2682.50
15	QPSK	1	0	20.11	19.99	21.06
		1	38	20.68	20.22	21.50
		1	74	20.30	20.32	21.23
		36	0	19.62	19.61	20.04
		36	18	19.61	19.51	20.24
		36	37	19.59	19.67	20.30
		75	0	19.28	19.50	20.26
	16QAM	1	0	19.89	19.89	20.15
		1	38	20.18	20.37	20.39
		1	74	20.10	20.10	20.10

		36	0	18.44	18.69	19.10
		36	18	18.57	18.45	19.24
		36	37	18.52	18.79	19.48
		75	0	18.40	18.61	19.32
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				39750	40620	41490
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2506.00	2593.00	2680.00
20	QPSK	1	0	20.06	20.10	21.14
		1	49	20.54	20.34	21.48
		1	99	20.30	20.37	21.36
		50	0	19.53	19.56	20.06
		50	25	19.54	19.39	20.17
		50	50	19.56	19.57	20.30
		100	0	19.43	19.46	20.19
	16QAM	1	0	19.75	19.90	20.10
		1	49	20.26	20.34	20.37
		1	99	20.10	19.95	20.19
		50	0	18.55	18.60	19.05
		50	25	18.54	18.59	19.39
		50	50	18.66	18.68	19.44
		100	0	18.52	18.65	19.35

8. RADIATED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90,

LIMIT

Part §22.917(a), §24.238(a), §27.53(h)

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.

LTE B2/B25

FCC: §24.238(a)

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.

LTE B4

§27.53(h)

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.

LTE B5/B26

FCC: §22.917(a)

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.

LTE B7/B38/B41

FCC: §27.53(m)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ 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)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.

TEST PROCEDURE

According to the C 63.26-2015 section 5.5.2.2.3

Below 1GHz test procedure as below:

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

Above 1GHz test procedure as below:

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. Radiated measurements

shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The height scan of the measurement antenna shall be varied from 1 m to 4 m in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When using the direct field strength method and the EUT is manipulated through three different orientations, then the scan height range of the measurement antenna is limited to 2.5 m, or 0.5 m above the top of the EUT, whichever is higher.

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
So, from d)

The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$

Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)

$= P(W) - [43 + 10\log(P)] \text{ (dB)}$

$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$

$= -13\text{dBm}$.

$\text{EIRP [dBm]} = E[\text{dB}\mu\text{V/m}] - 95.25$

$E[\text{dB}\mu\text{V/m}] = 95.25 + \text{EIRP [dBm]}$

$E[\text{dB}\mu\text{V/m}] = 82.25$

NOTE 1: Radiated spurious emissions were investigated below 30 MHz, 30 MHz – 1 GHz and above 1 GHz. There were no emissions found on below 30 MHz and 30 MHz – 1 GHz.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site.

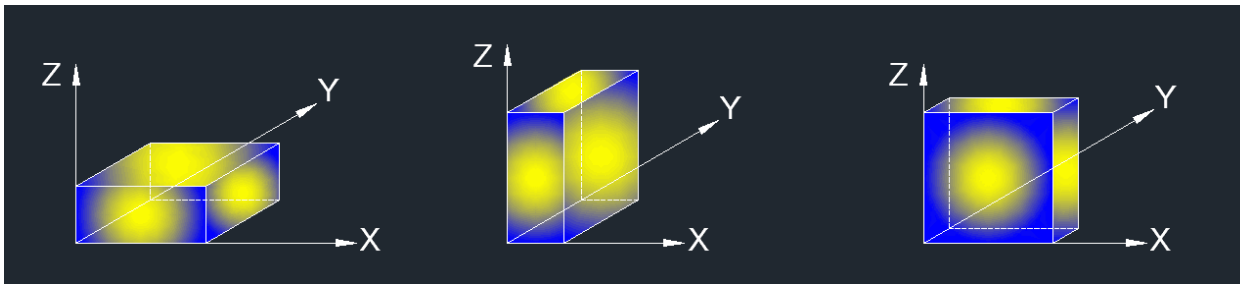
Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

NOTE 2: Please refer to section 5 for bandwidth and RB setting about LTE bands.

NOTE 3: All the test modes have been tested, only the worst data record in the report.

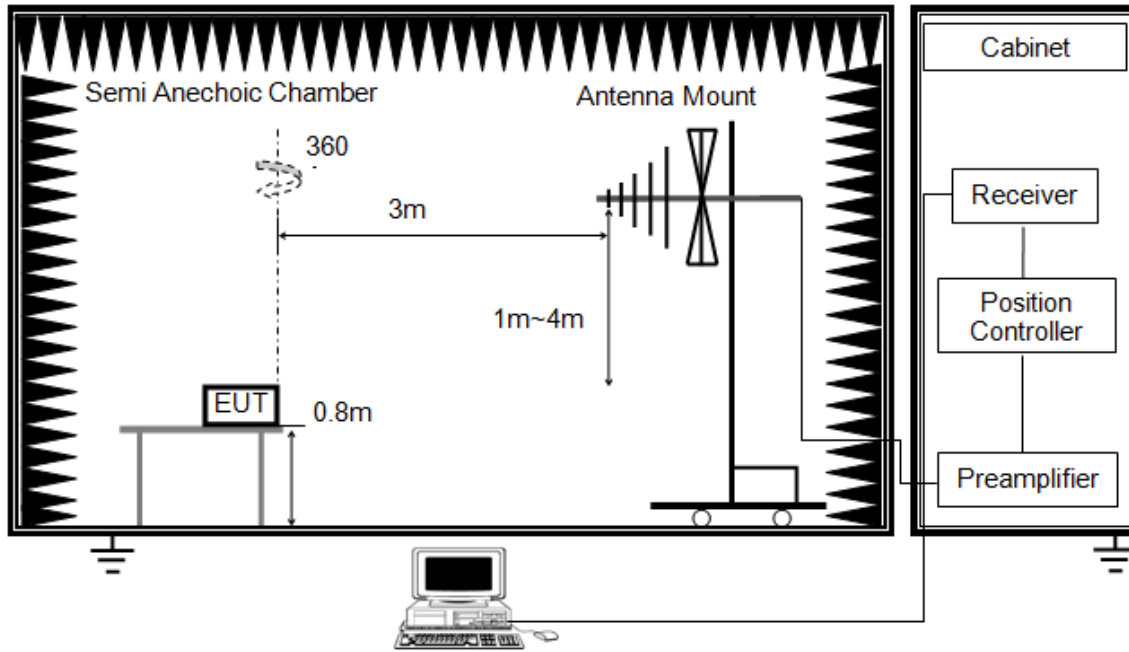
Note 4: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

X axis, Y axis, Z axis positions:

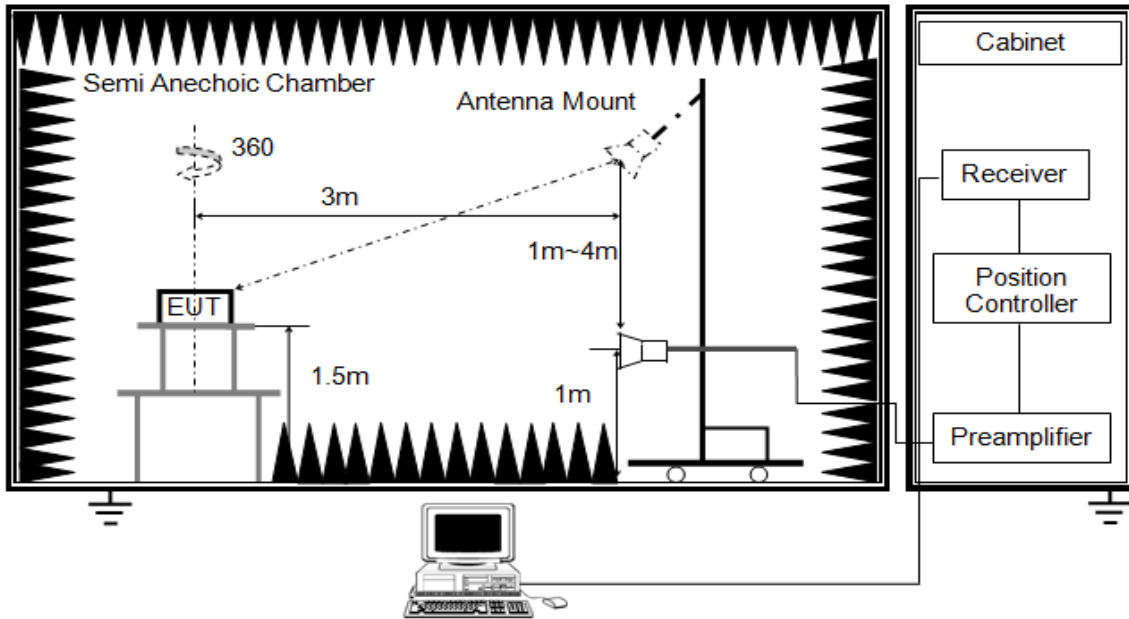


TEST SETUP

Test Setup for Below 1 GHz



Test Setup for Above 1 GHz



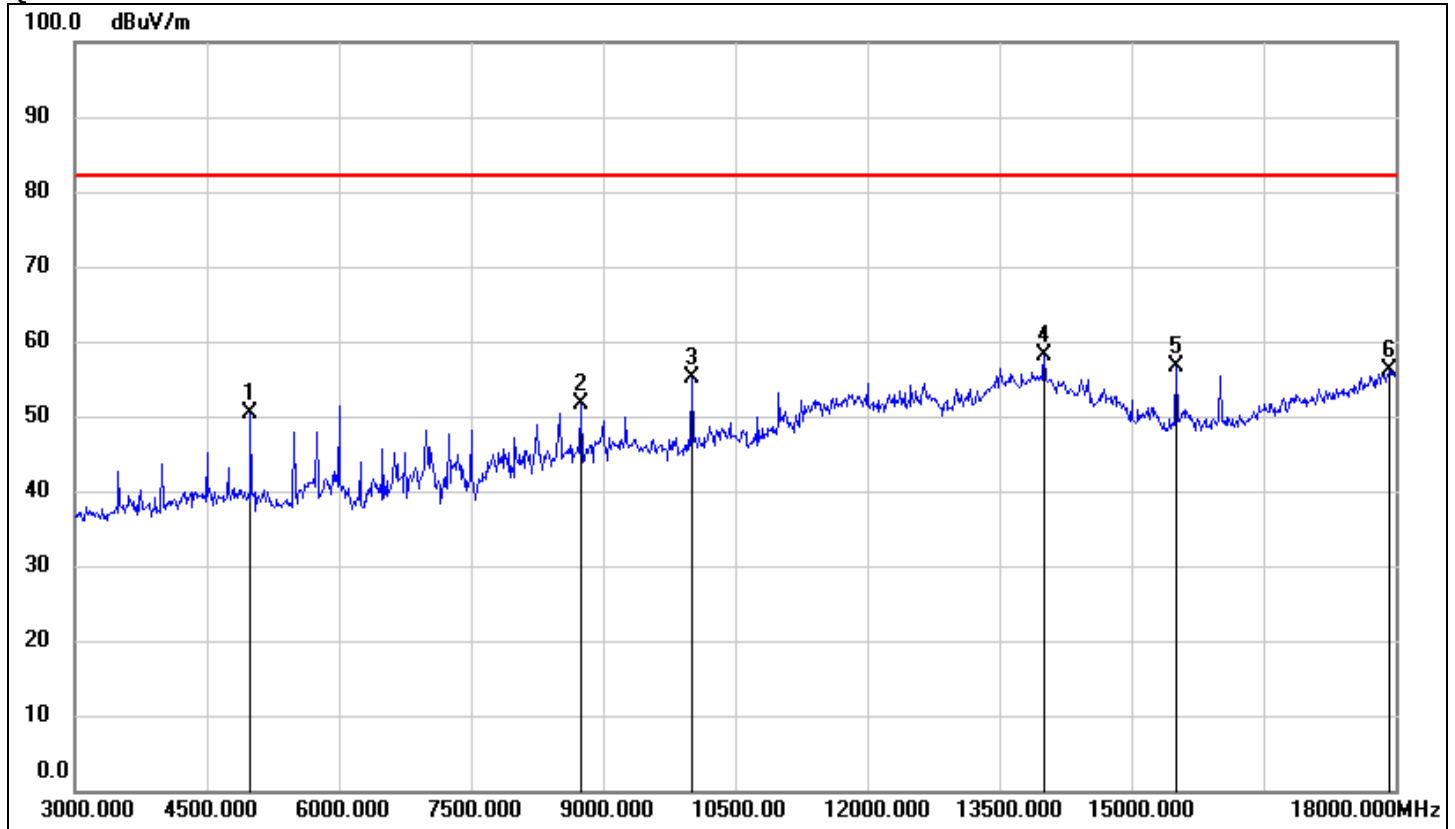
TEST ENVIRONMENT

Temperature	22.3°C	Relative Humidity	64%
Atmosphere Pressure	101kPa	Test Voltage	DC 24 V

