

CFR 47 FCC PART 2
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 Smart Phone

MODEL NUMBER: S6603L, NUU N10, N10

REPORT NUMBER: 4791434720-1-RF-7

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Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	Sept 04, 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 90S > when < Simple Acceptance > decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Sun Cupid Technology (HK) Ltd.
Address: 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan,
Kowloon Hong Kong

Manufacturer Information

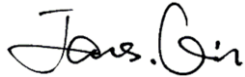
Company Name: Sun Cupid Technology (HK) Ltd.
Address: 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan,
Kowloon Hong Kong

EUT Information

EUT Name: LTE Smart Phone
Model: S6603L
Series Model: NUU N10, N10
Model Difference: Referred to section 5.1
Brand: NUU
Sample Received Date: August 5, 2024
Sample Status: Normal
Sample ID: 7477483
Date of Tested: August 7, 2024 to September 4, 2024

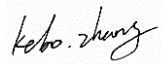
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 22 H	PASS
CFR 47 FCC PART 24 E	PASS
CFR 47 FCC PART 27	PASS
CFR 47 FCC PART 90S	PASS

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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 Smart Phone
Model:	S6603L
Series Model:	NUU N10, N10
Model Difference:	NUU N10, N10 have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with S6603L. The difference lies only the model number. all these changes do not degrade the unwanted emissions of the certified product.

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	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
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	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
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

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
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	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
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

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 26	Low Range	1.4	26697	814.7	8697	859.7
		3	26705	815.5	8705	860.5
		5	26715	816.5	8715	861.5
		10	26740	819	8740	864
		15	26765	821.5	8765	866.5
	Mid Range	1.4/3/5/10/15	26865	831.5	8865	876.5
	High Range	1.4	27033	848.3	9033	893.3
		3	27025	847.5	9025	892.5
		5	27015	846.5	9015	891.5
		10	26990	844	8990	889
		15	26965	841.5	8965	886.5

Band	Test Frequency ID	Bandwidth [MHz]	EARFCN	Frequency (UL and DL) [MHz]
Band 41	Low Range	5	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506
	Mid Range	5/10/15/20	40620	2593
	High Range	5	41565	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 66	Low Range	1.4	131979	1710.7	66443	2110.7
		3	131987	1711.5	66451	2111.5
		5	131997	1712.5	66461	2112.5
		10	132022	1715	66486	2115
		15	132047	1717.5	66511	2117.5
		20	132072	1720	66536	2120
	Mid Range Tx ¹	1.4/3/5/10/15/20	132322	1745	66786	2145
	Mid Range	1.4/3/5/10/15/20	132422	1755	66886	2155
	Paired High Range ²	1.4	132665	1779.3	67129	2179.3
		3	132657	1778.5	67121	2178.5
		5	132647	1777.5	67111	2177.5
		10	132622	1775	67086	2175
		15	132597	1772.5	67061	2172.5
		20	132572	1770	67036	2170
	High Range ³	1.4	NA	NA	67329	2199.3
		3	NA	NA	67321	2198.5
		5	NA	NA	67311	2197.5
		10	NA	NA	67286	2195
		15	NA	NA	67261	2192.5
		20	NA	NA	67236	2190

Note 1: Applicable for transmitter testing.

Note 2: Applicable if UL is configured on the CC.

Note 3: Applicable if no UL is configured on the CC.

Band	Test Frequency ID	Bandwidth [MHz]	NUL	Frequency of Uplink [MHz]	NDL	Frequency of Downlink [MHz]
Band 71	Low Range	5	133147	665.5	68611	619.5
		10	133172	668	68636	622
		15	133197	670.5	68661	624.5
		20	133222	673	68686	627
	Mid Range	5/10/15	133297	680.5	68761	634.5
		20	133322	683	68786	637
	High Range	5	133447	695.5	68911	649.5
		10	133422	693	68886	647
		15	133397	690.5	68861	644.5
		20	133372	688	68836	642

5.3. MAXIMUM AVERAGE OUTPUT POWER

LTE Band 2

Part 24							
EIRP Limit(W)			2.0				
Antenna Gain (dBi)			-2.56				
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	22.69	0.103	1.094	1M09G7W
	16QAM			21.94	0.087	1.106	1M11D7W
3	QPSK	1851.5	1908.5	22.62	0.101	2.715	2M71G7W
	16QAM			22.87	0.107	2.699	2M70D7W
5	QPSK	1852.5	1907.5	22.73	0.104	4.51	4M51G7W
	16QAM			22.75	0.104	4.504	4M50D7W
10	QPSK	1855.0	1905.0	22.72	0.104	8.994	9M00G7W
	16QAM			22.95	0.109	8.992	8M99D7W
15	QPSK	1857.5	1902.5	22.77	0.105	13.506	13M5G7W
	16QAM			22.85	0.107	13.476	13M5D7W
20	QPSK	1860.0	1900.0	22.68	0.103	18.064	18M1G7W
	16QAM			22.82	0.106	18.107	18M1D7W

LTE Band 4							
Part 27							
EIRP Limit(W)			1.0				
Antenna Gain (dBi)			-2.39				
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	22.94	0.114	1.1	1M10G7W
	16QAM			21.99	0.091	1.091	1M09D7W
3	QPSK	1711.5	1753.5	22.95	0.114	2.714	2M71G7W
	16QAM			22.29	0.098	2.701	2M70D7W
5	QPSK	1712.5	1752.5	22.83	0.111	4.507	4M51G7W
	16QAM			22.29	0.098	4.505	4M51D7W
10	QPSK	1715.0	1750.0	22.91	0.113	8.993	8M99G7W
	16QAM			22.30	0.098	9.011	9M01D7W
15	QPSK	1717.5	1747.5	22.88	0.112	13.509	13M5G7W
	16QAM			22.33	0.099	13.513	13M5D7W
20	QPSK	1720.0	1745.0	22.96	0.114	18.079	18M1G7W
	16QAM			22.20	0.096	18.13	18M1D7W

LTE Band 5

Part 22H							
ERP Limit(W)		7.0					
Antenna Gain (dBi)		-4.54					
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	23.10	0.044	1.094	1M09G7W
	16QAM			22.23	0.036	1.106	1M10D7W
3	QPSK	825.5	847.5	23.09	0.044	2.712	2M71G7W
	16QAM			22.85	0.041	2.702	2M70D7W
5	QPSK	826.5	846.5	23.10	0.044	4.509	4M51G7W
	16QAM			22.81	0.041	4.506	4M51D7W
10	QPSK	829	844	23.04	0.043	8.988	8M99G7W
	16QAM			22.84	0.041	8.978	8M98D7W

LTE Band 12

Part 27							
ERP Limit(W)		3.0					
Antenna Gain (dBi)		-3.78					
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	23.16	0.053	1.096	1M09G7W
	16QAM			22.27	0.043	1.092	1M09D7W
3	QPSK	700.5	714.5	23.21	0.053	2.715	2M72G7W
	16QAM			22.82	0.049	2.7	2M70D7W
5	QPSK	701.5	713.5	23.08	0.052	4.507	4M51G7W
	16QAM			22.94	0.050	4.503	4M50D7W
10	QPSK	704.0	711.0	23.06	0.052	8.991	8M99G7W
	16QAM			22.80	0.049	8.981	8M98D7W

LTE Band 25

LTE Band 25							
Part 24							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		-2.49					
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	22.63	0.103	1.095	1M10G7W
	16QAM			22.00	0.089	1.099	1M09D7W

3	QPSK	1851.5	1913.5	22.76	0.106	2.717	2M72G7W
	16QAM			22.95	0.111	2.702	2M70D7W
5	QPSK	1852.5	1912.5	22.74	0.106	4.509	4M51G7W
	16QAM			22.88	0.109	4.504	4M50D7W
10	QPSK	1855.0	1910.0	22.70	0.105	8.997	9M00G7W
	16QAM			22.93	0.111	8.995	9M00D7W
15	QPSK	1857.5	1907.5	22.82	0.108	13.502	13M5G7W
	16QAM			22.92	0.110	13.488	13M5D7W
20	QPSK	1860.0	1905.0	22.68	0.104	18.073	18M1G7W
	16QAM			22.82	0.108	18.069	18M1D7W

LTE Band 26

LTE Band 26(814~824)							
Part 90S							
Conducted Limit(W)			100.0				
Antenna Gain (dBi)			-4.07				
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	22.94	/	1.094	1M09G7W
	16QAM			22.46	/	1.104	1M10D7W
3	QPSK	815.5	822.5	22.99	/	2.715	2M72G7W
	16QAM			22.40	/	2.698	2M70D7W
5	QPSK	816.5	821.5	22.97	/	4.508	4M51G7W
	16QAM			22.45	/	4.503	4M50D7W
10	QPSK	819.0	819.0	22.95	/	8.982	8M98G7W
	16QAM			22.42	/	8.989	8M99D7W

LTE Band 26(824~849)							
Part 22							
ERP Limit(W)			7.0				
Antenna Gain (dBi)			-4.07				
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	23.27	0.051	1.098	1M10G7W
	16QAM			22.45	0.042	1.099	1M10D7W
3	QPSK	825.5	847.5	23.32	0.051	2.714	2M71G7W
	16QAM			22.46	0.042	2.7	2M70D7W
5	QPSK	826.5	846.5	23.23	0.050	4.507	4M51G7W
	16QAM			22.49	0.042	4.505	4M51D7W
10	QPSK	829.0	844.0	23.17	0.050	8.985	8M99G7W
	16QAM			22.42	0.042	8.989	8M99D7W

15	QPSK	831.5	841.5	23.23	0.050	13.484	13M5G7W
	16QAM			22.45	0.042	13.474	13M5D7W

LTE Band 41

Part 27							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		-3.65					
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	22.34	0.074	4.507	4M51G7W
	16QAM			21.64	0.063	4.516	4M52D7W
10	QPSK	2501	2685	22.46	0.076	8.992	8M99G7W
	16QAM			21.98	0.068	8.994	8M99D7W
15	QPSK	2503.5	2682.5	22.37	0.074	13.518	13M5G7W
	16QAM			21.79	0.065	13.486	13M5D7W
20	QPSK	2506	2680	22.41	0.075	18.057	18M1G7W
	16QAM			21.82	0.066	18	18M0D7W

LTE Band 66

Part 27							
EIRP Limit(W)		1.0					
Antenna Gain (dBi)		-2.39					
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	1779.3	23.09	0.117	1.1	1M10G7W
	16QAM			22.00	0.091	1.091	1M09D7W
3	QPSK	1711.5	1778.5	23.03	0.116	2.716	2M72G7W
	16QAM			22.48	0.102	2.704	2M70D7W
5	QPSK	1712.5	1777.5	22.96	0.114	4.51	4M51G7W
	16QAM			22.47	0.102	4.507	4M51D7W
10	QPSK	1715	1775	23.05	0.116	8.986	8M99G7W
	16QAM			22.40	0.100	9.001	9M00D7W
15	QPSK	1717.5	1772.5	23.12	0.118	13.512	13M5G7W
	16QAM			22.35	0.099	13.502	13M5D7W
20	QPSK	1720	1770	23.05	0.116	18.077	18M1G7W
	16QAM			22.11	0.094	18.113	18M1D7W

LTE Band 71

LTE Band 71							
Part 27							
ERP Limit(W)			3.0				
Antenna Gain (dBi)			-4.41				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	665.5	695.5	23.29	0.047	4.505	4M51G7W
	16QAM			22.94	0.043	4.502	4M50D7W
10	QPSK	668.0	693.0	23.42	0.049	8.996	9M00G7W
	16QAM			22.82	0.042	9	9M00D7W
15	QPSK	670.5	690.5	23.19	0.046	13.48	13M5G7W
	16QAM			22.98	0.044	13.477	13M5D7W
20	QPSK	673.0	688.0	23.33	0.048	18.083	18M1G7W
	16QAM			22.90	0.043	18.059	18M1D7W

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 are no emissions found on below 1GHz and above 18 GHz, the emissions between 1 GHz – 18 GHz are tested at the low, mid, high 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

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

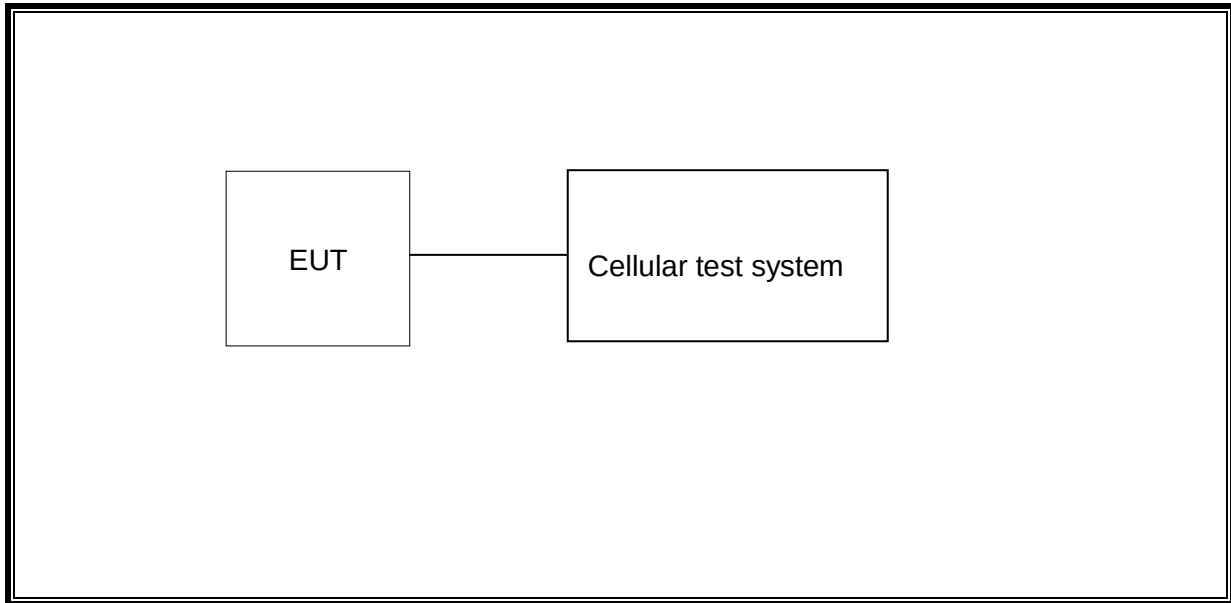
Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Ant0	LTE Band 2	PIFA	-2.56
Ant0	LTE Band 4	PIFA	-2.39
Ant0	LTE Band 5	PIFA	-4.54
Ant0	LTE Band 12	PIFA	-3.78
Ant0	LTE Band 25	PIFA	-2.49
Ant0	LTE Band 26	PIFA	-4.07
Ant0	LTE Band 41	PIFA	-3.65
Ant0	LTE Band 66	PIFA	-2.39
Ant0	LTE Band 71	PIFA	-4.41