RESULTS

8.1. TE Band 2

QPSK-20 MHz-Low Channel-Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	49.61	0.83	50.44	82.25	-31.81	peak
2	8745.000	43.04	8.51	51.55	82.25	-30.70	peak
3	10005.000	42.57	12.48	55.05	82.25	-27.20	peak
4	14010.000	35.46	22.73	58.19	82.25	-24.06	peak
5	15510.000	38.76	17.90	56.66	82.25	-25.59	peak
6	17925.000	29.54	26.55	56.09	82.25	-26.16	peak

QPSK-20 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.67	0.83	53.50	82.25	-28.75	peak
2	6000.000	54.28	3.11	57.39	82.25	-24.86	peak
3	6990.000	42.66	7.37	50.03	82.25	-32.22	peak
4	10005.000	39.97	12.48	52.45	82.25	-29.80	peak
5	13650.000	33.78	21.90	55.68	82.25	-26.57	peak
6	17925.000	29.66	26.55	56.21	82.25	-26.04	peak

QPSK-20 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBUV)	Correct (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	4995.000	51.40	0.83	52.23	82.25	-30.02	peak
2	6000.000	49.57	3.11	52.68	82.25	-29.57	peak
3	10005.000	43.91	12.48	56.39	82.25	-25.86	peak
4	12495.000	37.59	18.56	56.15	82.25	-26.10	peak
5	13755.000	34.96	22.42	57.38	82.25	-24.87	peak
6	15510.000	39.80	17.90	57.70	82.25	-24.55	peak

QPSK-20 MHz- Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBUV)	Correct (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	4995.000	51.70	0.83	52.53	82.25	-29.72	peak
2	6000.000	53.96	3.11	57.07	82.25	-25.18	peak
3	8505.000	42.67	8.24	50.91	82.25	-31.34	peak
4	10005.000	39.88	12.48	52.36	82.25	-29.89	peak
5	14010.000	34.60	22.73	57.33	82.25	-24.92	peak
6	17985.000	29.40	26.77	56.17	82.25	-26.08	peak

QPSK-20 MHz-High Channel-Horizontal

No.	Frequency (MHz)	Reading (dBUV)	Correct (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	4995.000	49.89	0.83	50.72	82.25	-31.53	peak
2	6000.000	48.64	3.11	51.75	82.25	-30.50	peak
3	8745.000	42.80	8.51	51.31	82.25	-30.94	peak
4	10005.000	42.89	12.48	55.37	82.25	-26.88	peak
5	13755.000	33.82	22.42	56.24	82.25	-26.01	peak
6	17925.000	29.48	26.55	56.03	82.25	-26.22	peak

QPSK-20 MHz- High Channel-Vertical

No.	Frequency (MHz)	Reading (dBUV)	Correct (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	4995.000	52.36	0.83	53.19	82.25	-29.06	peak
2	6000.000	54.51	3.11	57.62	82.25	-24.63	peak
3	7500.000	43.09	7.18	50.27	82.25	-31.98	peak
4	10005.000	40.90	12.48	53.38	82.25	-28.87	peak
5	14010.000	34.54	22.73	57.27	82.25	-24.98	peak
6	17955.000	29.31	26.66	55.97	82.25	-26.28	peak

Note: Limit= -13dBm+95.25=82.25 dBUV/m

8.2. LTE Band 4

QPSK-20 MHz-Low Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	49.50	0.83	50.33	82.25	-31.92	peak
2	6000.000	49.21	3.11	52.32	82.25	-29.93	peak
3	8745.000	41.70	8.51	50.21	82.25	-32.04	peak
4	10005.000	43.23	12.48	55.71	82.25	-26.54	peak
5	14010.000	34.92	22.73	57.65	82.25	-24.60	peak
6	17985.000	28.97	26.77	55.74	82.25	-26.51	peak

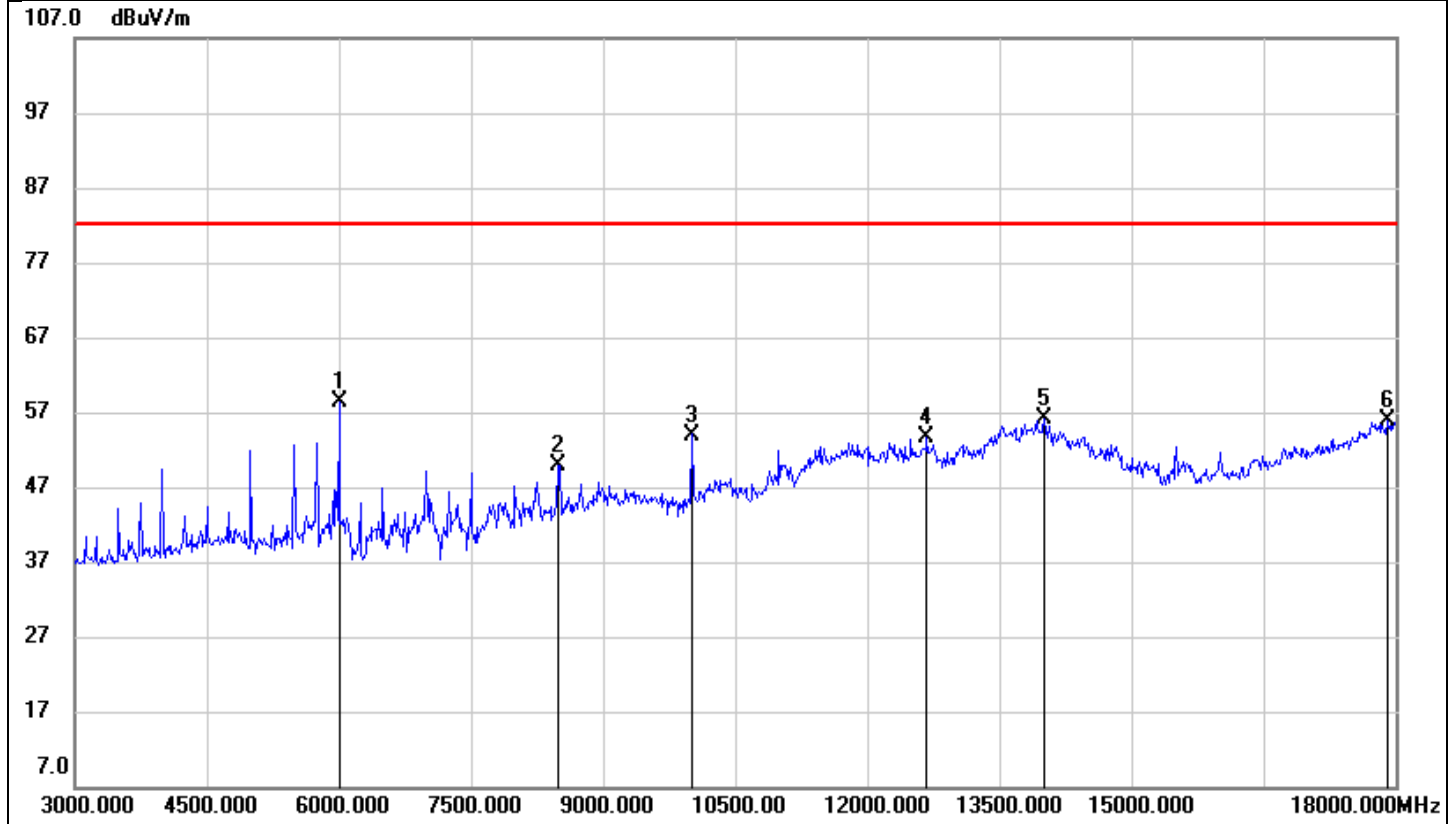
QPSK-20 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5490.000	50.95	2.28	53.23	82.25	-29.02	peak
2	6000.000	55.17	3.11	58.28	82.25	-23.97	peak
3	8505.000	41.36	8.24	49.60	82.25	-32.65	peak
4	10005.000	39.97	12.48	52.45	82.25	-29.80	peak
5	13965.000	32.99	22.74	55.73	82.25	-26.52	peak
6	17820.000	29.46	26.16	55.62	82.25	-26.63	peak

QPSK-20 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6000.000	49.48	3.11	52.59	82.25	-29.66	peak
2	8745.000	43.07	8.51	51.58	82.25	-30.67	peak
3	10005.000	43.72	12.48	56.20	82.25	-26.05	peak
4	14010.000	34.54	22.73	57.27	82.25	-24.98	peak
5	16005.000	36.74	17.91	54.65	82.25	-27.60	peak
6	17925.000	29.40	26.55	55.95	82.25	-26.30	peak

QPSK-20 MHz-Mid Channel-Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6000.000	55.29	3.11	58.40	82.25	-23.85	peak
2	8490.000	41.83	8.16	49.99	82.25	-32.26	peak
3	10005.000	41.52	12.48	54.00	82.25	-28.25	peak
4	12675.000	34.97	18.54	53.51	82.25	-28.74	peak
5	14010.000	33.28	22.73	56.01	82.25	-26.24	peak
6	17910.000	29.48	26.50	55.98	82.25	-26.27	peak

QPSK-20 MHz-High Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6000.000	48.72	3.11	51.83	82.25	-30.42	peak
2	8745.000	43.00	8.51	51.51	82.25	-30.74	peak
3	10005.000	44.18	12.48	56.66	82.25	-25.59	peak
4	12495.000	35.92	18.56	54.48	82.25	-27.77	peak
5	14010.000	34.95	22.73	57.68	82.25	-24.57	peak
6	17865.000	29.42	26.33	55.75	82.25	-26.50	peak

QPSK-20 MHz-High Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.33	0.83	53.16	82.25	-29.09	peak
2	6000.000	54.05	3.11	57.16	82.25	-25.09	peak
3	10005.000	41.08	12.48	53.56	82.25	-28.69	peak
4	12495.000	35.57	18.56	54.13	82.25	-28.12	peak
5	14010.000	32.87	22.73	55.60	82.25	-26.65	peak
6	17745.000	30.19	25.58	55.77	82.25	-26.48	peak

Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.3. LTE Band 5

QPSK-10 MHz-Low Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2485.000	58.50	-7.88	50.62	82.25	-31.63	peak
2	4501.000	45.97	-1.57	44.40	82.25	-37.85	peak
3	4996.000	50.49	0.42	50.91	82.25	-31.34	peak
4	6004.000	49.20	2.82	52.02	82.25	-30.23	peak
5	7498.000	41.30	6.77	48.07	82.25	-34.18	peak
6	8749.000	43.02	8.02	51.04	82.25	-31.21	peak

QPSK-10 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	53.84	-7.88	45.96	82.25	-36.29	peak
2	3997.000	53.63	-3.45	50.18	82.25	-32.07	peak
3	4996.000	52.81	0.42	53.23	82.25	-29.02	peak
4	6004.000	55.35	2.82	58.17	82.25	-24.08	peak
5	7003.000	44.42	6.79	51.21	82.25	-31.04	peak
6	10000.000	41.34	12.01	53.35	82.25	-28.90	peak

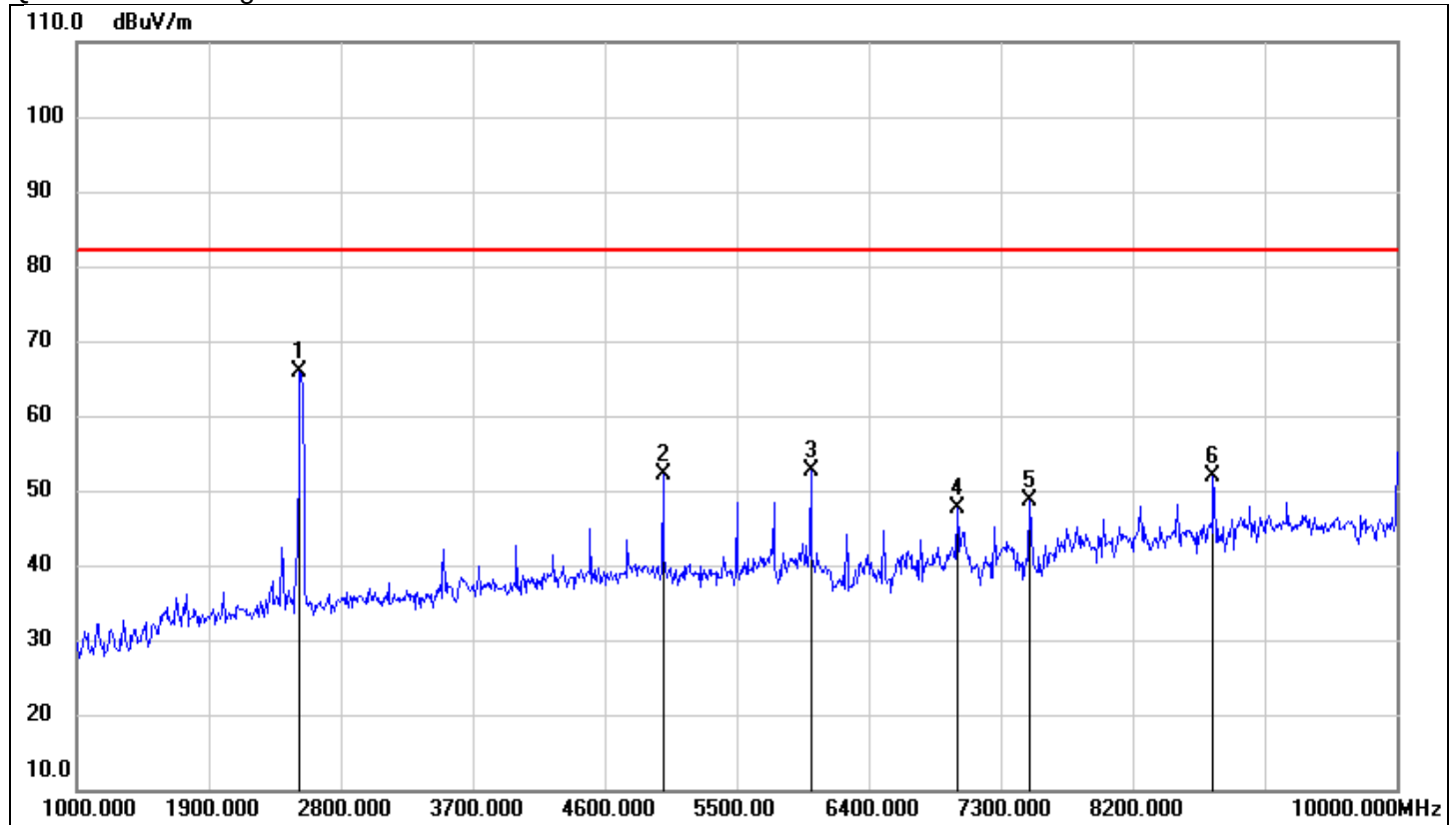
QPSK-10 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2512.000	59.30	-7.88	51.42	82.25	-30.83	peak
2	4996.000	49.71	0.42	50.13	82.25	-32.12	peak
3	6004.000	50.93	2.82	53.75	82.25	-28.50	peak
4	7003.000	40.96	6.79	47.75	82.25	-34.50	peak
5	8254.000	42.52	8.11	50.63	82.25	-31.62	peak
6	10000.000	43.75	12.01	55.76	82.25	-26.49	peak

QPSK-10 MHz-Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2503.000	55.92	-7.87	48.05	82.25	-34.20	peak
2	3997.000	53.60	-3.45	50.15	82.25	-32.10	peak
3	4996.000	54.00	0.42	54.42	82.25	-27.83	peak
4	6004.000	54.92	2.82	57.74	82.25	-24.51	peak
5	7003.000	43.32	6.79	50.11	82.25	-32.14	peak
6	10000.000	40.28	12.01	52.29	82.25	-29.96	peak

QPSK-10 MHz-High Channel-Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2521.000	73.80	-7.89	65.91	82.25	-16.34	peak
2	4996.000	51.59	0.42	52.01	82.25	-30.24	peak
3	6004.000	49.70	2.82	52.52	82.25	-29.73	peak
4	7003.000	40.86	6.79	47.65	82.25	-34.60	peak
5	7498.000	41.77	6.77	48.54	82.25	-33.71	peak
6	8749.000	43.94	8.02	51.96	82.25	-30.29	peak

QPSK-10 MHz-High Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2530.000	68.73	-7.90	60.83	82.25	-21.42	peak
2	3997.000	53.84	-3.45	50.39	82.25	-31.86	peak
3	4996.000	52.49	0.42	52.91	82.25	-29.34	peak
4	6004.000	54.88	2.82	57.70	82.25	-24.55	peak
5	7003.000	43.31	6.79	50.10	82.25	-32.15	peak
6	10000.000	40.44	12.01	52.45	82.25	-29.80	peak

Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.4. LTE Band 7

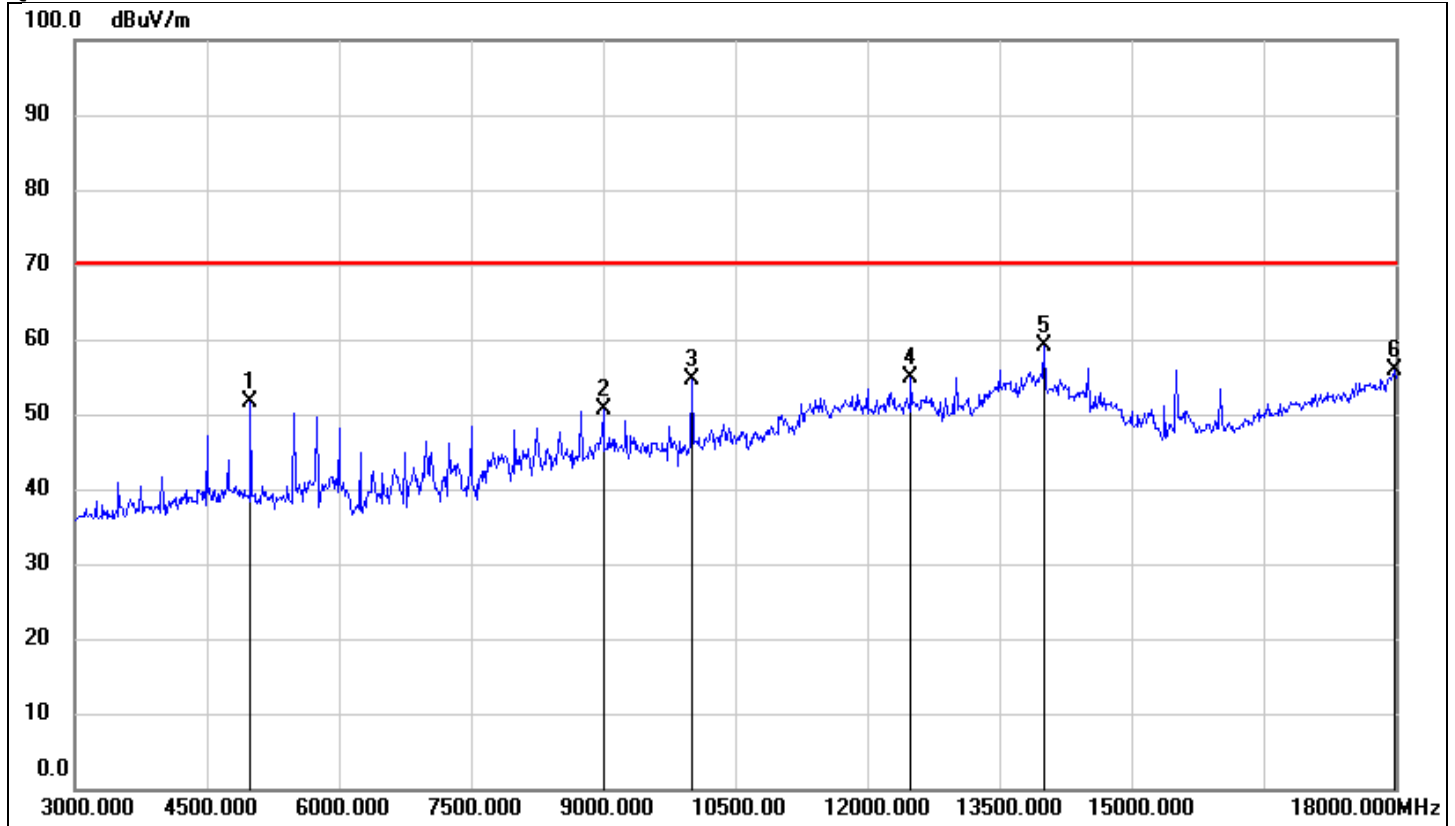
QPSK-20 MHz-Low Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	50.44	0.83	51.27	70.25	-18.98	peak
2	6000.000	48.21	3.11	51.32	70.25	-18.93	peak
3	10005.000	43.59	12.48	56.07	70.25	-14.18	peak
4	12495.000	35.29	18.56	53.85	70.25	-16.40	peak
5	14010.000	35.80	22.73	58.53	70.25	-11.72	peak
6	18000.000	28.80	26.83	55.63	70.25	-14.62	peak

QPSK-20 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5490.000	50.56	2.28	52.84	70.25	-17.41	peak
2	6990.000	44.24	7.37	51.61	70.25	-18.64	peak
3	10005.000	40.49	12.48	52.97	70.25	-17.28	peak
4	12495.000	34.75	18.56	53.31	70.25	-16.94	peak
5	14010.000	33.19	22.73	55.92	70.25	-14.33	peak
6	17925.000	28.40	26.55	54.95	70.25	-15.30	peak

QPSK-20 MHz-Mid Channel-Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	50.75	0.83	51.58	70.25	-18.67	peak
2	9000.000	39.56	11.17	50.73	70.25	-19.52	peak
3	10005.000	42.25	12.48	54.73	70.25	-15.52	peak
4	12495.000	36.36	18.56	54.92	70.25	-15.33	peak
5	14010.000	36.33	22.73	59.06	70.25	-11.19	peak
6	17985.000	29.16	26.77	55.93	70.25	-14.32	peak

QPSK-20 MHz-Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.40	0.83	53.23	70.25	-17.02	peak
2	6000.000	48.66	3.11	51.77	70.25	-18.48	peak
3	10005.000	39.76	12.48	52.24	70.25	-18.01	peak
4	12750.000	34.23	18.83	53.06	70.25	-17.19	peak
5	13920.000	33.22	22.71	55.93	70.25	-14.32	peak
6	17955.000	28.76	26.66	55.42	70.25	-14.83	peak

QPSK-20 MHz-High Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	50.44	0.83	51.27	70.25	-18.98	peak
2	7500.000	43.34	7.18	50.52	70.25	-19.73	peak
3	10005.000	43.22	12.48	55.70	70.25	-14.55	peak
4	12495.000	36.69	18.56	55.25	70.25	-15.00	peak
5	14010.000	35.08	22.73	57.81	70.25	-12.44	peak
6	17670.000	30.55	24.89	55.44	70.25	-14.81	peak

QPSK-20 MHz-High Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.35	0.83	53.18	70.25	-17.07	peak
2	6000.000	49.84	3.11	52.95	70.25	-17.30	peak
3	10005.000	40.54	12.48	53.02	70.25	-17.23	peak
4	12495.000	35.76	18.56	54.32	70.25	-15.93	peak
5	14010.000	33.25	22.73	55.98	70.25	-14.27	peak
6	17910.000	28.89	26.50	55.39	70.25	-14.86	peak