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 12	☒ 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 41	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 66	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna
LTE Band 71	☒ 1TX, 2RX	Main antenna can be used as transmitting/receiving antenna, DIV antenna can be used as receiving antenna

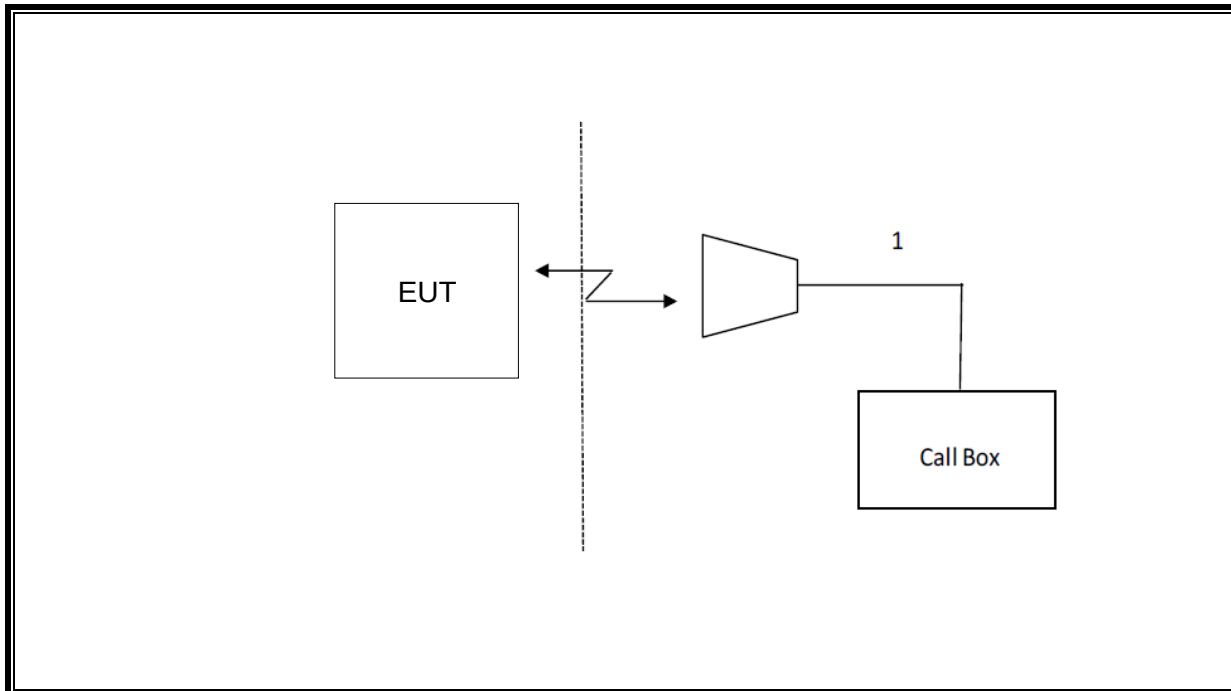
Note: The value of the antenna gain was declared by customer.

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	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	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

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

FCC: §2.1046, §22.913, §24.232, §27.50, §90.635

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.

90.635(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

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);

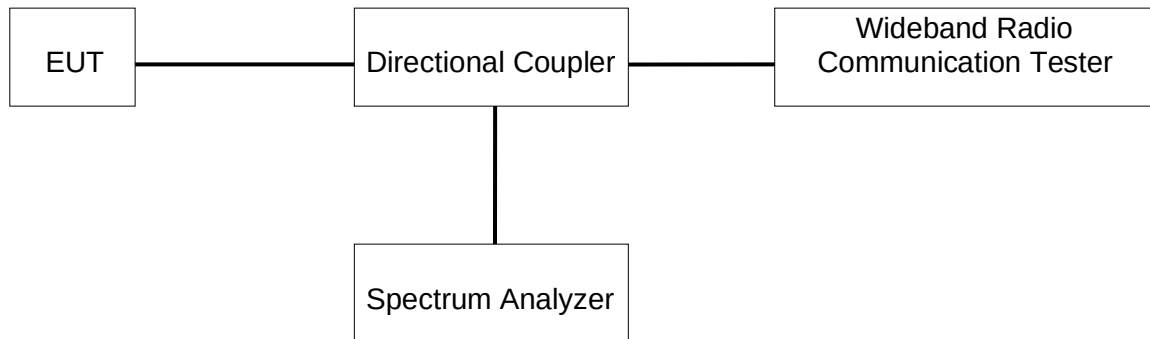
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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 measured maximum output power is as follows and maximum ERP/EIRP is tabulated in section 5.3.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	60.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

7.1.1.1. 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	22.27	21.89	22.51
		1	2	22.09	22.28	22.54
		1	5	22.39	22.51	22.69
		3	0	22.15	22.06	22.42
		3	1	22.15	22.49	22.57
		3	3	22.34	22.35	22.63
		6	0	21.11	21.33	21.58
	16QAM	1	0	21.24	21.43	21.31
		1	2	21.07	21.39	21.46
		1	5	21.18	21.29	21.47
		3	0	21.87	21.88	21.73
		3	1	21.94	21.89	21.82
		3	3	21.87	21.89	21.80
		6	0	20.03	20.39	20.85
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	22.36	22.19	22.38
		1	8	22.27	22.32	22.55
		1	14	22.15	22.55	22.62
		8	0	21.18	21.10	21.55
		8	4	21.24	21.32	21.33

	16QAM	8	7	21.15	21.35	21.68
		15	0	21.11	21.49	21.65
		1	0	22.24	21.81	22.73
		1	8	21.67	21.79	22.87
		1	14	21.86	22.06	22.86
		8	0	20.28	20.26	20.54
		8	4	20.35	20.50	20.68
		8	7	20.32	20.29	20.57
		15	0	20.14	20.52	20.58
				Channel No.	Channel No.	Channel No.
Bandwidth (MHz)	Modulation	RB size	RB offset	18625	18900	19175
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1852.50	1880.00	1907.50
5	QPSK	1	0	22.23	21.92	22.45
		1	12	22.11	22.28	22.73
		1	24	22.39	22.33	22.54
		12	0	21.26	21.22	21.64
		12	6	21.14	21.46	21.58
		12	13	21.28	21.22	21.60
		25	0	21.15	21.43	21.45
	16QAM	1	0	22.12	21.71	22.69
		1	12	21.71	21.89	22.72
		1	24	21.86	22.01	22.75
		12	0	20.23	20.30	20.40
		12	6	20.24	20.45	20.50
		12	13	20.42	20.30	20.47
		25	0	20.17	20.46	20.58
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	22.12	22.07	22.38
		1	24	22.12	22.37	22.51
		1	49	22.20	22.47	22.72
		25	0	21.02	21.34	21.47
		25	12	21.14	21.41	21.56
		25	25	21.18	21.19	21.43
		50	0	21.17	21.38	21.41
	16QAM	1	0	22.26	21.72	22.82
		1	24	21.94	21.99	22.76
		1	49	21.91	22.07	22.95
		25	0	20.15	20.29	20.45
		25	12	20.32	20.39	20.53
		25	25	20.36	20.30	20.63
		50	0	20.27	20.32	20.62
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	22.19	21.98	22.60
		1	38	22.09	22.41	22.77

		1	74	22.27	22.35	22.70
		36	0	21.21	21.28	21.54
		36	18	21.18	21.30	21.34
		36	37	21.11	21.40	21.65
		75	0	21.21	21.50	21.47
	16QAM	1	0	22.24	21.80	22.66
		1	38	21.66	22.00	22.69
		1	74	21.83	21.90	22.85
		36	0	20.25	20.32	20.42
		36	18	20.19	20.44	20.52
		36	37	20.29	20.41	20.38
		75	0	20.36	20.49	20.80
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	22.24	22.04	22.45
		1	49	22.12	22.38	22.65
		1	99	22.27	22.45	22.68
		50	0	21.13	21.22	21.58
		50	25	21.28	21.35	21.45
		50	50	21.14	21.34	21.55
		100	0	21.20	21.37	21.52
	16QAM	1	0	22.12	21.80	22.75
		1	49	21.81	21.88	22.82
		1	99	21.93	22.04	22.82
		50	0	20.25	20.39	20.51
		50	25	20.26	20.40	20.54
		50	50	20.34	20.40	20.53
		100	0	20.23	20.43	20.68

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	22.91	22.45	22.92
		1	2	22.79	22.35	22.94
		1	5	22.67	22.58	22.71
		3	0	21.66	22.49	22.74
		3	1	22.84	22.36	22.94
		3	3	22.53	22.57	22.67
		6	0	21.89	21.47	21.45
	16QAM	1	0	21.83	21.70	21.38
		1	2	21.91	21.62	21.33
		1	5	21.71	21.53	21.50
		3	0	21.85	21.75	21.99
		3	1	21.15	21.69	21.82
		3	3	21.15	21.84	21.74
		6	0	20.68	20.53	20.42
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	22.81	22.50	22.58
		1	8	22.78	22.42	22.95
		1	14	22.61	22.52	22.76
		8	0	21.79	21.52	21.30
		8	4	21.89	21.75	21.34
		8	7	21.86	21.56	21.49
		15	0	21.66	21.51	21.52
	16QAM	1	0	22.11	22.29	21.74
		1	8	21.31	21.98	21.89
		1	14	21.94	22.05	21.63
		8	0	20.85	20.73	20.68
		8	4	20.97	20.74	20.74
		8	7	20.88	20.83	20.70
		15	0	20.82	20.61	20.44
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	22.67	22.66	22.78
		1	12	22.70	22.51	22.83
		1	24	22.57	22.41	22.79
		12	0	21.94	21.70	21.55
		12	6	21.97	21.66	21.42
		12	13	21.80	21.62	21.57
		25	0	21.93	21.46	21.32
	16QAM	1	0	22.06	22.29	21.89
		1	12	21.31	21.91	21.88

		1	24	22.06	22.09	21.74
		12	0	20.88	20.88	20.75
		12	6	20.90	20.81	20.72
		12	13	20.97	20.73	20.68
		25	0	20.96	20.70	20.66
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	22.81	22.58	22.91
		1	24	22.89	22.36	22.81
		1	49	22.65	22.61	22.68
		25	0	21.93	21.50	21.27
		25	12	21.94	21.66	21.31
		25	25	21.88	21.59	21.61
		50	0	21.65	21.70	21.29
	16QAM	1	0	22.15	22.23	22.00
		1	24	21.16	22.06	21.80
		1	49	22.10	22.30	21.57
		25	0	20.76	20.97	20.47
		25	12	20.86	20.97	20.74
		25	25	20.98	20.76	20.65
		50	0	20.96	20.61	20.72
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	22.56	22.63	22.88
		1	38	22.71	22.27	22.83
		1	74	22.64	22.41	22.65
		36	0	21.88	21.62	21.44
		36	18	21.87	21.61	21.35
		36	37	21.91	21.45	21.40
		75	0	21.72	21.45	21.48
	16QAM	1	0	22.06	22.10	21.84
		1	38	21.14	22.09	21.80
		1	74	22.17	22.33	21.62
		36	0	20.80	20.84	20.70
		36	18	20.89	20.79	20.70
		36	37	20.89	20.84	20.70
		75	0	20.77	20.45	20.47
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	22.96	22.54	22.87
		1	49	22.80	22.39	22.82
		1	99	22.68	22.47	22.72
		50	0	21.93	21.61	21.42
		50	25	21.93	21.61	21.45
		50	50	21.94	21.56	21.46

	16QAM	100	0	21.78	21.57	21.43
		1	0	22.11	22.14	21.89
		1	49	21.23	21.99	21.76
		1	99	22.03	22.20	21.68
		50	0	20.91	20.86	20.60
		50	25	20.95	20.88	20.59
		50	50	20.96	20.75	20.60
		100	0	20.88	20.59	20.58

7.1.3. 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	22.97	22.95	23.09
		1	2	23.04	23.07	22.98
		1	5	23.01	23.00	22.88
		3	0	22.95	23.10	23.03
		3	1	23.05	22.86	23.03
		3	3	22.93	23.02	22.89
		6	0	22.06	21.93	22.07
	16QAM	1	0	22.05	21.98	22.05
		1	2	21.97	22.00	22.10
		1	5	22.14	22.10	22.14
		3	0	22.09	21.92	22.08
		3	1	22.23	21.96	21.91
		3	3	22.15	21.95	21.95
		6	0	21.30	21.06	20.86
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	22.77	22.97	23.09
		1	8	23.06	22.96	22.96
		1	14	23.00	23.00	23.01
		8	0	22.20	22.14	22.10
		8	4	22.18	22.13	21.95
		8	7	21.95	22.08	22.13
		15	0	21.89	22.10	22.04
	16QAM	1	0	22.09	22.66	22.76
		1	8	22.28	22.85	22.73
		1	14	22.26	22.78	22.71
		8	0	21.51	21.12	21.08
		8	4	21.45	21.13	21.06
		8	7	21.50	20.86	20.92
		15	0	20.99	21.03	20.79
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	22.97	22.98	22.92
		1	12	22.89	23.03	22.87
		1	24	22.94	23.10	23.10
		12	0	21.98	22.11	22.09
		12	6	22.00	21.98	21.95
		12	13	21.96	22.06	22.21
		25	0	22.14	21.87	22.00
	16QAM	1	0	22.21	22.80	22.60
		1	12	22.20	22.81	22.63