Note: Limit= -25dBm+95.25=70.25 dBuV/m

8.1. LTE Band 12

QPSK-10 MHz-Low Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1504.000	48.56	-12.70	35.86	82.25	-46.39	peak
2	2989.000	46.29	-7.02	39.27	82.25	-42.98	peak
3	4996.000	42.67	-0.17	42.50	82.25	-39.75	peak
4	7183.000	38.32	6.01	44.33	82.25	-37.92	peak
5	7750.000	39.77	5.67	45.44	82.25	-36.81	peak
6	8794.000	38.41	8.29	46.70	82.25	-35.55	peak

QPSK-10 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	45.43	-8.52	36.91	82.25	-45.34	peak
2	4438.000	42.79	-2.42	40.37	82.25	-41.88	peak
3	4996.000	41.02	-0.17	40.85	82.25	-41.40	peak
4	5896.000	39.27	1.56	40.83	82.25	-41.42	peak
5	7660.000	38.80	5.68	44.48	82.25	-37.77	peak
6	9073.000	36.83	9.77	46.60	82.25	-35.65	peak

QPSK-10 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3313.000	44.78	-6.27	38.51	82.25	-43.74	peak
2	3979.000	44.83	-4.54	40.29	82.25	-41.96	peak
3	4672.000	42.85	-1.46	41.39	82.25	-40.86	peak
4	5905.000	38.75	1.58	40.33	82.25	-41.92	peak
5	7183.000	38.23	6.01	44.24	82.25	-38.01	peak
6	9064.000	37.15	9.76	46.91	82.25	-35.34	peak

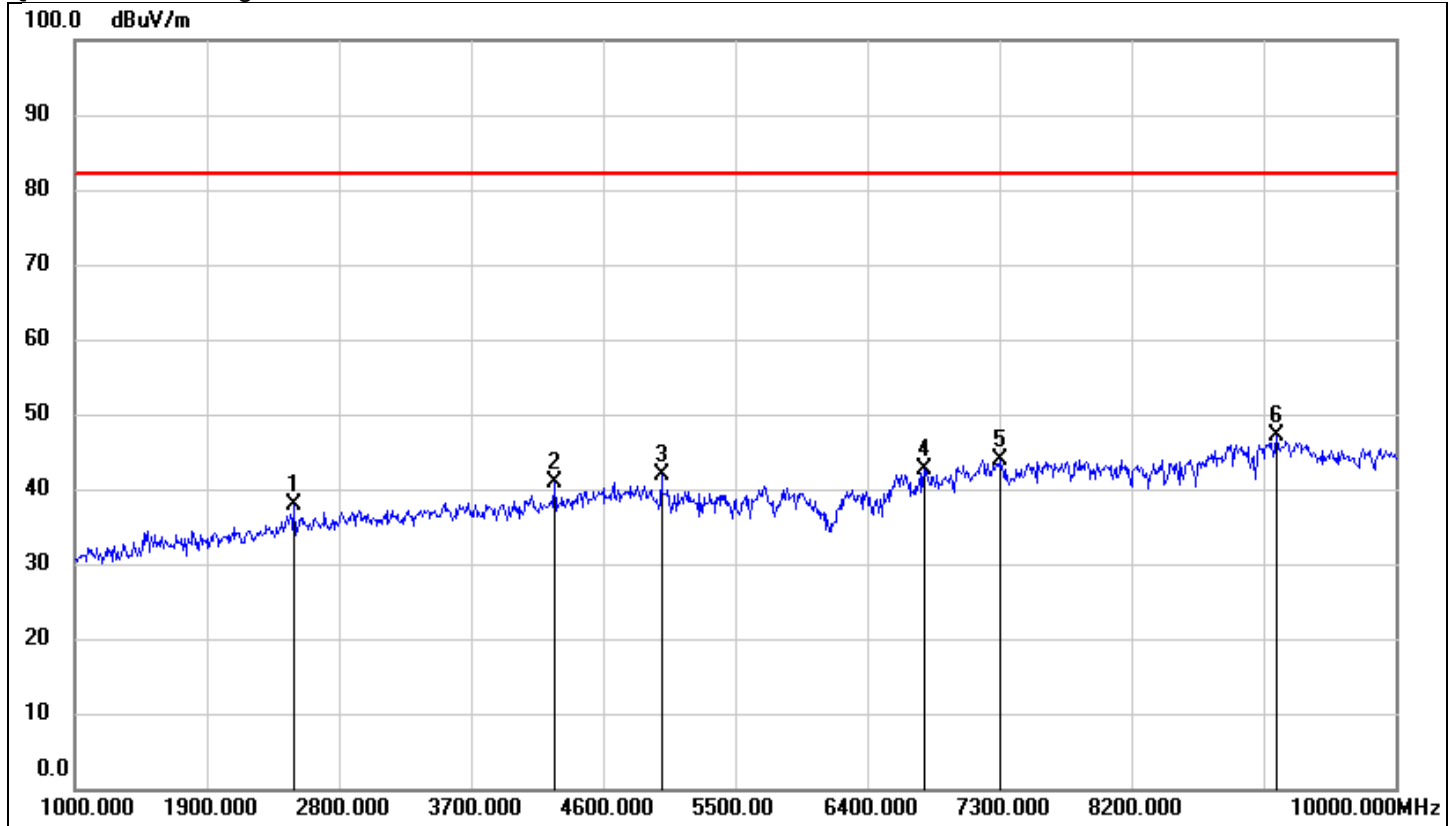
QPSK-10 MHz-Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1747.000	48.79	-11.90	36.89	82.25	-45.36	peak
2	4240.000	44.13	-3.35	40.78	82.25	-41.47	peak
3	4933.000	41.70	-0.42	41.28	82.25	-40.97	peak
4	7201.000	37.76	5.99	43.75	82.25	-38.50	peak
5	7714.000	38.96	5.68	44.64	82.25	-37.61	peak
6	9226.000	36.72	9.83	46.55	82.25	-35.70	peak

QPSK-10 MHz-High Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2548.000	45.70	-8.35	37.35	82.25	-44.90	peak
2	4267.000	42.48	-3.23	39.25	82.25	-43.00	peak
3	5815.000	39.10	1.32	40.42	82.25	-41.83	peak
4	7021.000	39.01	6.19	45.20	82.25	-37.05	peak
5	8857.000	37.78	8.73	46.51	82.25	-35.74	peak
6	9352.000	37.24	9.88	47.12	82.25	-35.13	peak

QPSK-10 MHz-High Channel-Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	46.36	-8.52	37.84	82.25	-44.41	peak
2	4267.000	44.20	-3.23	40.97	82.25	-41.28	peak
3	4996.000	42.15	-0.17	41.98	82.25	-40.27	peak
4	6787.000	37.38	5.14	42.52	82.25	-39.73	peak
5	7300.000	38.01	5.89	43.90	82.25	-38.35	peak
6	9190.000	37.37	9.81	47.18	82.25	-35.07	peak

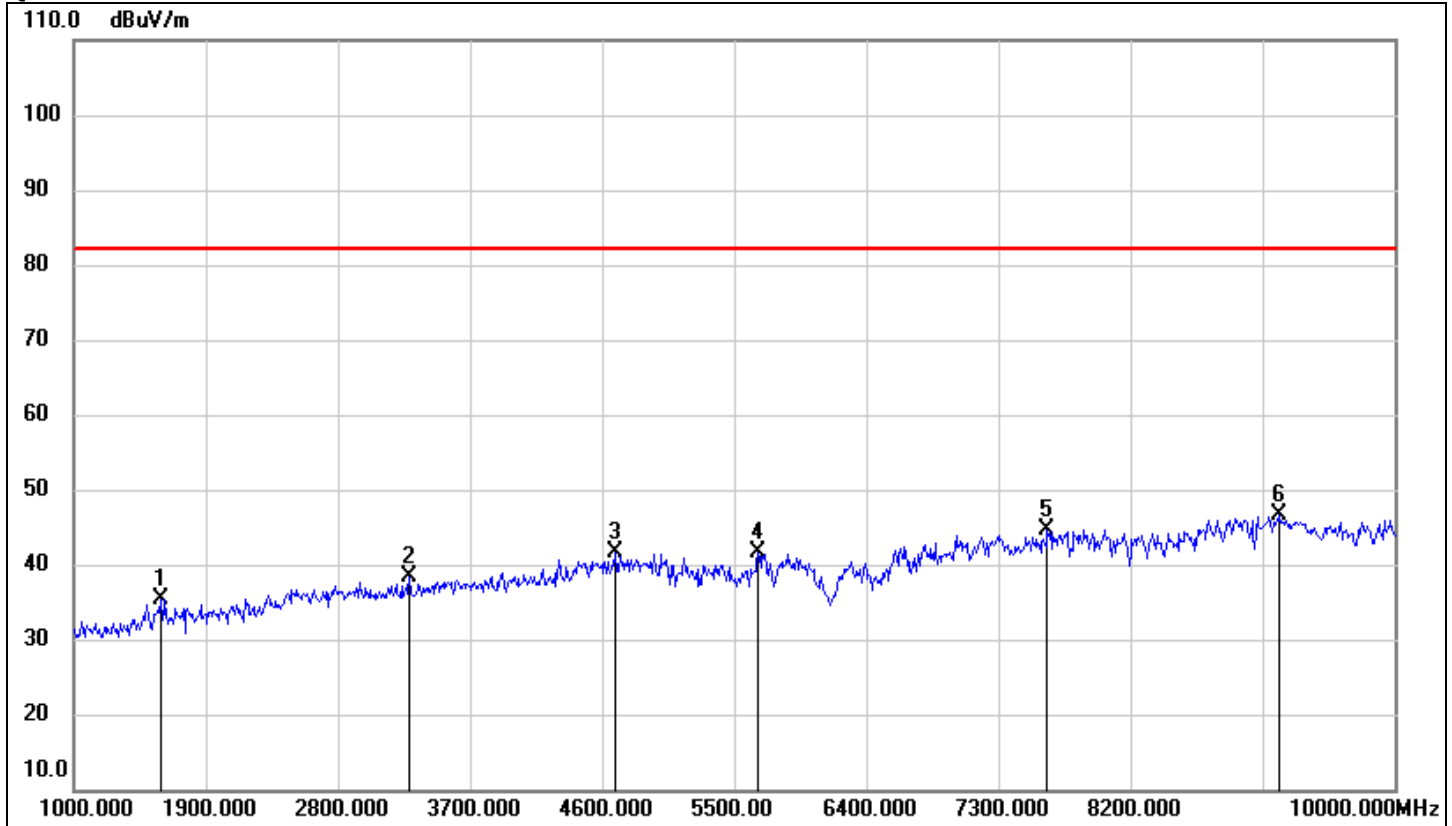
Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.1. LTE Band 13

QPSK-10 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2899.000	45.39	-7.28	38.11	82.25	-44.14	peak
2	4258.000	43.55	-3.27	40.28	82.25	-41.97	peak
3	4879.000	42.74	-0.63	42.11	82.25	-40.14	peak
4	6661.000	39.14	4.52	43.66	82.25	-38.59	peak
5	7300.000	38.82	5.89	44.71	82.25	-37.54	peak
6	8974.000	36.96	9.56	46.52	82.25	-35.73	peak

QPSK-10 MHz-Mid Channel-Vertical

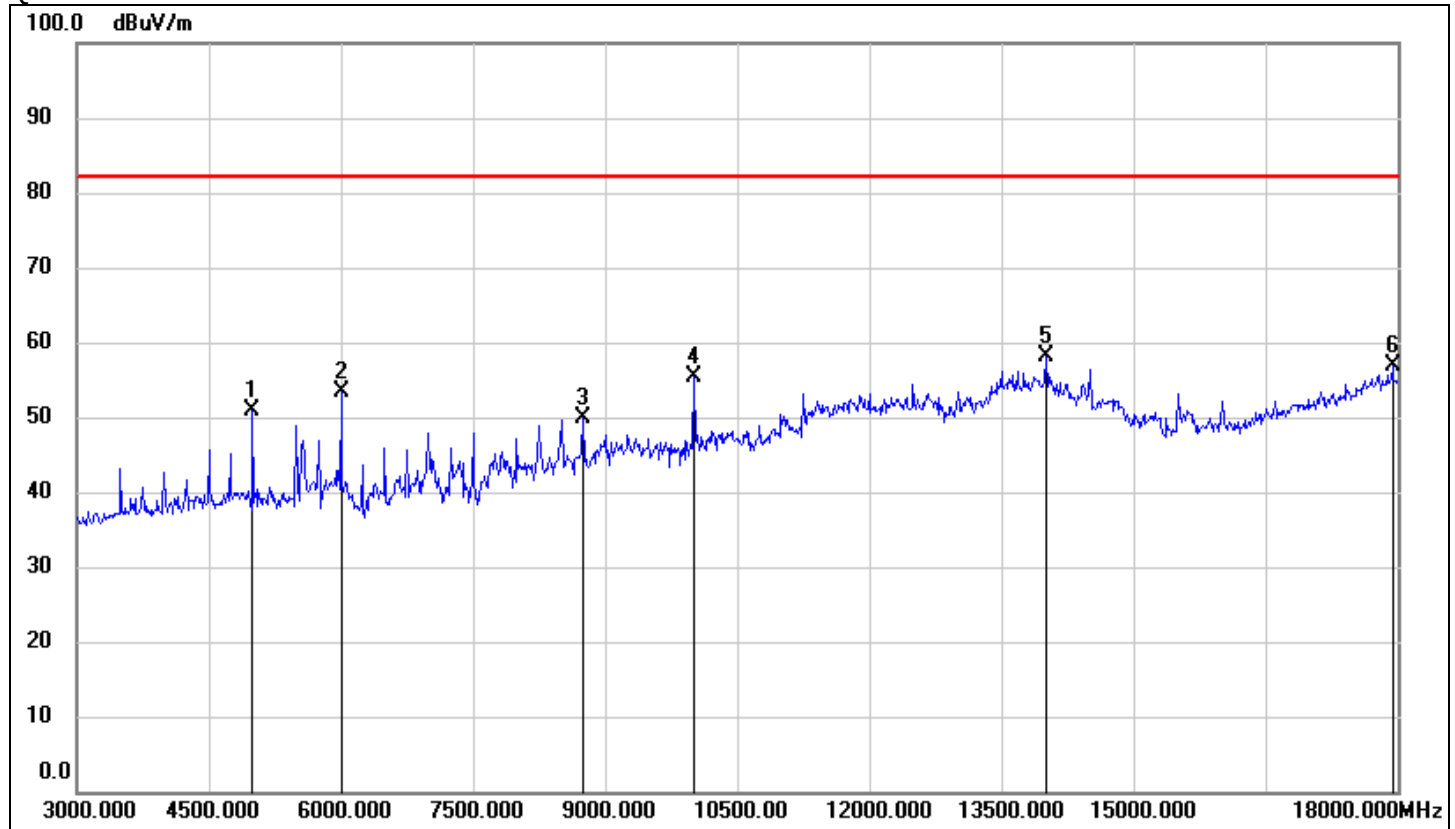


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1594.000	47.84	-12.40	35.44	82.25	-46.81	peak
2	3286.000	44.71	-6.33	38.38	82.25	-43.87	peak
3	4690.000	42.95	-1.38	41.57	82.25	-40.68	peak
4	5662.000	40.66	0.88	41.54	82.25	-40.71	peak
5	7633.000	38.90	5.68	44.58	82.25	-37.67	peak
6	9217.000	36.83	9.83	46.66	82.25	-35.59	peak

Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.2. LTE Band 25

QPSK-20 MHz-Low Channel-Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	50.16	0.83	50.99	82.25	-31.26	peak
2	6000.000	50.25	3.11	53.36	82.25	-28.89	peak
3	8745.000	41.35	8.51	49.86	82.25	-32.39	peak
4	10005.000	42.98	12.48	55.46	82.25	-26.79	peak
5	14010.000	35.35	22.73	58.08	82.25	-24.17	peak
6	17940.000	30.22	26.61	56.83	82.25	-25.42	peak

QPSK-20 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.08	0.83	52.91	82.25	-29.34	peak
2	6000.000	54.41	3.11	57.52	82.25	-24.73	peak
3	10005.000	41.06	12.48	53.54	82.25	-28.71	peak
4	12660.000	35.30	18.49	53.79	82.25	-28.46	peak
5	14010.000	35.01	22.73	57.74	82.25	-24.51	peak
6	17925.000	28.76	26.55	55.31	82.25	-26.94	peak

QPSK-20 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	50.55	0.83	51.38	82.25	-30.87	peak
2	6000.000	50.13	3.11	53.24	82.25	-29.01	peak
3	10005.000	43.71	12.48	56.19	82.25	-26.06	peak
4	13005.000	35.64	19.11	54.75	82.25	-27.50	peak
5	14010.000	34.40	22.73	57.13	82.25	-25.12	peak
6	17925.000	29.50	26.55	56.05	82.25	-26.20	peak

QPSK-20 MHz- Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.53	0.83	53.36	82.25	-28.89	peak
2	6000.000	53.50	3.11	56.61	82.25	-25.64	peak
3	6990.000	42.17	7.37	49.54	82.25	-32.71	peak
4	10005.000	41.19	12.48	53.67	82.25	-28.58	peak
5	14010.000	33.99	22.73	56.72	82.25	-25.53	peak
6	17970.000	29.44	26.72	56.16	82.25	-26.09	peak

QPSK-20 MHz-High Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	49.47	0.83	50.30	82.25	-31.95	peak
2	6000.000	49.93	3.11	53.04	82.25	-29.21	peak
3	8745.000	43.32	8.51	51.83	82.25	-30.42	peak
4	10005.000	44.03	12.48	56.51	82.25	-25.74	peak
5	14010.000	34.34	22.73	57.07	82.25	-25.18	peak
6	17985.000	29.12	26.77	55.89	82.25	-26.36	peak

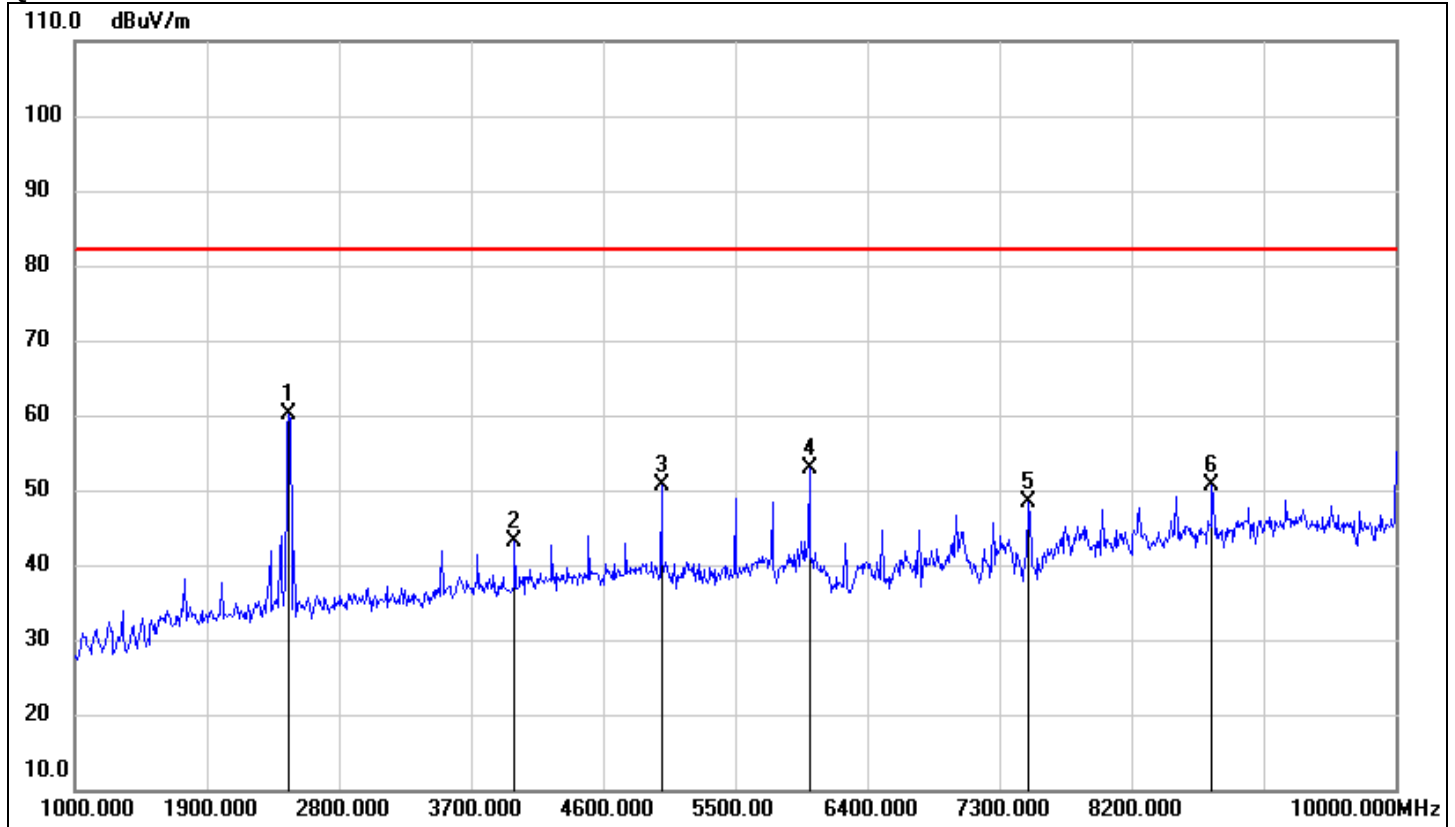
QPSK-20 MHz-High Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	54.49	0.83	55.32	82.25	-26.93	peak
2	6000.000	53.56	3.11	56.67	82.25	-25.58	peak
3	10005.000	40.88	12.48	53.36	82.25	-28.89	peak
4	12495.000	35.54	18.56	54.10	82.25	-28.15	peak
5	13920.000	33.98	22.71	56.69	82.25	-25.56	peak
6	17940.000	29.49	26.61	56.10	82.25	-26.15	peak

Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.3. LTE Band 26

QPSK-10 MHz-Mid Channel-Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.000	68.00	-7.88	60.12	82.25	-22.13	peak
2	3997.000	46.54	-3.45	43.09	82.25	-39.16	peak
3	4996.000	50.28	0.42	50.70	82.25	-31.55	peak
4	6004.000	50.17	2.82	52.99	82.25	-29.26	peak
5	7498.000	41.72	6.77	48.49	82.25	-33.76	peak
6	8749.000	42.68	8.02	50.70	82.25	-31.55	peak

QPSK-10 MHz-Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.000	66.09	-7.88	58.21	82.25	-24.04	peak
2	3997.000	53.76	-3.45	50.31	82.25	-31.94	peak
3	4996.000	52.74	0.42	53.16	82.25	-29.09	peak
4	6004.000	53.91	2.82	56.73	82.25	-25.52	peak
5	8506.000	41.84	7.79	49.63	82.25	-32.62	peak
6	10000.000	39.72	12.01	51.73	82.25	-30.52	peak

Note: Limit= -13dBm+95.25=82.25 dBuV/m

QPSK-15 MHz-Low Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	67.28	-7.88	59.40	82.25	-22.85	peak
2	4996.000	50.03	0.42	50.45	82.25	-31.80	peak
3	6004.000	50.89	2.82	53.71	82.25	-28.54	peak
4	7003.000	40.32	6.79	47.11	82.25	-35.14	peak
5	8749.000	42.26	8.02	50.28	82.25	-31.97	peak
6	10000.000	44.30	12.01	56.31	82.25	-25.94	peak

QPSK-15 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	62.48	-7.88	54.60	82.25	-27.65	peak
2	3997.000	53.63	-3.45	50.18	82.25	-32.07	peak
3	4996.000	53.45	0.42	53.87	82.25	-28.38	peak
4	6004.000	54.41	2.82	57.23	82.25	-25.02	peak
5	7498.000	42.76	6.77	49.53	82.25	-32.72	peak
6	10000.000	41.42	12.01	53.43	82.25	-28.82	peak