		1	24	22.17	22.64	22.65
		12	0	21.31	21.16	20.99
		12	6	21.55	21.27	20.98
		12	13	21.36	21.15	21.01
		25	0	20.91	20.97	20.78
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	22.88	23.04	22.99
		1	24	22.95	22.97	22.95
		1	49	23.00	22.96	23.00
		25	0	22.10	22.05	21.99
		25	12	22.10	22.06	22.03
		25	25	22.10	22.06	22.10
		50	0	22.00	21.95	21.91
	16QAM	1	0	22.15	22.73	22.71
		1	24	22.26	22.84	22.63
		1	49	22.11	22.69	22.61
		25	0	21.46	21.09	20.98
		25	12	21.47	21.14	21.00
		25	25	21.50	21.01	21.00
		50	0	20.99	21.08	20.87

7.1.4. 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	23.09	23.09	22.85
		1	2	22.95	22.93	22.85
		1	5	22.86	23.15	23.10
		3	0	22.99	23.10	22.99
		3	1	22.93	22.76	22.88
		3	3	22.87	23.16	22.92
		6	0	21.93	22.06	21.89
	16QAM	1	0	21.92	22.05	21.87
		1	2	21.76	22.04	22.03
		1	5	22.04	22.14	22.14
		3	0	22.02	22.20	22.06
		3	1	21.95	22.27	22.05
		3	3	21.83	22.21	22.05
		6	0	20.89	21.26	20.74
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	22.84	23.16	22.91
		1	8	23.03	22.80	22.87
		1	14	22.98	23.21	22.97
		8	0	21.95	22.10	21.95
		8	4	22.04	22.18	22.03
		8	7	21.81	22.01	22.05
		15	0	21.85	22.10	22.12
	16QAM	1	0	21.71	22.81	22.82
		1	8	21.72	22.52	22.44
		1	14	21.74	22.65	22.57
		8	0	20.97	21.06	20.90
		8	4	21.02	21.06	20.99
		8	7	20.98	21.31	20.75
		15	0	20.85	20.86	21.34
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	22.97	23.01	23.08
		1	12	22.91	22.99	23.07
		1	24	22.85	23.03	23.07
		12	0	21.86	22.09	22.00
		12	6	21.92	22.16	22.16
		12	13	22.04	22.15	21.99
		25	0	21.82	22.24	22.01
	16QAM	1	0	21.95	22.69	22.63
		1	12	21.64	22.52	22.48

		1	24	21.89	22.94	22.77
		12	0	21.01	21.11	20.94
		12	6	21.13	21.15	20.85
		12	13	20.89	21.28	20.90
		25	0	20.86	21.02	21.39
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	22.94	23.02	23.00
		1	24	22.89	22.89	22.96
		1	49	22.91	23.06	23.02
		25	0	21.91	22.14	22.02
		25	12	21.91	22.13	22.03
		25	25	21.90	22.13	22.02
		50	0	21.88	22.13	22.01
	16QAM	1	0	21.83	22.76	22.72
		1	24	21.71	22.46	22.46
		1	49	21.85	22.80	22.69
		25	0	21.01	21.18	20.87
		25	12	20.99	21.20	20.88
		25	25	21.03	21.21	20.88
		50	0	20.85	20.89	21.43

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	22.25	21.91	22.50
		1	2	22.03	22.31	22.63
		1	5	22.40	22.44	22.56
		3	0	22.16	22.05	22.59
		3	1	22.07	22.25	22.52
		3	3	22.20	22.56	22.56
		6	0	21.26	21.29	21.59
	16QAM	1	0	21.34	21.27	21.68
		1	2	21.07	21.46	21.61
		1	5	21.19	21.25	21.48
		3	0	21.87	21.79	21.77
		3	1	21.71	21.78	21.87
		3	3	21.86	22.00	21.92
		6	0	20.23	20.56	20.75
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	22.11	21.97	22.35
		1	8	22.00	22.27	22.76
		1	14	22.37	22.44	22.57
		8	0	21.13	21.33	21.68
		8	4	21.39	21.36	21.53
		8	7	21.00	21.21	21.69
		15	0	21.20	21.52	21.38
	16QAM	1	0	22.19	21.80	22.81
		1	8	21.74	22.03	22.95
		1	14	21.86	22.04	22.83
		8	0	20.14	20.28	20.39
		8	4	20.23	20.25	20.67
		8	7	20.21	20.44	20.44
		15	0	20.26	20.55	20.67
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	22.18	22.06	22.30
		1	12	22.06	22.33	22.59
		1	24	22.13	22.50	22.74
		12	0	21.24	21.10	21.68
		12	6	21.29	21.25	21.48
		12	13	21.24	21.23	21.48
		25	0	21.11	21.45	21.58
	16QAM	1	0	21.99	21.92	22.88
		1	12	21.68	21.99	22.80

		1	24	21.93	22.17	22.78
		12	0	20.22	20.35	20.53
		12	6	20.19	20.42	20.58
		12	13	20.29	20.41	20.53
		25	0	20.30	20.29	20.69
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	22.37	22.19	22.39
		1	24	22.20	22.28	22.70
		1	49	22.29	22.54	22.69
		25	0	21.12	21.30	21.61
		25	12	21.16	21.49	21.46
		25	25	21.21	21.35	21.49
		50	0	21.19	21.52	21.44
	16QAM	1	0	22.22	21.70	22.69
		1	24	21.76	21.95	22.93
		1	49	21.85	22.08	22.87
		25	0	20.23	20.38	20.62
		25	12	20.11	20.41	20.52
		25	25	20.27	20.49	20.67
		50	0	20.21	20.44	20.63
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	22.36	22.02	22.40
		1	38	21.97	22.29	22.72
		1	74	22.15	22.56	22.82
		36	0	21.16	21.32	21.60
		36	18	21.25	21.30	21.56
		36	37	21.20	21.31	21.55
		75	0	21.12	21.38	21.41
	16QAM	1	0	22.04	21.67	22.78
		1	38	21.74	21.98	22.75
		1	74	21.84	22.06	22.92
		36	0	20.30	20.25	20.43
		36	18	20.35	20.39	20.58
		36	37	20.31	20.35	20.43
		75	0	20.21	20.41	20.77
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	22.24	22.04	22.45
		1	49	22.12	22.38	22.65
		1	99	22.27	22.45	22.68
		50	0	21.13	21.22	21.58
		50	25	21.28	21.35	21.58
		50	50	21.14	21.34	21.55

	16QAM	100	0	21.20	21.37	21.52
		1	0	22.12	21.80	22.75
		1	49	21.81	21.88	22.82
		1	99	21.93	22.04	22.82
		50	0	20.25	20.39	20.51
		50	25	20.26	20.40	20.54
		50	50	20.34	20.40	20.53
		100	0	20.23	20.43	20.68

7.1.6. LTE Band 26(814-824 MHz)

LTE FDD B26				Conducted Power(dBm)		
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
1.4MHz	QPSK	1	0	22.70	22.55	22.39
		1	2	22.81	22.86	22.94
		1	5	22.87	22.47	22.65
		3	0	21.79	22.20	22.45
		3	1	21.92	21.90	22.20
		3	3	21.70	22.18	22.04
		6	0	21.59	22.35	22.40
	16QAM	1	0	22.16	22.07	22.32
		1	2	22.43	22.38	22.17
		1	5	22.46	22.32	21.80
		3	0	21.41	21.45	21.37
		3	1	21.22	21.39	21.50
		3	3	21.31	21.25	21.05
		6	0	20.84	20.93	21.22
3MHz	QPSK	1	0	22.89	22.91	22.99
		1	8	22.86	22.58	22.71
		1	14	22.78	22.38	22.63
		8	0	21.56	22.24	22.21
		8	4	21.95	22.04	22.43
		8	7	21.79	22.42	22.05
		15	0	21.60	22.39	22.39
	16QAM	1	0	22.05	22.15	22.31
		1	8	22.37	22.33	22.30
		1	14	22.39	22.40	21.84
		8	0	21.42	21.37	21.28
		8	4	21.41	21.18	21.42
		8	7	21.17	21.05	21.04
		15	0	20.87	21.01	21.31
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
5MHz	QPSK	1	0	22.84	22.89	22.94
		1	12	22.92	22.74	22.68
		1	24	22.87	22.56	22.97
		12	0	21.71	22.23	22.33
		12	6	21.90	22.00	22.30
		12	13	21.76	22.31	22.02
		25	0	21.68	22.26	22.48
	16QAM	1	0	22.17	22.07	22.43
		1	12	22.28	22.44	22.26
		1	24	22.44	22.45	21.93
		12	0	21.44	21.36	21.35
		12	6	21.36	21.26	21.47
		12	13	21.31	21.16	21.11
		25	0	20.96	21.01	21.37

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
10MHz	QPSK	1	0	N/A	22.85	N/A
		1	24	N/A	22.91	N/A
		1	49	N/A	22.95	N/A
		25	0	N/A	22.07	N/A
		25	12	N/A	22.00	N/A
		25	25	N/A	22.08	N/A
		50	0	N/A	21.92	N/A
	16QAM	1	0	N/A	22.37	N/A
		1	24	N/A	22.33	N/A
		1	49	N/A	22.42	N/A
		25	0	N/A	20.97	N/A
		25	12	N/A	21.05	N/A
		25	25	N/A	21.00	N/A
		50	0	N/A	21.50	N/A

7.1.7. LTE Band 26(824-849)

LTE FDD B26				Conducted Power(dBm)		
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
1.4MHz	QPSK	1	0	22.85	23.17	23.07
		1	2	22.69	23.11	23.15
		1	5	22.92	23.27	22.91
		3	0	22.83	23.25	22.99
		3	1	22.78	23.02	23.08
		3	3	22.76	23.24	23.16
		6	0	21.90	22.21	22.13
	16QAM	1	0	21.89	22.06	22.21
		1	2	21.84	22.37	22.14
		1	5	21.78	22.16	22.35
		3	0	22.17	22.21	22.21
		3	1	22.17	22.37	22.45
		3	3	22.33	22.39	21.97
		6	0	20.87	21.14	21.33
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
3MHz	QPSK	1	0	22.84	23.22	23.05
		1	12	22.82	23.03	23.32
		1	24	23.01	23.21	23.03
		12	0	21.98	22.27	22.06
		12	6	21.83	22.04	22.31
		12	13	21.83	22.32	22.22
		25	0	21.81	22.23	22.49
	16QAM	1	0	22.22	22.27	22.30
		1	12	22.38	22.46	22.23
		1	24	22.43	22.37	22.09
		12	0	21.30	21.30	21.25
		12	6	21.43	21.24	21.45
		12	13	21.50	21.28	21.22
		25	0	21.19	21.18	21.31
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
5MHz	QPSK	1	0	22.71	23.17	23.13
		1	24	22.69	22.98	23.23
		1	49	22.98	23.12	23.15
		25	0	21.73	22.23	22.08
		25	12	21.96	22.14	22.27
		25	25	21.98	22.20	22.07
		50	0	21.78	22.40	22.41
	16QAM	1	0	22.38	22.32	22.38
		1	24	22.22	22.40	22.49
		1	49	22.44	22.45	22.06
		25	0	21.32	21.34	21.35
		25	12	21.39	21.25	21.23
		25	25	21.33	21.21	21.17
		50	0	20.99	21.11	21.18

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
10MHz	QPSK	1	0	22.81	23.10	23.04
		1	38	22.92	23.06	23.17
		1	74	22.95	23.09	23.16
		36	0	21.81	22.15	22.26
		36	18	21.83	22.10	22.13
		36	37	21.86	22.34	22.33
		75	0	21.97	22.17	22.46
	16QAM	1	0	22.41	22.19	22.36
		1	38	22.19	22.39	22.28
		1	74	22.42	22.30	22.12
		36	0	21.46	21.29	21.14
		36	18	21.42	21.09	21.47
		36	37	21.42	21.24	21.30
		75	0	21.09	21.06	21.15
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
15MHz	QPSK	1	0	22.81	23.17	23.07
		1	49	22.77	23.08	23.23
		1	99	22.89	23.13	23.05
		50	0	21.84	22.18	22.17
		50	25	21.89	22.13	22.27
		50	50	21.84	22.22	22.19
		100	0	21.85	22.29	22.47
	16QAM	1	0	22.31	22.26	22.27
		1	49	22.29	22.44	22.35
		1	99	22.45	22.41	22.03
		50	0	21.45	21.27	21.25
		50	25	21.46	21.17	21.35
		50	50	21.46	21.26	21.28
		100	0	21.04	21.04	21.30

7.1.8. 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	21.46	22.34	21.57
		1	12	21.56	22.20	21.49
		1	24	21.79	22.17	21.37
		12	0	21.08	21.43	20.37
		12	6	20.93	21.28	20.39
		12	13	20.92	21.26	20.19
		25	0	20.97	21.30	20.33
	16QAM	1	0	21.26	21.47	21.61
		1	12	21.15	21.43	21.36
		1	24	21.41	21.56	21.64
		12	0	20.21	20.77	19.56
		12	6	19.89	20.65	19.35
		12	13	19.94	20.49	19.42
		25	0	20.01	20.64	19.51
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	21.74	22.46	21.46
		1	24	21.80	22.07	21.51
		1	49	21.76	22.25	21.59
		25	0	21.01	21.34	20.32
		25	12	20.90	21.35	20.39
		25	25	20.89	21.31	20.19
		50	0	20.95	21.31	20.31
	16QAM	1	0	21.01	21.98	21.56
		1	24	21.06	21.85	21.42
		1	49	21.19	21.64	21.68
		25	0	19.99	20.73	19.48
		25	12	20.05	20.58	19.32
		25	25	20.17	20.72	19.57
		50	0	19.91	20.49	19.50
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	21.48	22.37	21.73
		1	38	21.55	22.27	21.39
		1	74	21.82	22.21	21.66
		36	0	20.83	21.35	20.37
		36	18	21.09	21.34	20.34
		36	37	20.76	21.42	20.18
		75	0	21.00	21.43	20.42
	16QAM	1	0	21.03	21.54	21.58
		1	38	21.17	21.79	21.35