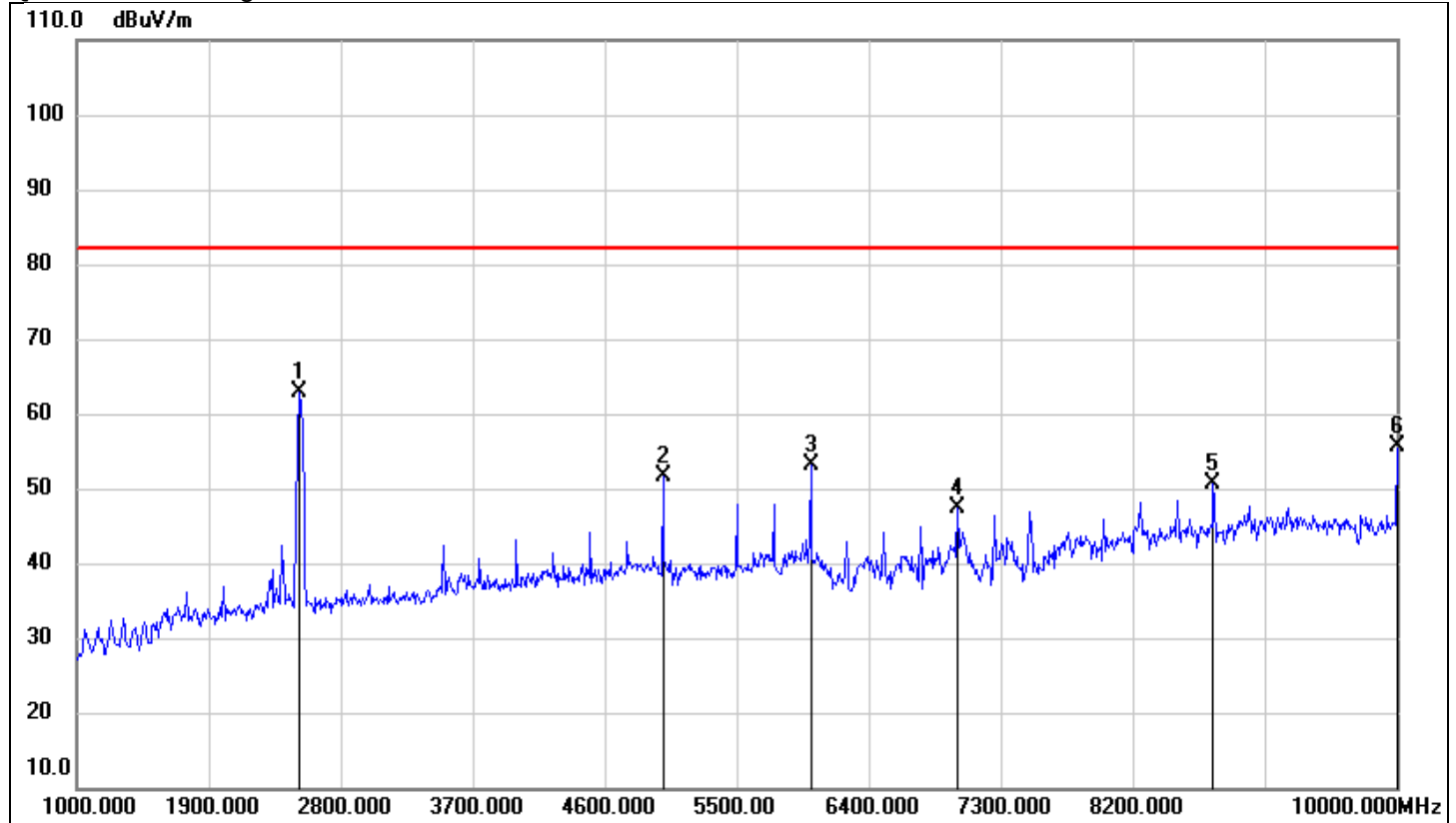
QPSK-15 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2512.000	68.23	-7.88	60.35	82.25	-21.90	peak
2	4996.000	51.95	0.42	52.37	82.25	-29.88	peak
3	6004.000	49.90	2.82	52.72	82.25	-29.53	peak
4	7498.000	43.22	6.77	49.99	82.25	-32.26	peak
5	8749.000	42.53	8.02	50.55	82.25	-31.70	peak
6	10000.000	43.71	12.01	55.72	82.25	-26.53	peak

QPSK-15 MHz-Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2503.000	68.61	-7.87	60.74	82.25	-21.51	peak
2	3997.000	52.66	-3.45	49.21	82.25	-33.04	peak
3	4996.000	54.36	0.42	54.78	82.25	-27.47	peak
4	6004.000	55.23	2.82	58.05	82.25	-24.20	peak
5	7003.000	42.02	6.79	48.81	82.25	-33.44	peak
6	8506.000	41.29	7.79	49.08	82.25	-33.17	peak

QPSK-15 MHz-High Channel-Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2521.000	70.66	-7.89	62.77	82.25	-19.48	peak
2	4996.000	51.20	0.42	51.62	82.25	-30.63	peak
3	6004.000	50.29	2.82	53.11	82.25	-29.14	peak
4	7003.000	40.67	6.79	47.46	82.25	-34.79	peak
5	8749.000	42.55	8.02	50.57	82.25	-31.68	peak
6	10000.000	43.54	12.01	55.55	82.25	-26.70	peak

QPSK-15 MHz-High Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2521.000	64.89	-7.89	57.00	82.25	-25.25	peak
2	3997.000	54.24	-3.45	50.79	82.25	-31.46	peak
3	4996.000	52.85	0.42	53.27	82.25	-28.98	peak
4	6004.000	54.01	2.82	56.83	82.25	-25.42	peak
5	8506.000	42.42	7.79	50.21	82.25	-32.04	peak
6	10000.000	39.19	12.01	51.20	82.25	-31.05	peak

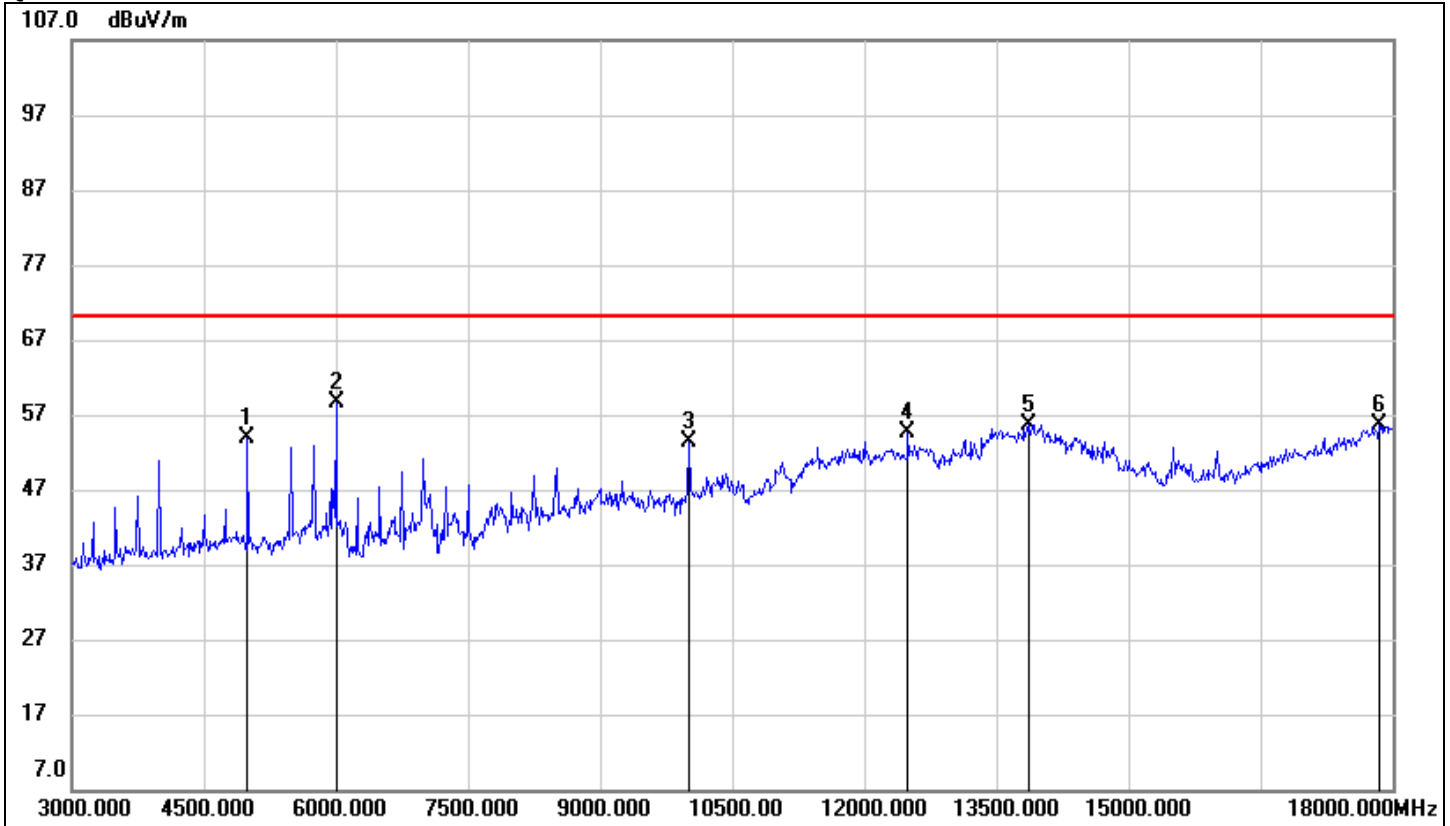
Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.4. LTE Band 38

QPSK-20 MHz-Low Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6000.000	50.06	3.11	53.17	70.25	-17.08	peak
2	8505.000	42.62	8.24	50.86	70.25	-19.39	peak
3	10005.000	43.74	12.48	56.22	70.25	-14.03	peak
4	12495.000	36.22	18.56	54.78	70.25	-15.47	peak
5	13755.000	34.38	22.42	56.80	70.25	-13.45	peak
6	17745.000	30.36	25.58	55.94	70.25	-14.31	peak

QPSK-20 MHz-Low Channel-Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.97	0.83	53.80	70.25	-16.45	peak
2	6000.000	55.48	3.11	58.59	70.25	-11.66	peak
3	10005.000	40.91	12.48	53.39	70.25	-16.86	peak
4	12495.000	35.99	18.56	54.55	70.25	-15.70	peak
5	13860.000	33.06	22.68	55.74	70.25	-14.51	peak
6	17850.000	29.41	26.28	55.69	70.25	-14.56	peak

QPSK-20 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6000.000	50.79	3.11	53.90	70.25	-16.35	peak
2	8745.000	43.20	8.51	51.71	70.25	-18.54	peak
3	10005.000	43.42	12.48	55.90	70.25	-14.35	peak
4	12000.000	36.13	18.50	54.63	70.25	-15.62	peak

5	14010.000	35.19	22.73	57.92	70.25	-12.33	peak
6	17940.000	29.27	26.61	55.88	70.25	-14.37	peak

QPSK-20 MHz-Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	51.85	0.83	52.68	70.25	-17.57	peak
2	6000.000	54.28	3.11	57.39	70.25	-12.86	peak
3	8505.000	42.16	8.24	50.40	70.25	-19.85	peak
4	10005.000	40.99	12.48	53.47	70.25	-16.78	peak
5	14010.000	33.06	22.73	55.79	70.25	-14.46	peak
6	17955.000	29.30	26.66	55.96	70.25	-14.29	peak

QPSK-20 MHz-High Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	50.01	0.83	50.84	70.25	-19.41	peak
2	6000.000	50.48	3.11	53.59	70.25	-16.66	peak
3	9000.000	39.63	11.17	50.80	70.25	-19.45	peak
4	10005.000	44.16	12.48	56.64	70.25	-13.61	peak
5	14010.000	34.33	22.73	57.06	70.25	-13.19	peak
6	17955.000	29.59	26.66	56.25	70.25	-14.00	peak

QPSK-20 MHz-High Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	53.09	0.83	53.92	70.25	-16.33	peak
2	6000.000	54.99	3.11	58.10	70.25	-12.15	peak
3	10005.000	40.88	12.48	53.36	70.25	-16.89	peak
4	12645.000	35.34	18.44	53.78	70.25	-16.47	peak
5	13755.000	34.04	22.42	56.46	70.25	-13.79	peak
6	17985.000	29.34	26.77	56.11	70.25	-14.14	peak