		1	74	21.33	21.67	21.53
		36	0	20.07	20.68	19.47
		36	18	20.05	20.53	19.37
		36	37	20.09	20.62	19.60
		75	0	19.74	20.73	19.40
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	21.61	22.41	21.58
		1	49	21.65	22.15	21.54
		1	99	21.76	22.14	21.51
		50	0	20.93	21.43	20.40
		50	25	20.94	21.38	20.26
		50	50	20.80	21.39	20.20
		100	0	20.90	21.43	20.30
	16QAM	1	0	21.16	21.55	21.52
		1	49	21.18	21.82	21.50
		1	99	21.29	21.36	21.60
		50	0	20.06	20.64	19.45
		50	25	20.02	20.56	19.47
		50	50	20.03	20.57	19.49
		100	0	19.88	20.62	19.47

7.1.9. LTE Band 66

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				131979	132322	132665
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1710.70	1745.00	1779.30
1.4	QPSK	1	0	23.09	22.56	22.24
		1	2	22.87	22.27	22.41
		1	5	22.81	22.49	22.23
		3	0	22.96	22.60	22.21
		3	1	22.76	22.56	22.32
		3	3	22.62	22.37	22.39
		6	0	21.90	21.36	21.17
	16QAM	1	0	21.73	21.44	21.39
		1	2	22.00	21.33	21.30
		1	5	21.54	21.35	21.17
		3	0	21.72	21.95	21.88
		3	1	21.53	21.37	21.98
		3	3	21.64	21.41	21.89
		6	0	20.79	20.29	20.16
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				131987	132322	132657
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1711.50	1745.00	1778.50
3	QPSK	1	0	23.03	22.33	22.23
		1	8	22.98	22.56	22.28
		1	14	22.68	22.49	22.18
		8	0	21.84	21.30	21.43
		8	4	21.83	21.36	21.38
		8	7	21.91	21.24	21.22
		15	0	21.63	21.40	21.20
	16QAM	1	0	22.32	21.93	22.08
		1	8	22.48	21.36	22.03
		1	14	22.37	21.34	21.87
		8	0	20.90	20.64	20.38
		8	4	20.97	20.74	20.42
		8	7	20.79	20.61	20.28
		15	0	20.83	20.41	20.21
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				131997	132322	132647
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1712.50	1745.00	1777.50
5	QPSK	1	0	22.96	22.51	22.50
		1	12	22.83	22.29	22.27
		1	24	22.58	22.57	22.38
		12	0	21.79	21.33	21.30
		12	6	21.89	21.47	21.25
		12	13	21.83	21.45	21.28
		25	0	21.70	21.37	21.04
	16QAM	1	0	22.47	21.96	22.11
		1	12	22.28	21.65	22.04

		1	24	22.31	21.50	21.95
		12	0	20.72	20.75	20.44
		12	6	20.77	20.75	20.52
		12	13	20.78	20.51	20.45
		25	0	20.85	20.32	20.19
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				132022	132322	132622
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1715.00	1745.00	1775.00
10	QPSK	1	0	23.05	22.50	22.31
		1	24	22.86	22.43	22.23
		1	49	22.70	22.46	22.28
		25	0	21.95	21.37	21.37
		25	12	21.75	21.47	21.48
		25	25	21.80	21.28	21.27
		50	0	21.69	21.53	21.24
	16QAM	1	0	22.23	22.02	21.92
		1	24	22.26	21.66	21.75
		1	49	22.40	21.47	21.86
		25	0	20.91	20.57	20.36
		25	12	20.87	20.69	20.45
		25	25	20.76	20.67	20.39
		50	0	20.73	20.45	20.39
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				132047	132322	132597
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1717.50	1745.00	1772.50
15	QPSK	1	0	23.12	22.39	22.41
		1	38	22.78	22.38	22.49
		1	74	22.59	22.53	22.48
		36	0	21.95	21.50	21.36
		36	18	21.95	21.45	21.25
		36	37	21.89	21.47	21.43
		75	0	21.53	21.49	21.29
	16QAM	1	0	22.23	22.07	21.94
		1	38	22.11	21.62	21.83
		1	74	22.35	21.30	21.86
		36	0	20.98	20.68	20.37
		36	18	20.75	20.77	20.24
		36	37	20.74	20.39	20.34
		75	0	20.90	20.39	20.33
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				132072	132322	132572
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				1720.00	1745.00	1770.00
20	QPSK	1	0	23.05	22.46	22.35
		1	49	22.89	22.41	22.36
		1	99	22.66	22.44	22.33
		50	0	21.88	21.39	21.30
		50	25	21.88	21.49	21.34
		50	50	21.88	21.39	21.32

	16QAM	100	0	21.66	21.48	21.16
		1	0	22.05	21.98	22.05
		1	49	22.11	21.51	21.89
		1	99	22.10	21.40	21.99
		50	0	20.86	20.65	20.40
		50	25	20.89	20.63	20.38
		50	50	20.88	20.52	20.34
		100	0	20.82	20.43	20.29

7.1.10. LTE Band 71

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				133147	133297	133447
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				665.50	680.50	695.50
5MHz	QPSK	1	0	22.85	22.70	22.81
		1	12	23.29	22.77	22.90
		1	24	23.04	23.08	22.91
		12	0	22.18	21.88	22.03
		12	6	22.27	21.78	21.90
		12	13	22.42	21.78	21.90
		25	0	22.18	21.67	21.80
	16QAM	1	0	22.65	22.10	22.35
		1	12	22.80	22.46	22.51
		1	24	22.47	22.35	22.94
		12	0	21.22	21.30	20.91
		12	6	21.31	21.30	21.11
		12	13	21.08	21.36	20.91
		25	0	21.33	20.55	20.82
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				133172	133297	133422
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				668.00	680.50	693.00
10MHz	QPSK	1	0	22.67	22.72	22.66
		1	24	23.42	22.87	22.91
		1	49	23.21	23.19	22.96
		25	0	22.39	21.70	21.92
		25	12	22.22	21.91	22.09
		25	25	22.41	21.82	22.03
		50	0	22.23	21.67	21.90
	16QAM	1	0	22.51	22.23	22.26
		1	24	22.80	22.29	22.40
		1	49	22.60	22.33	22.82
		25	0	21.27	21.42	20.94
		25	12	21.25	21.27	21.03
		25	25	21.11	21.40	20.92
		50	0	21.19	20.69	20.76
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				133197	133297	133397
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				670.50	680.50	690.50
15MHz	QPSK	1	0	22.74	22.93	22.83
		1	38	23.19	22.73	23.04
		1	74	23.10	22.91	23.07
		36	0	22.13	21.91	21.91
		36	18	22.25	21.98	22.15
		36	37	22.15	21.76	21.95
		75	0	22.34	21.85	21.87
	16QAM	1	0	22.63	21.97	22.36
		1	38	23.02	22.25	22.39
		1	74	22.66	22.36	22.98
		36	0	21.32	21.45	20.90
		36	18	21.12	21.34	20.85
		36	37	21.25	21.37	20.95

		75	0	21.37	20.58	21.00
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				133222	133322	133372
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				673.00	683.00	688.00
20MHz	QPSK	1	0	22.79	22.80	22.81
		1	49	23.33	22.87	22.96
		1	99	23.07	23.05	23.04
		50	0	22.26	21.84	22.03
		50	25	22.32	21.83	22.04
		50	50	22.29	21.84	22.04
		100	0	22.21	21.72	21.79
	16QAM	1	0	22.61	22.10	22.29
		1	49	22.89	22.37	22.44
		1	99	22.51	22.31	22.90
		50	0	21.20	21.31	20.94
		50	25	21.20	21.33	21.00
		50	50	21.21	21.35	21.00
		100	0	21.28	20.67	20.86

7.2. PEAK TO AVERAGE RADIO

LIMITS

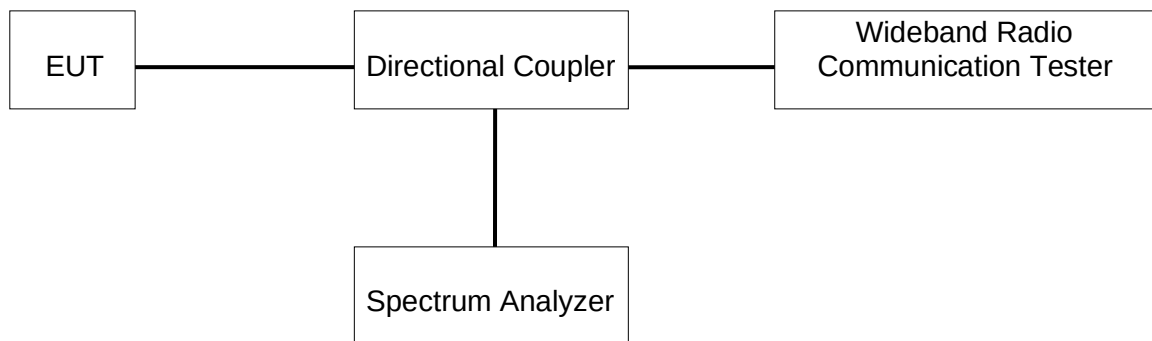
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01;

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The PAR was measured on the Spectrum Analyzer.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	60.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Middle was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

Please refer to Appendix LTE.

7.3. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049

LIMITS

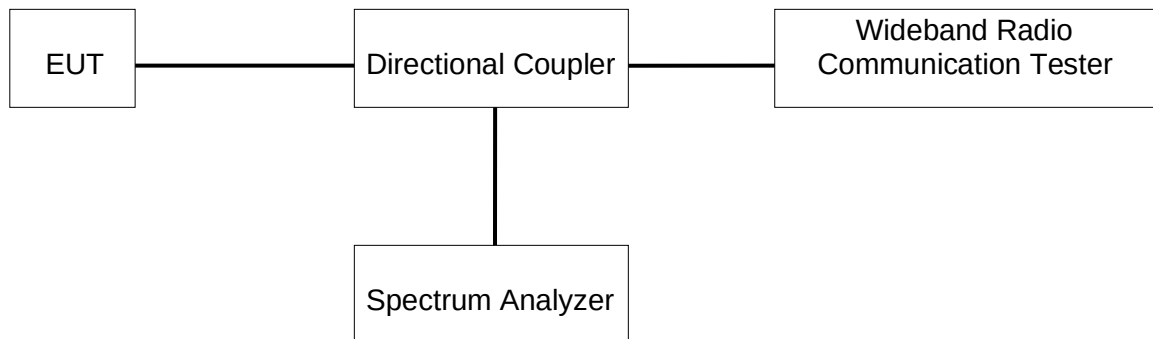
For reporting purposes only.

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01)

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	60.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

There is no limit required and power is the same for low, middle and high channel, therefore, only middle channel was tested.

Please refer to Appendix LTE.

7.4. BAND EDGE EMISSIONS

RULE PART(S)

FCC §2.1051, §22.917, §24.238, §27.53, §90.691

LIMITS

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.

FCC: §27.53 (m)(4)

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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC: §90.691 (a)(1)

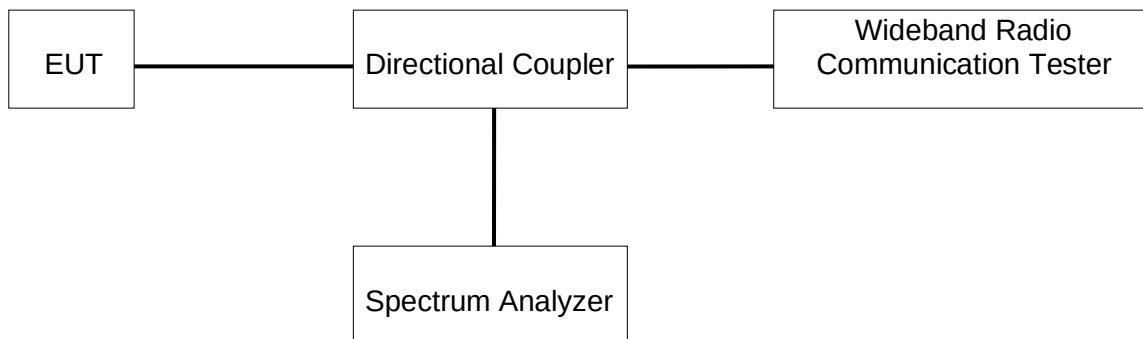
For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01

The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

- a) Set the RBW = 1 ~ 1.5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = Auto;
- e) Detector = RMS;
- f) Ensure that the number of measurement points $\geq 2 \times$ Span/RBW;
- g) Trace mode = Average (100);

TEST SETUP**TEST ENVIRONMENT**

Temperature	23.8°C	Relative Humidity	60.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Please refer to Appendix LTE.

7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL

RULE PART(S)

FCC: §2.1051, §22.901, §22.917, §24.238, §27.53, §90.691

LIMITS

FCC: §22.901, §22.917, §24.238, §90.691

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.

TEST PROCEDURE

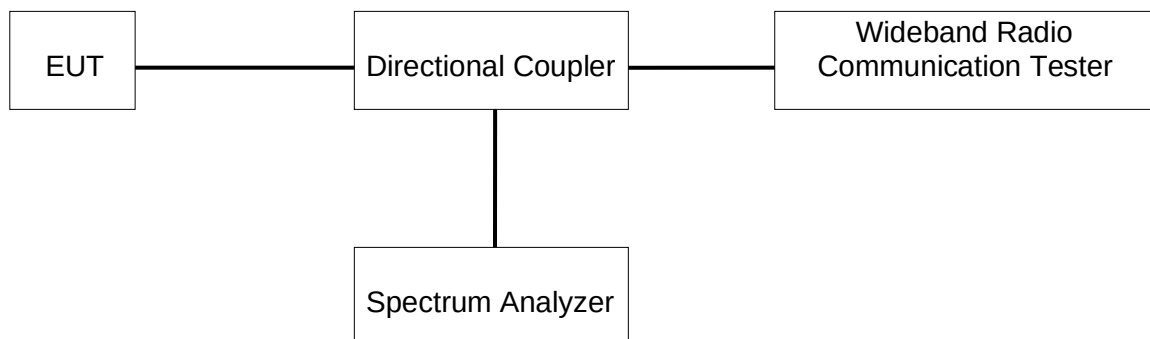
Per KDB 971168 D01 Power Meas License Digital Systems v03r01

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

- a) Set the RBW = 100 kHz for emission below 1GHz and 1MHz for emissions above 1GHz (Tests were performed 1 MHz [Worst case], to sweep 1 time for all frequency range)
- b) Set VBW $\geq 3 \times$ RBW;
- c) Set span ≥ 1.5 times the OBW;
- d) Sweep time = auto couple;
- e) Detector = rms;
- f) Ensure that the number of measurement points = Max (40001);
- g) Trace mode = average (LTE 5), Maxhold (LTE Band7);

Note: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

TEST SETUP



TEST ENVIRONMENT

Temperature	23.8°C	Relative Humidity	60.8%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

Please refer to Appendix LTE.