Note: Limit= -25dBm+95.25=70.25 dBuV/m

8.5. LTE Band 41

QPSK-20 MHz-Low Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	50.02	0.83	50.85	70.25	-19.40	peak
2	9000.000	40.81	11.17	51.98	70.25	-18.27	peak
3	10005.000	43.54	12.48	56.02	70.25	-14.23	peak
4	12495.000	35.51	18.56	54.07	70.25	-16.18	peak
5	14010.000	35.20	22.73	57.93	70.25	-12.32	peak
6	15510.000	39.26	17.90	57.16	70.25	-13.09	peak

QPSK-20 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.07	0.83	52.90	70.25	-17.35	peak
2	6000.000	49.51	3.11	52.62	70.25	-17.63	peak
3	10005.000	40.55	12.48	53.03	70.25	-17.22	peak
4	12495.000	35.31	18.56	53.87	70.25	-16.38	peak
5	14010.000	33.90	22.73	56.63	70.25	-13.62	peak
6	17985.000	29.47	26.77	56.24	70.25	-14.01	peak

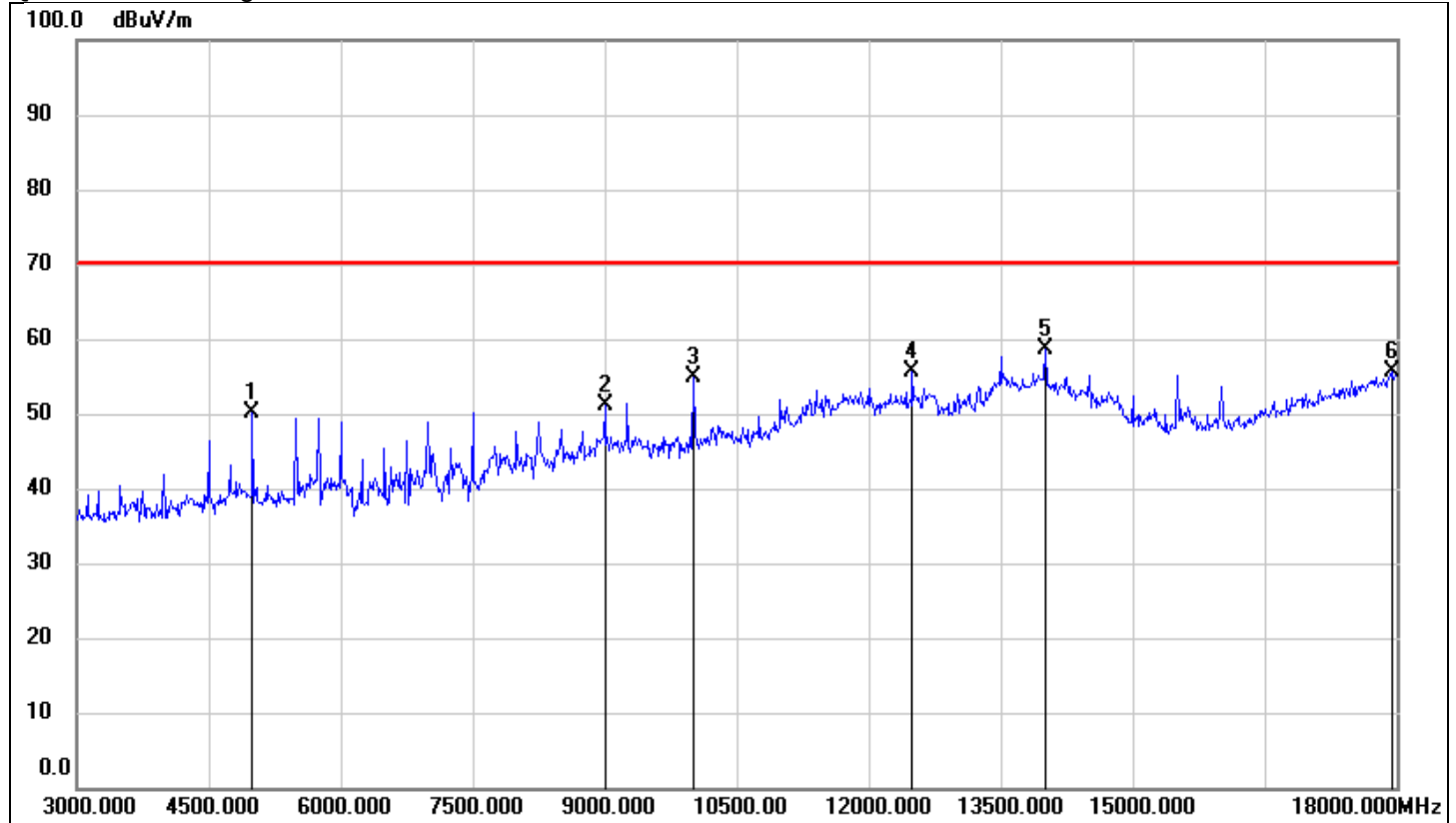
QPSK-20 MHz-Mid Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5490.000	47.49	2.28	49.77	70.25	-20.48	peak
2	7500.000	43.29	7.18	50.47	70.25	-19.78	peak
3	10005.000	41.84	12.48	54.32	70.25	-15.93	peak
4	12495.000	35.77	18.56	54.33	70.25	-15.92	peak
5	14010.000	35.48	22.73	58.21	70.25	-12.04	peak
6	18000.000	28.26	26.83	55.09	70.25	-15.16	peak

QPSK-20 MHz-Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	53.67	0.83	54.50	70.25	-15.75	peak
2	6000.000	49.36	3.11	52.47	70.25	-17.78	peak
3	10005.000	40.70	12.48	53.18	70.25	-17.07	peak
4	12495.000	36.20	18.56	54.76	70.25	-15.49	peak
5	14010.000	33.87	22.73	56.60	70.25	-13.65	peak
6	18000.000	28.97	26.83	55.80	70.25	-14.45	peak

QPSK-20 MHz-High Channel-Horizontal



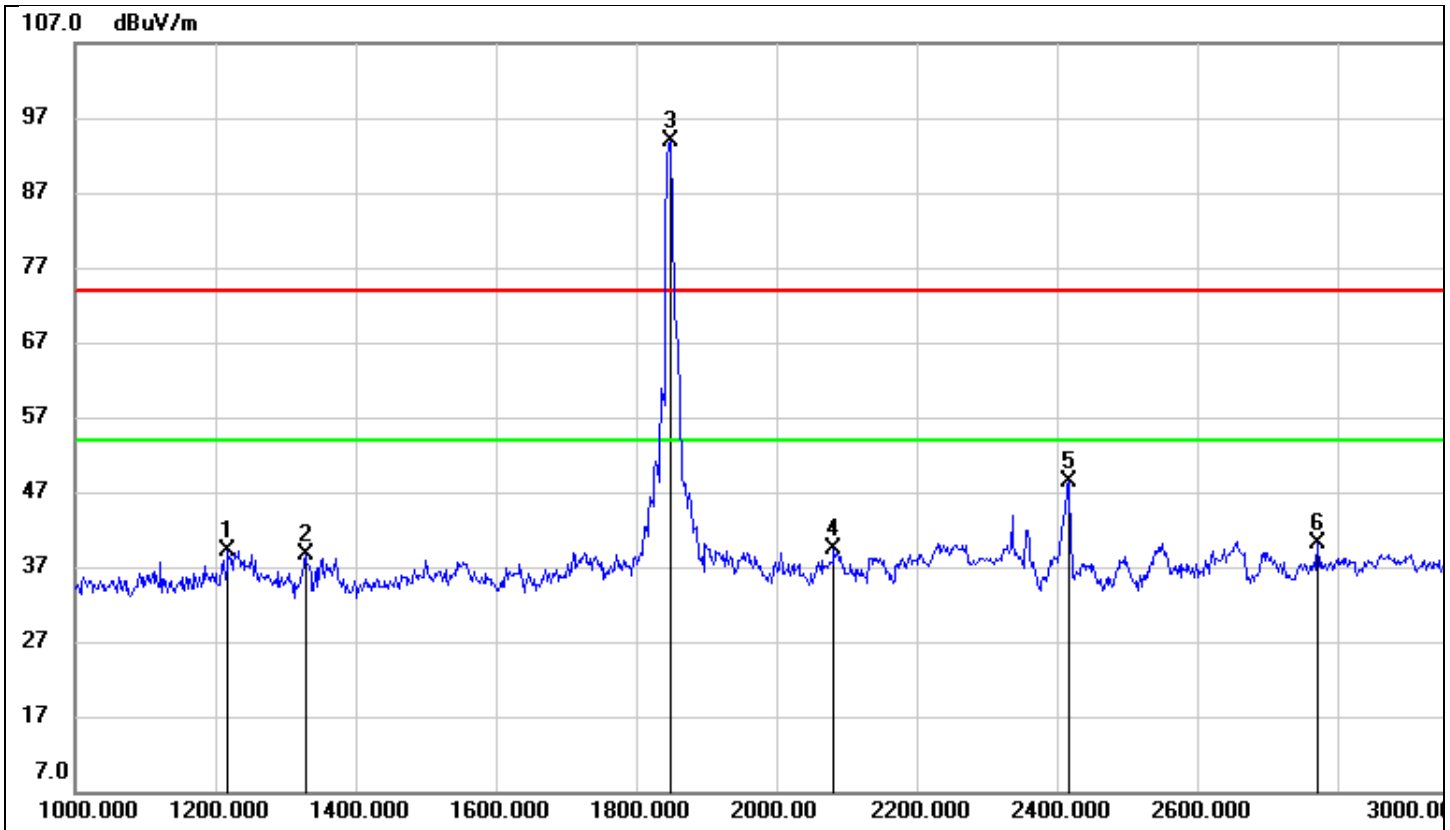
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	49.24	0.83	50.07	70.25	-20.18	peak
2	9000.000	39.95	11.17	51.12	70.25	-19.13	peak
3	10005.000	42.43	12.48	54.91	70.25	-15.34	peak
4	12495.000	37.18	18.56	55.74	70.25	-14.51	peak
5	14010.000	35.98	22.73	58.71	70.25	-11.54	peak
6	17940.000	29.08	26.61	55.69	70.25	-14.56	peak