7.6. FREQUENCY STABILITY

Rule Part:

FCC: §2.1055, §22.355, §24.235, §27.54, §90.213

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

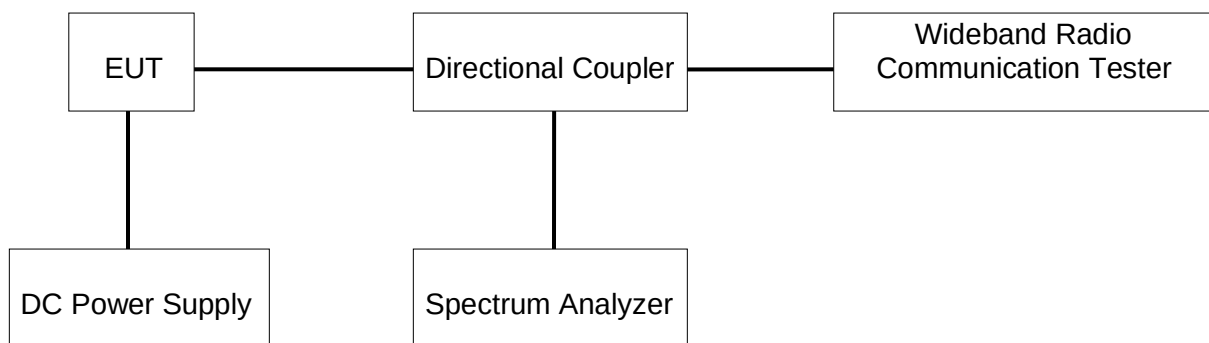
§90.213, transmitters used in the services governed by this part must have a minimum frequency stability ± 2.5 ppm

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	45 % - 75 %	/
Atmospheric Pressure	100 kPa ~102 kPa	/
Temperature	T_N (Normal Temperature): 24.5 °C	T_L (Low Temperature): -30 °C
		T_H (High Temperature): 50 °C
Supply Voltage	V_N (Normal Voltage): DC 3.87 V	V_L (Low Voltage): DC 3.3V
		V_H (High Voltage): DC 4.5 V

TEST SETUP



RESULTS

The peak frequency error is recorded (worst-case).

Please refer to Appendix LTE.

8. RADIATED SPURIOUS EMISSIONS

LIMIT

FCC: §27.53 (m) LTE (B7/41)

At least $55 + 10 \log (P)$ 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.

FCC: §27.53 (g) LTE (B12/71)

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.

FCC: §24.238(a) LTE (B2/25)

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.

FCC: §90.691 LTE (B26)

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.

FCC: §22.917(a) LTE (B5/26)

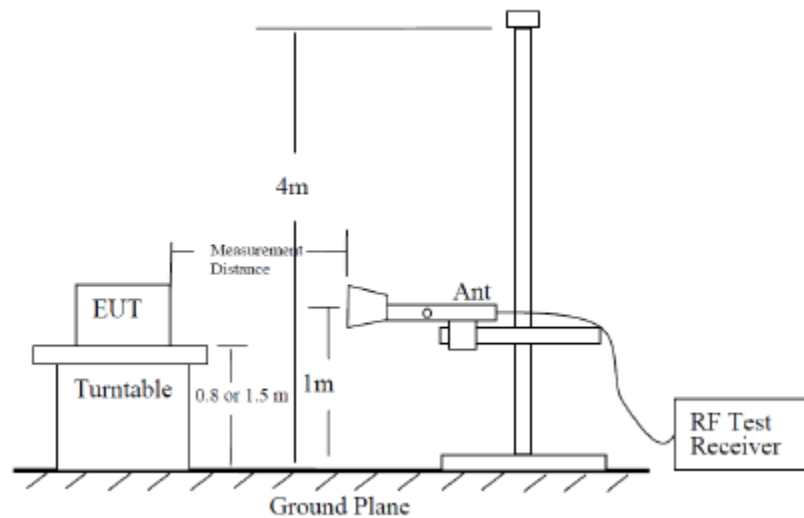
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

FCC: §27.53(h) LTE (B4/66)

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.

TEST PROCEDURE

Following the test configuration shown below, radiated emissions measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in section 5.5.1 of ANSI C63.26-2015. The field strength measurement method by using a test site validated to the requirement of ANSI C63.4 is an alternative method to the substitution measurement.



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

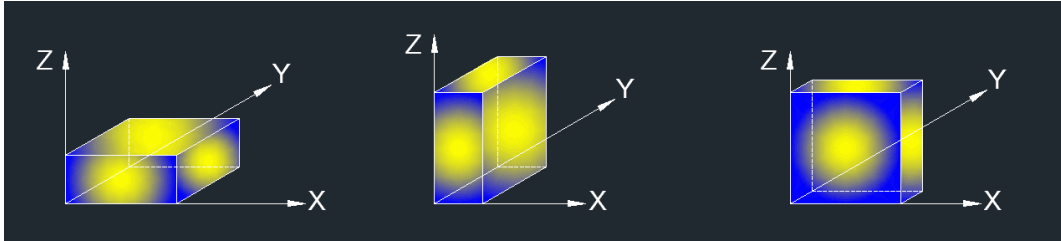
- $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}.$
- $E \text{ (dB}\mu\text{V/m)}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

So, from d)

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

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

X axis, Y axis, Z axis:



Note: The EUT was investigated in three orthogonal orientations X/Y/Z on ANT0 and ANT3 to determine the worst-case orientation. X orientation is finally determined the worst.

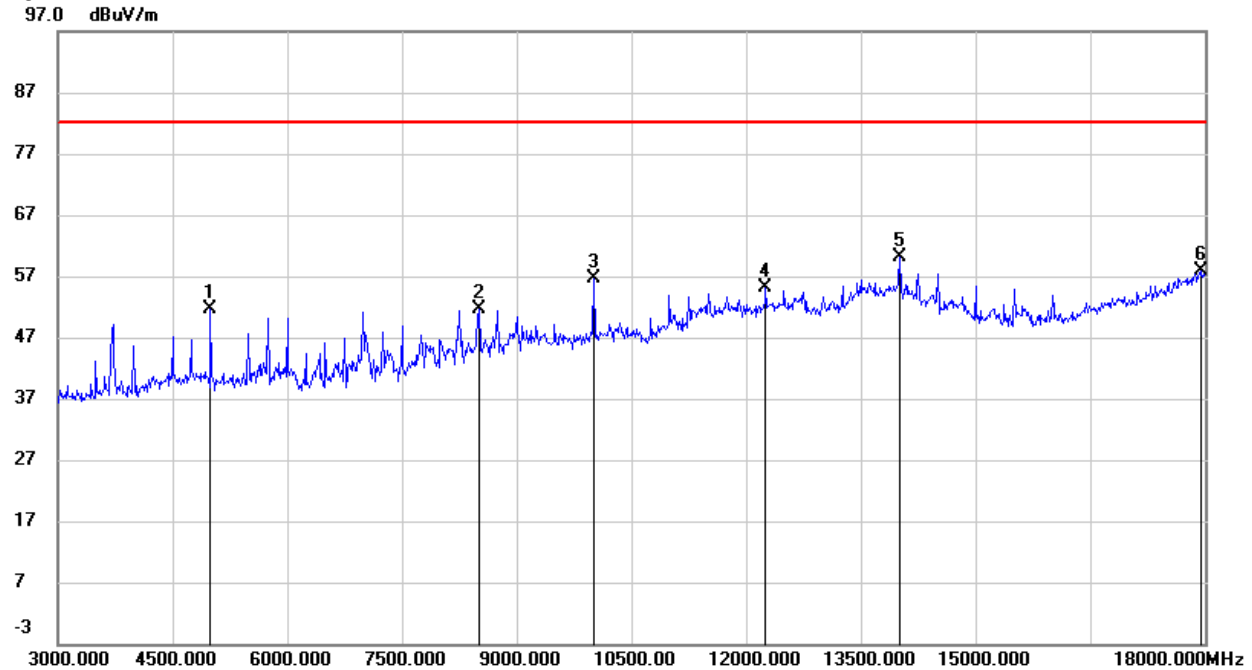
TEST ENVIRONMENT

Temperature	24.4°C	Relative Humidity	62.5%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.87 V

RESULTS

8.1.1. LTE 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	50.70	1.03	51.73	82.25	-30.52	peak
2	8505.000	43.33	8.34	51.67	82.25	-30.58	peak
3	10005.000	44.01	12.57	56.58	82.25	-25.67	peak
4	12255.000	37.24	18.00	55.24	82.25	-27.01	peak
5	14010.000	37.46	22.63	60.09	82.25	-22.16	peak
6	17940.000	29.95	28.01	57.96	82.25	-24.29	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	3990.000	53.23	-1.68	51.55	82.25	-30.70	peak
2	6000.000	51.29	4.21	55.50	82.25	-26.75	peak
3	10005.000	44.88	11.88	56.76	82.25	-25.49	peak
4	12690.000	36.05	17.22	53.27	82.25	-28.98	peak
5	14010.000	33.57	21.05	54.62	82.25	-27.63	peak
6	17370.000	31.82	24.38	56.20	82.25	-26.05	peak

QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
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	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4995.000	50.47	1.03	51.50	82.25	-30.75	peak
2	8505.000	45.55	8.34	53.89	82.25	-28.36	peak
3	10005.000	43.27	12.57	55.84	82.25	-26.41	peak
4	12255.000	38.24	18.00	56.24	82.25	-26.01	peak
5	14010.000	37.26	22.63	59.89	82.25	-22.36	peak
6	17805.000	30.86	27.30	58.16	82.25	-24.09	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	50.69	4.21	54.90	82.25	-27.35	peak
2	8505.000	44.19	8.93	53.12	82.25	-29.13	peak
3	10005.000	44.68	11.88	56.56	82.25	-25.69	peak
4	12300.000	36.08	17.19	53.27	82.25	-28.98	peak
5	14010.000	33.55	21.05	54.60	82.25	-27.65	peak
6	17220.000	32.57	24.25	56.82	82.25	-25.43	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	3795.000	55.85	-2.86	52.99	82.25	-29.26	peak
2	6000.000	48.69	3.21	51.90	82.25	-30.35	peak
3	10005.000	42.76	12.57	55.33	82.25	-26.92	peak
4	12495.000	37.87	18.16	56.03	82.25	-26.22	peak
5	14010.000	35.35	22.63	57.98	82.25	-24.27	peak
6	17925.000	30.66	27.93	58.59	82.25	-23.66	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	6000.000	51.47	4.21	55.68	82.25	-26.57	peak
2	7500.000	45.77	7.88	53.65	82.25	-28.60	peak
3	10005.000	44.83	11.88	56.71	82.25	-25.54	peak
4	12495.000	36.22	17.26	53.48	82.25	-28.77	peak
5	13815.000	33.75	20.84	54.59	82.25	-27.66	peak
6	17715.000	31.08	25.41	56.49	82.25	-25.76	peak

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

8.1.2. 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	6000.000	48.03	3.21	51.24	82.25	-31.01	peak
2	8505.000	44.92	8.34	53.26	82.25	-28.99	peak
3	10005.000	43.78	12.57	56.35	82.25	-25.90	peak
4	12495.000	38.93	18.16	57.09	82.25	-25.16	peak
5	14010.000	36.49	22.63	59.12	82.25	-23.13	peak
6	18000.000	29.54	28.33	57.87	82.25	-24.38	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	51.98	2.23	54.21	82.25	-28.04	peak
2	6000.000	51.13	4.21	55.34	82.25	-26.91	peak
3	7500.000	43.86	7.88	51.74	82.25	-30.51	peak
4	10005.000	44.73	11.88	56.61	82.25	-25.64	peak
5	14505.000	34.35	20.27	54.62	82.25	-27.63	peak
6	17790.000	29.98	25.88	55.86	82.25	-26.39	peak

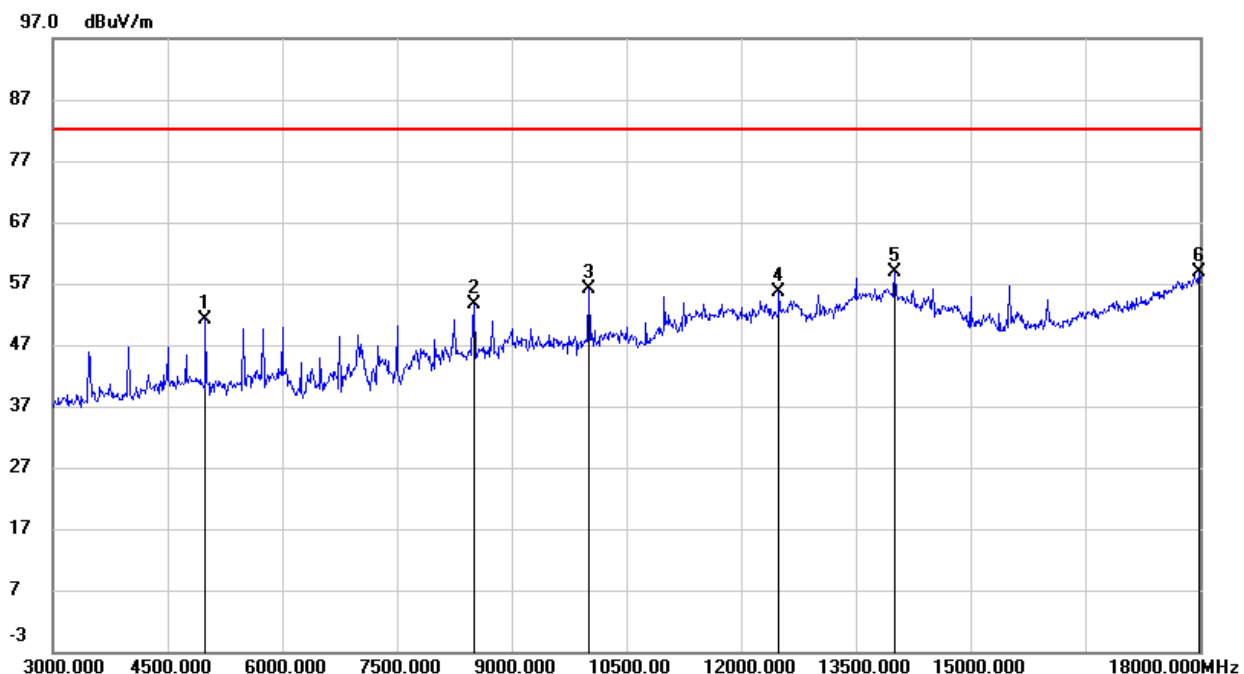
QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	51.80	1.03	52.83	82.25	-29.42	peak
2	8505.000	43.49	8.34	51.83	82.25	-30.42	peak
3	10005.000	43.88	12.57	56.45	82.25	-25.80	peak
4	12255.000	38.42	18.00	56.42	82.25	-25.83	peak
5	14010.000	35.80	22.63	58.43	82.25	-23.82	peak
6	17925.000	29.82	27.93	57.75	82.25	-24.50	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	3990.000	52.12	-1.68	50.44	82.25	-31.81	peak
2	6000.000	50.36	4.21	54.57	82.25	-27.68	peak
3	8505.000	43.87	8.93	52.80	82.25	-29.45	peak
4	10005.000	44.46	11.88	56.34	82.25	-25.91	peak
5	13890.000	33.74	20.93	54.67	82.25	-27.58	peak
6	17760.000	31.25	25.69	56.94	82.25	-25.31	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	1.03	51.04	82.25	-31.21	peak
2	8505.000	45.30	8.34	53.64	82.25	-28.61	peak
3	10005.000	43.46	12.57	56.03	82.25	-26.22	peak
4	12495.000	37.58	18.16	55.74	82.25	-26.51	peak
5	14010.000	36.35	22.63	58.98	82.25	-23.27	peak
6	17985.000	30.67	28.25	58.92	82.25	-23.33	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	46.84	2.23	49.07	82.25	-33.18	peak
2	7500.000	37.63	7.88	45.51	82.25	-36.74	peak
3	10005.000	38.26	11.88	50.14	82.25	-32.11	peak
4	12375.000	34.46	17.51	51.97	82.25	-30.28	peak
5	14685.000	34.25	20.02	54.27	82.25	-27.98	peak
6	17910.000	30.70	26.05	56.75	82.25	-25.50	peak

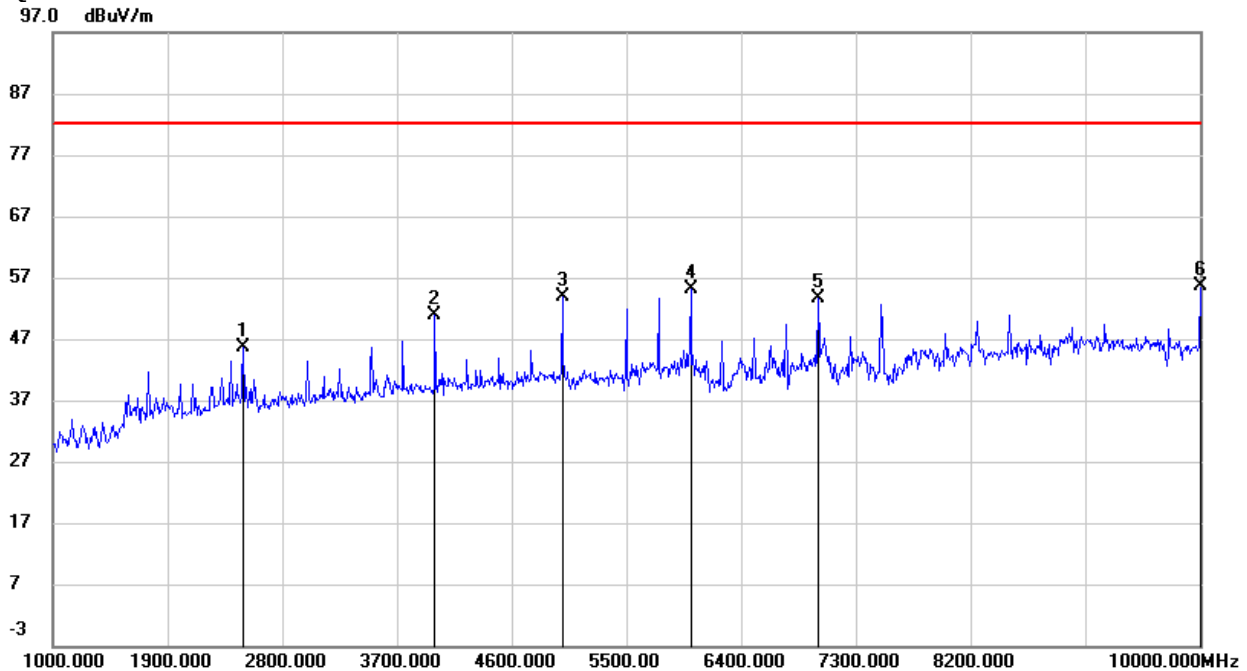
Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.1.3. 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	2494.000	53.02	-8.07	44.95	82.25	-37.30	peak
2	4996.000	50.53	0.62	51.15	82.25	-31.10	peak
3	6004.000	46.68	2.92	49.60	82.25	-32.65	peak
4	7498.000	43.07	6.97	50.04	82.25	-32.21	peak
5	8506.000	44.10	7.89	51.99	82.25	-30.26	peak
6	10000.000	42.29	12.11	54.40	82.25	-27.85	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	2494.000	52.80	-7.27	45.53	82.25	-36.72	peak
2	3997.000	53.28	-2.35	50.93	82.25	-31.32	peak
3	4996.000	51.98	1.82	53.80	82.25	-28.45	peak
4	6004.000	51.26	3.92	55.18	82.25	-27.07	peak
5	7003.000	45.91	7.79	53.70	82.25	-28.55	peak
6	10000.000	44.19	11.41	55.60	82.25	-26.65	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	2494.000	52.79	-8.07	44.72	82.25	-37.53	peak
2	3997.000	48.13	-3.45	44.68	82.25	-37.57	peak
3	4996.000	50.87	0.62	51.49	82.25	-30.76	peak
4	6004.000	46.44	2.92	49.36	82.25	-32.89	peak
5	7498.000	42.67	6.97	49.64	82.25	-32.61	peak
6	8506.000	44.62	7.89	52.51	82.25	-29.74	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	2494.000	52.62	-7.27	45.35	82.25	-36.90	peak
2	3997.000	52.76	-2.35	50.41	82.25	-31.84	peak
3	4996.000	51.45	1.82	53.27	82.25	-28.98	peak
4	6004.000	51.74	3.92	55.66	82.25	-26.59	peak
5	7003.000	47.16	7.79	54.95	82.25	-27.30	peak
6	10000.000	43.79	11.41	55.20	82.25	-27.05	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	2494.000	52.11	-8.07	44.04	82.25	-38.21	peak
2	4996.000	52.99	0.62	53.61	82.25	-28.64	peak
3	6004.000	47.37	2.92	50.29	82.25	-31.96	peak
4	7498.000	42.87	6.97	49.84	82.25	-32.41	peak
5	8506.000	43.83	7.89	51.72	82.25	-30.53	peak
6	10000.000	42.59	12.11	54.70	82.25	-27.55	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	52.19	-7.27	44.92	82.25	-37.33	peak
2	3997.000	50.14	-2.35	47.79	82.25	-34.46	peak
3	4996.000	51.55	1.82	53.37	82.25	-28.88	peak
4	6004.000	45.17	3.92	49.09	82.25	-33.16	peak
5	7498.000	40.68	7.47	48.15	82.25	-34.10	peak
6	8506.000	43.14	8.48	51.62	82.25	-30.63	peak

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

8.1.4. 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	2395.000	51.86	-8.05	43.81	82.25	-38.44	peak
2	4996.000	50.97	0.62	51.59	82.25	-30.66	peak
3	6004.000	47.14	2.92	50.06	82.25	-32.19	peak
4	7498.000	44.00	6.97	50.97	82.25	-31.28	peak
5	8506.000	45.50	7.89	53.39	82.25	-28.86	peak
6	10000.000	43.34	12.11	55.45	82.25	-26.80	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	53.22	-7.27	45.95	82.25	-36.30	peak
2	3997.000	52.50	-2.35	50.15	82.25	-32.10	peak
3	4996.000	51.88	1.82	53.70	82.25	-28.55	peak
4	6004.000	50.82	3.92	54.74	82.25	-27.51	peak
5	7498.000	45.75	7.47	53.22	82.25	-29.03	peak
6	10000.000	43.97	11.41	55.38	82.25	-26.87	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	2494.000	53.04	-8.07	44.97	82.25	-37.28	peak
2	4996.000	50.25	0.62	50.87	82.25	-31.38	peak
3	5752.000	48.01	1.94	49.95	82.25	-32.30	peak
4	6751.000	45.08	4.60	49.68	82.25	-32.57	peak
5	8506.000	44.43	7.89	52.32	82.25	-29.93	peak
6	10000.000	43.48	12.11	55.59	82.25	-26.66	peak

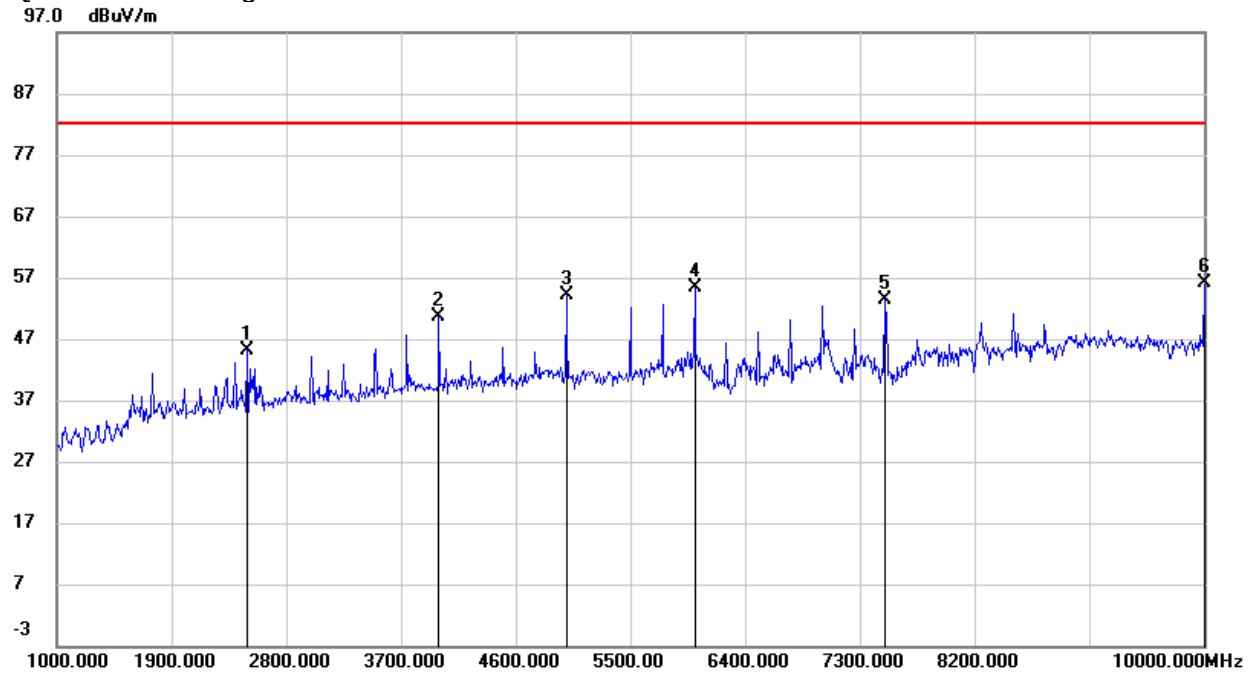
QPSK-10 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	53.46	-7.27	46.19	82.25	-36.06	peak
2	3997.000	53.36	-2.35	51.01	82.25	-31.24	peak
3	4996.000	52.48	1.82	54.30	82.25	-27.95	peak
4	5752.000	52.53	3.04	55.57	82.25	-26.68	peak
5	7003.000	45.88	7.79	53.67	82.25	-28.58	peak
6	10000.000	44.11	11.41	55.52	82.25	-26.73	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	2494.000	52.51	-8.07	44.44	82.25	-37.81	peak
2	4996.000	50.76	0.62	51.38	82.25	-30.87	peak
3	6004.000	48.09	2.92	51.01	82.25	-31.24	peak
4	7498.000	43.32	6.97	50.29	82.25	-31.96	peak
5	8506.000	44.34	7.89	52.23	82.25	-30.02	peak
6	10000.000	42.99	12.11	55.10	82.25	-27.15	peak