QPSK-20 MHz-High Channel-Vertical

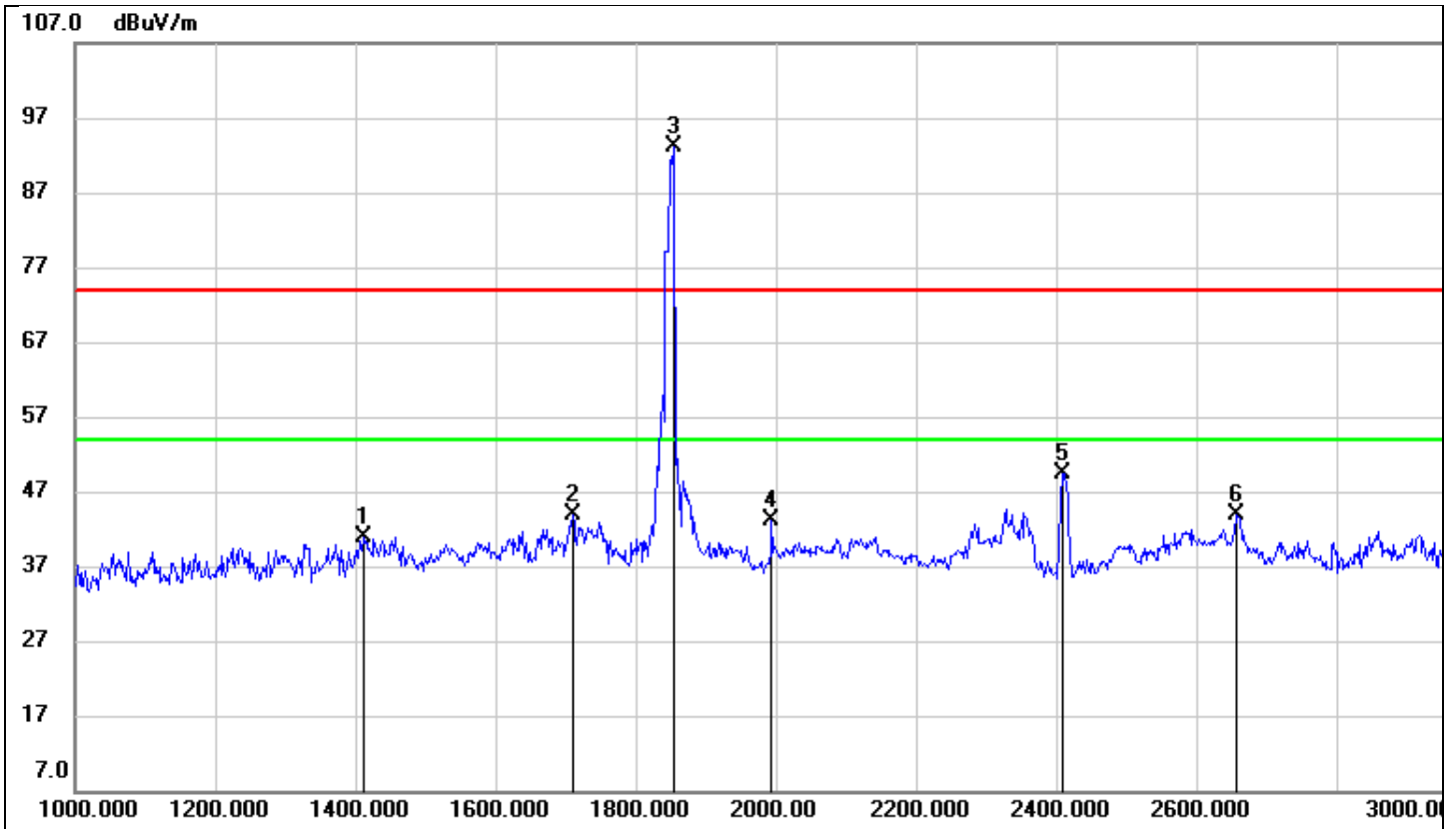
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	52.22	0.83	53.05	70.25	-17.20	peak
2	9000.000	39.07	11.17	50.24	70.25	-20.01	peak
3	10005.000	41.09	12.48	53.57	70.25	-16.68	peak
4	12495.000	35.98	18.56	54.54	70.25	-15.71	peak
5	13875.000	32.84	22.68	55.52	70.25	-14.73	peak
6	17955.000	28.49	26.66	55.15	70.25	-15.10	peak

Note: Limit= -25dBm+95.25=70.25 dBuV/m

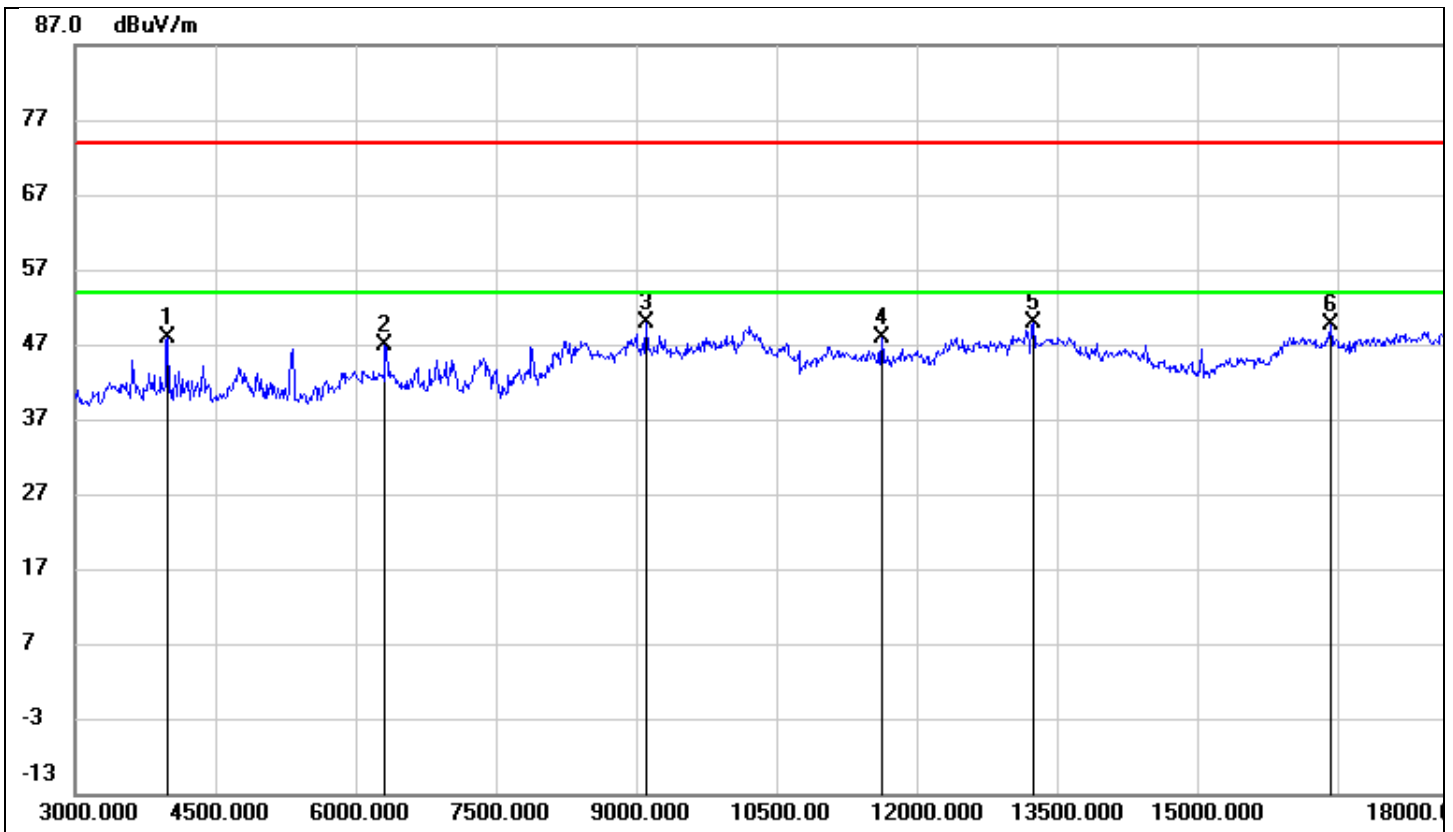
8.1. Simultaneous transmission of LTE Band 2 & WiFi 2.4GHz



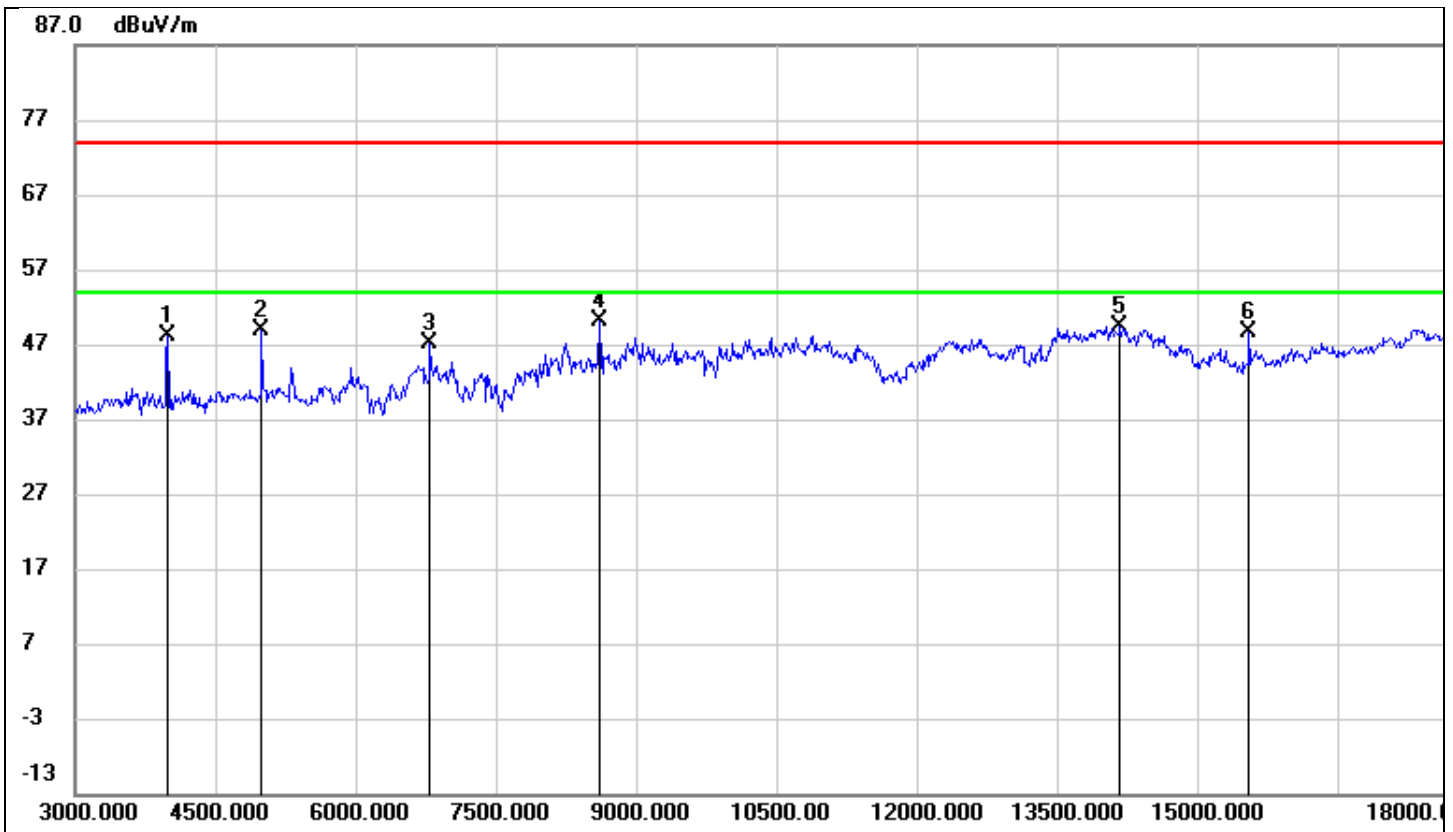
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1218.000	51.79	-12.62	39.17	74.00	-34.83	peak
2	1328.000	51.04	-12.49	38.55	74.00	-35.45	peak
3	1848.000	104.03	-10.20	93.83	\	\	fundamental
4	2082.000	48.90	-9.61	39.29	74.00	-34.71	peak
5	2416.000	55.82	-7.42	48.40	74.00	-25.60	peak
6	2772.000	47.04	-6.92	40.12	74.00	-33.88	peak



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1412.000	53.33	-12.33	41.00	74.00	-33.00	peak
2	1710.000	54.57	-10.66	43.91	74.00	-30.09	peak
3	1854.000	103.42	-10.20	93.22	\	\	fundamental
4	1994.000	53.21	-10.11	43.10	74.00	-30.90	peak
5	2410.000	56.81	-7.40	49.41	74.00	-24.59	peak
6	2658.000	51.24	-7.43	43.81	74.00	-30.19	peak



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	49.63	-1.68	47.95	74.00	-26.05	peak
2	6315.000	42.35	4.43	46.78	74.00	-27.22	peak
3	9105.000	39.00	10.98	49.98	74.00	-24.02	peak
4	11625.000	32.55	15.32	47.87	74.00	-26.13	peak
5	13245.000	31.17	18.66	49.83	74.00	-24.17	peak
6	16425.000	27.78	21.86	49.64	74.00	-24.36	peak



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3990.000	50.83	-2.78	48.05	74.00	-25.95	peak
2	4995.000	47.93	1.03	48.96	74.00	-25.04	peak
3	6795.000	42.03	5.10	47.13	74.00	-26.87	peak
4	8610.000	41.34	8.81	50.15	74.00	-23.85	peak
5	14175.000	27.23	22.17	49.40	74.00	-24.60	peak
6	15555.000	30.11	18.56	48.67	74.00	-25.33	peak

Note:

1. All modes have been evaluated, only the worst data reported.

END OF REPORT