QPSK-10 MHz-High Channel- Vertical



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

8.1.5. 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	50.06	1.03	51.09	82.25	-31.16	peak
2	6990.000	43.61	7.47	51.08	82.25	-31.17	peak
3	10005.000	44.10	12.57	56.67	82.25	-25.58	peak
4	12255.000	37.92	18.00	55.92	82.25	-26.33	peak
5	14010.000	35.05	22.63	57.68	82.25	-24.57	peak
6	17970.000	29.84	28.17	58.01	82.25	-24.24	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	6000.000	51.23	4.21	55.44	82.25	-26.81	peak
2	8505.000	44.07	8.93	53.00	82.25	-29.25	peak
3	10005.000	43.13	11.88	55.01	82.25	-27.24	peak
4	12255.000	36.72	17.00	53.72	82.25	-28.53	peak
5	14115.000	34.52	21.03	55.55	82.25	-26.70	peak
6	17775.000	31.14	25.79	56.93	82.25	-25.32	peak

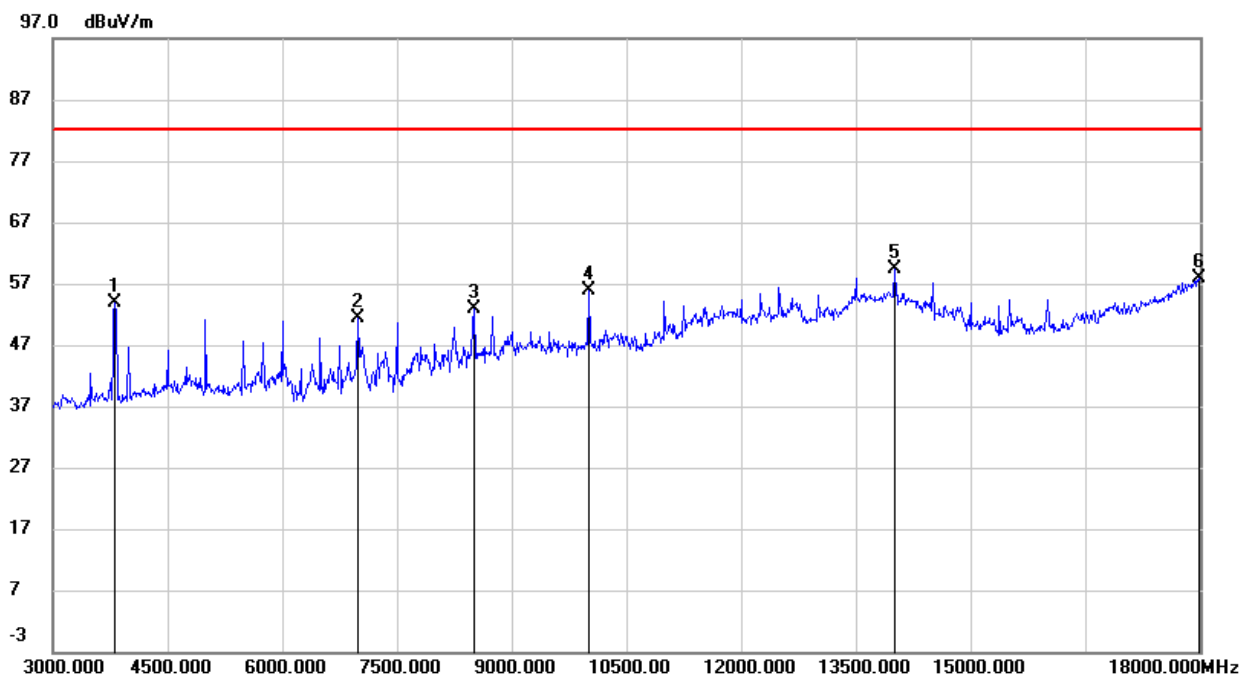
QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3765.000	52.90	-2.91	49.99	82.25	-32.26	peak
2	8745.000	44.04	8.61	52.65	82.25	-29.60	peak
3	10005.000	43.19	12.57	55.76	82.25	-26.49	peak
4	12495.000	38.34	18.16	56.50	82.25	-25.75	peak
5	14010.000	35.19	22.63	57.82	82.25	-24.43	peak
6	17940.000	30.55	28.01	58.56	82.25	-23.69	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	52.79	2.23	55.02	82.25	-27.23	peak
2	7500.000	44.16	7.88	52.04	82.25	-30.21	peak
3	10005.000	44.82	11.88	56.70	82.25	-25.55	peak
4	12645.000	35.49	17.09	52.58	82.25	-29.67	peak
5	14445.000	33.75	20.34	54.09	82.25	-28.16	peak
6	17715.000	30.94	25.41	56.35	82.25	-25.90	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	3810.000	56.71	-2.85	53.86	82.25	-28.39	peak
2	6990.000	43.98	7.47	51.45	82.25	-30.80	peak
3	8505.000	44.47	8.34	52.81	82.25	-29.44	peak
4	10005.000	43.36	12.57	55.93	82.25	-26.32	peak
5	14010.000	36.81	22.63	59.44	82.25	-22.81	peak
6	17985.000	29.56	28.25	57.81	82.25	-24.44	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	6000.000	51.02	4.21	55.23	82.25	-27.02	peak
2	8505.000	42.90	8.93	51.83	82.25	-30.42	peak
3	10005.000	45.82	11.88	57.70	82.25	-24.55	peak
4	12705.000	35.60	17.27	52.87	82.25	-29.38	peak
5	13875.000	33.32	20.91	54.23	82.25	-28.02	peak
6	17925.000	30.37	26.06	56.43	82.25	-25.82	peak

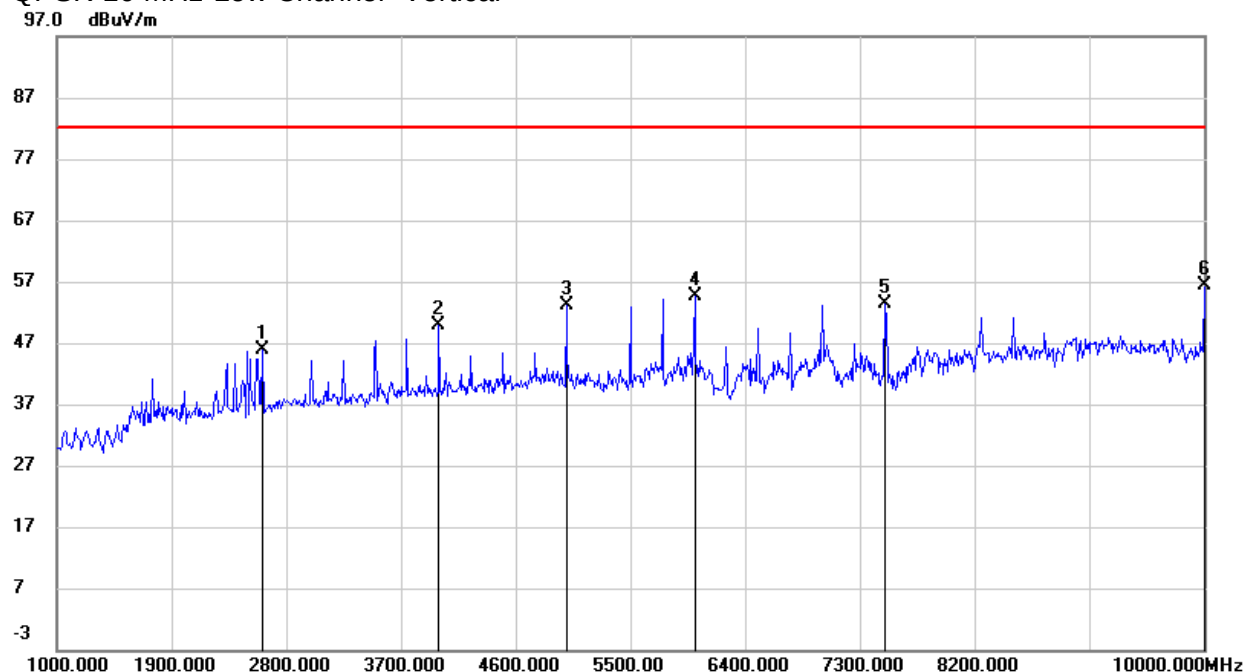
Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.1.6. LTE Band 26 (814 ~ 824 MHz)

QPSK-10 MHz-Low Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	51.51	-8.07	43.44	82.25	-38.81	peak
2	4996.000	50.65	0.62	51.27	82.25	-30.98	peak
3	6004.000	47.42	2.92	50.34	82.25	-31.91	peak
4	7498.000	44.33	6.97	51.30	82.25	-30.95	peak
5	8506.000	44.27	7.89	52.16	82.25	-30.09	peak
6	10000.000	43.28	12.11	55.39	82.25	-26.86	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	2611.000	52.86	-7.08	45.78	82.25	-36.47	peak
2	3997.000	52.30	-2.35	49.95	82.25	-32.30	peak
3	4996.000	51.32	1.82	53.14	82.25	-29.11	peak
4	6004.000	50.77	3.92	54.69	82.25	-27.56	peak
5	7498.000	45.89	7.47	53.36	82.25	-28.89	peak
6	10000.000	44.89	11.41	56.30	82.25	-25.95	peak

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

8.1.7. LTE Band 26 (824 ~ 849 MHz)

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	53.65	-8.07	45.58	82.25	-36.67	peak
2	4996.000	49.90	0.62	50.52	82.25	-31.73	peak
3	6004.000	48.44	2.92	51.36	82.25	-30.89	peak
4	7003.000	43.35	6.89	50.24	82.25	-32.01	peak
5	8506.000	43.73	7.89	51.62	82.25	-30.63	peak
6	10000.000	43.71	12.11	55.82	82.25	-26.43	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	53.97	-7.27	46.70	82.25	-35.55	peak
2	3997.000	53.26	-2.35	50.91	82.25	-31.34	peak
3	4996.000	52.35	1.82	54.17	82.25	-28.08	peak
4	5752.000	51.77	3.04	54.81	82.25	-27.44	peak
5	7498.000	45.81	7.47	53.28	82.25	-28.97	peak
6	10000.000	43.32	11.41	54.73	82.25	-27.52	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	2539.000	54.81	-8.07	46.74	82.25	-35.51	peak
2	4996.000	52.13	0.62	52.75	82.25	-29.50	peak
3	6004.000	47.63	2.92	50.55	82.25	-31.70	peak
4	7498.000	43.45	6.97	50.42	82.25	-31.83	peak
5	8506.000	43.94	7.89	51.83	82.25	-30.42	peak
6	10000.000	43.80	12.11	55.91	82.25	-26.34	peak

QPSK-15 MHz-Mid Channel- Vertical

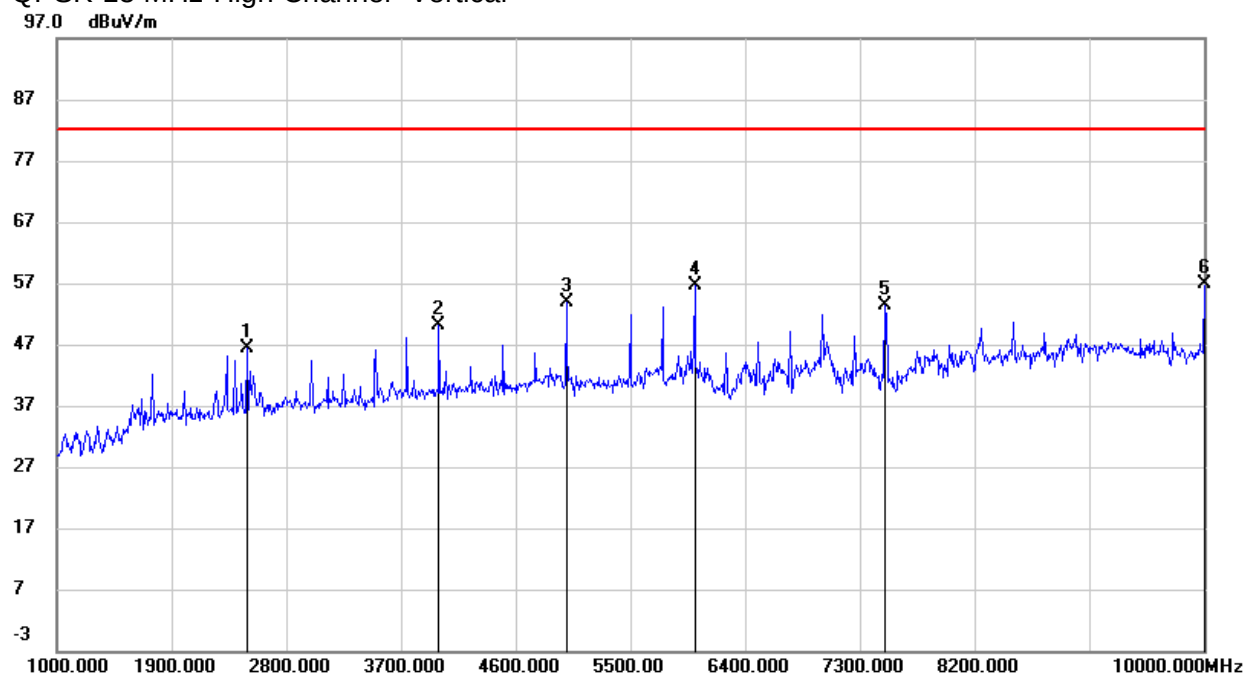
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3997.000	52.12	-2.35	49.77	82.25	-32.48	peak
2	4996.000	52.47	1.82	54.29	82.25	-27.96	peak
3	6004.000	51.17	3.92	55.09	82.25	-27.16	peak
4	7498.000	46.00	7.47	53.47	82.25	-28.78	peak
5	8506.000	43.26	8.48	51.74	82.25	-30.51	peak
6	10000.000	43.37	11.41	54.78	82.25	-27.47	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	2494.000	53.44	-8.07	45.37	82.25	-36.88	peak
2	4996.000	50.65	0.62	51.27	82.25	-30.98	peak
3	6004.000	47.64	2.92	50.56	82.25	-31.69	peak
4	7003.000	44.15	6.89	51.04	82.25	-31.21	peak
5	8506.000	43.14	7.89	51.03	82.25	-31.22	peak

6	10000.000	43.24	12.11	55.35	82.25	-26.90	peak
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QPSK-15 MHz-High Channel- Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	53.59	-7.27	46.32	82.25	-35.93	peak
2	3997.000	52.48	-2.35	50.13	82.25	-32.12	peak
3	4996.000	52.10	1.82	53.92	82.25	-28.33	peak
4	6004.000	52.66	3.92	56.58	82.25	-25.67	peak
5	7498.000	45.95	7.47	53.42	82.25	-28.83	peak
6	10000.000	45.40	11.41	56.81	82.25	-25.44	peak

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

8.1.8. 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	6000.000	46.69	3.21	49.90	70.25	-20.35	peak
2	8505.000	45.78	8.34	54.12	70.25	-16.13	peak
3	10005.000	43.40	12.57	55.97	70.25	-14.28	peak
4	12255.000	38.41	18.00	56.41	70.25	-13.84	peak
5	14010.000	35.92	22.63	58.55	70.25	-11.70	peak
6	17805.000	31.15	27.30	58.45	70.25	-11.80	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	6000.000	51.76	4.21	55.97	70.25	-14.28	peak
2	7500.000	44.77	7.88	52.65	70.25	-17.60	peak
3	10005.000	45.15	11.88	57.03	70.25	-13.22	peak
4	11745.000	37.09	15.71	52.80	70.25	-17.45	peak
5	15510.000	34.78	19.81	54.59	70.25	-15.66	peak
6	17925.000	30.35	26.06	56.41	70.25	-13.84	peak

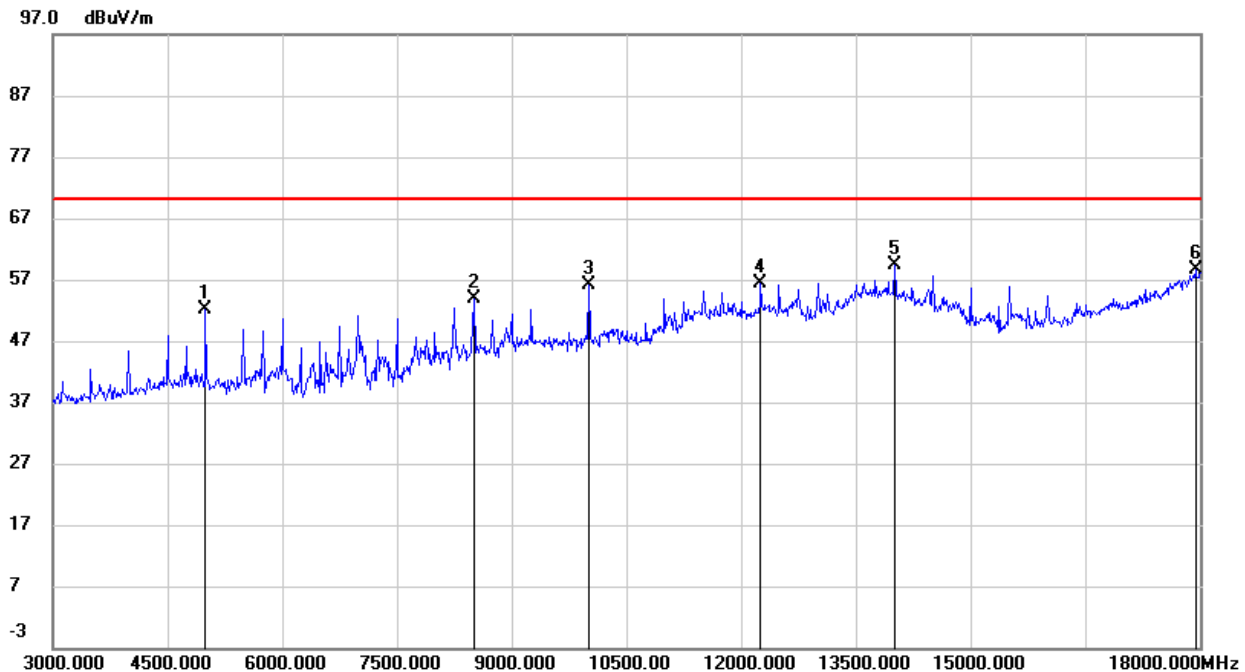
QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	51.00	1.03	52.03	70.25	-18.22	peak
2	8505.000	44.57	8.34	52.91	70.25	-17.34	peak
3	10005.000	43.62	12.57	56.19	70.25	-14.06	peak
4	12495.000	37.74	18.16	55.90	70.25	-14.35	peak
5	14010.000	35.29	22.63	57.92	70.25	-12.33	peak
6	17970.000	29.85	28.17	58.02	70.25	-12.23	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	49.93	4.21	54.14	70.25	-16.11	peak
2	7500.000	46.78	7.88	54.66	70.25	-15.59	peak
3	10005.000	46.10	11.88	57.98	70.25	-12.27	peak
4	12495.000	37.22	17.26	54.48	70.25	-15.77	peak
5	14010.000	35.09	21.05	56.14	70.25	-14.11	peak
6	17385.000	32.91	24.38	57.29	70.25	-12.96	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	51.08	1.03	52.11	70.25	-18.14	peak
2	8505.000	45.64	8.34	53.98	70.25	-16.27	peak
3	10005.000	43.55	12.57	56.12	70.25	-14.13	peak
4	12255.000	38.44	18.00	56.44	70.25	-13.81	peak
5	14010.000	36.67	22.63	59.30	70.25	-10.95	peak
6	17940.000	30.62	28.01	58.63	70.25	-11.62	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	6000.000	49.81	4.21	54.02	70.25	-16.23	peak
2	7500.000	44.90	7.88	52.78	70.25	-17.47	peak
3	10005.000	43.72	11.88	55.60	70.25	-14.65	peak
4	12495.000	35.53	17.26	52.79	70.25	-17.46	peak
5	14010.000	35.17	21.05	56.22	70.25	-14.03	peak
6	17880.000	30.43	26.03	56.46	70.25	-13.79	peak

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

8.1.9. LTE Band 66

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	48.13	3.21	51.34	82.25	-30.91	peak
2	8505.000	45.00	8.34	53.34	82.25	-28.91	peak
3	10005.000	43.70	12.57	56.27	82.25	-25.98	peak
4	12495.000	38.06	18.16	56.22	82.25	-26.03	peak
5	14010.000	35.99	22.63	58.62	82.25	-23.63	peak
6	18000.000	30.59	28.33	58.92	82.25	-23.33	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	6000.000	50.44	4.21	54.65	82.25	-27.60	peak
2	7500.000	44.69	7.88	52.57	82.25	-29.68	peak
3	10005.000	44.18	11.88	56.06	82.25	-26.19	peak
4	12330.000	35.48	17.33	52.81	82.25	-29.44	peak
5	13920.000	33.15	20.96	54.11	82.25	-28.14	peak
6	17715.000	31.16	25.41	56.57	82.25	-25.68	peak

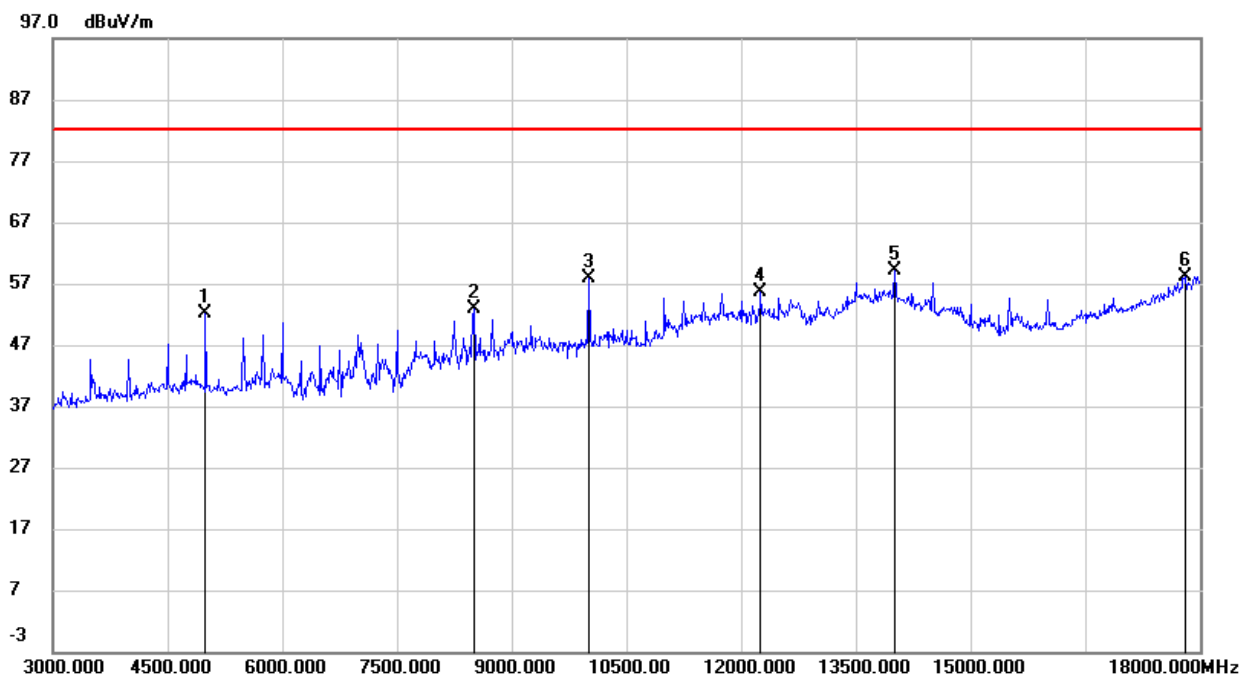
QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4995.000	49.66	1.03	50.69	82.25	-31.56	peak
2	7500.000	42.68	7.38	50.06	82.25	-32.19	peak
3	8745.000	43.30	8.61	51.91	82.25	-30.34	peak
4	10005.000	43.15	12.57	55.72	82.25	-26.53	peak
5	13500.000	37.69	21.39	59.08	82.25	-23.17	peak
6	17955.000	29.75	28.09	57.84	82.25	-24.41	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	51.25	2.23	53.48	82.25	-28.77	peak
2	7500.000	45.21	7.88	53.09	82.25	-29.16	peak
3	10005.000	43.92	11.88	55.80	82.25	-26.45	peak
4	14505.000	35.12	20.27	55.39	82.25	-26.86	peak
5	15510.000	35.85	19.81	55.66	82.25	-26.59	peak
6	17715.000	30.54	25.41	55.95	82.25	-26.30	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	51.16	1.03	52.19	82.25	-30.06	peak
2	8505.000	44.60	8.34	52.94	82.25	-29.31	peak
3	10005.000	45.42	12.57	57.99	82.25	-24.26	peak
4	12255.000	37.63	18.00	55.63	82.25	-26.62	peak
5	14010.000	36.53	22.63	59.16	82.25	-23.09	peak
6	17805.000	30.79	27.30	58.09	82.25	-24.16	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	51.16	2.23	53.39	82.25	-28.86	peak
2	6000.000	49.42	4.21	53.63	82.25	-28.62	peak
3	7500.000	46.08	7.88	53.96	82.25	-28.29	peak
4	10005.000	44.87	11.88	56.75	82.25	-25.50	peak
5	14505.000	34.33	20.27	54.60	82.25	-27.65	peak
6	17940.000	30.22	26.08	56.30	82.25	-25.95	peak

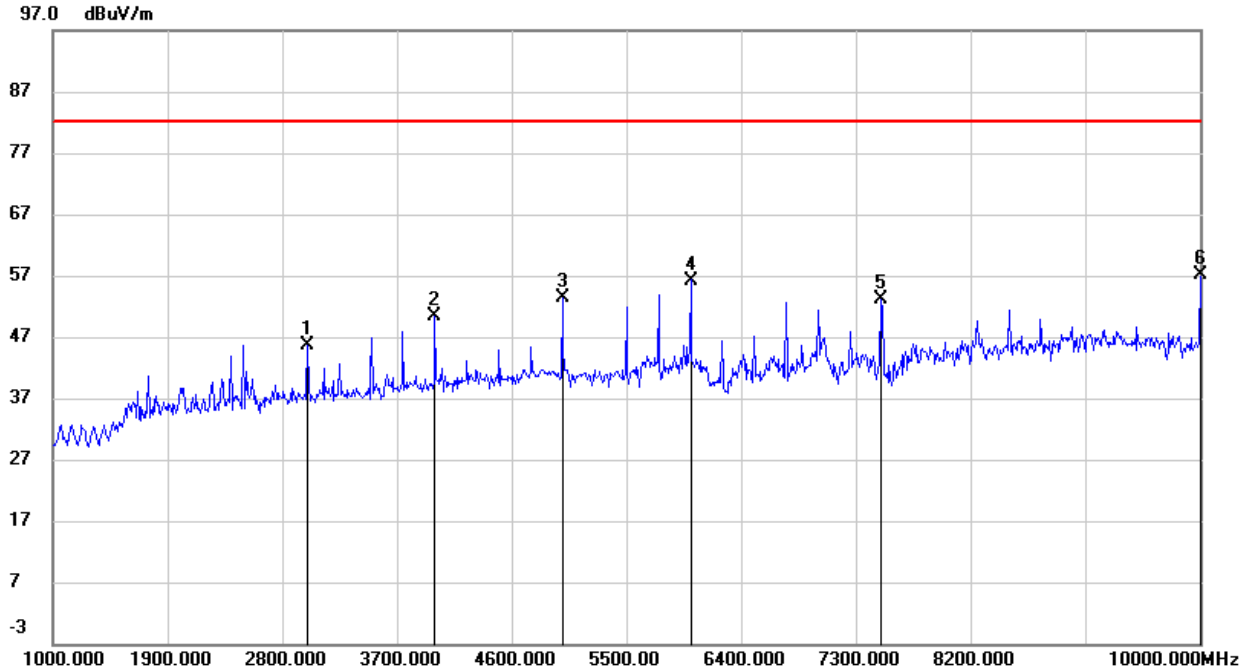
Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.1.10. LTE Band 71

QPSK-20 MHz-Low Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	51.96	-8.07	43.89	82.25	-38.36	peak
2	4996.000	50.87	0.62	51.49	82.25	-30.76	peak
3	6004.000	48.70	2.92	51.62	82.25	-30.63	peak
4	7498.000	43.61	6.97	50.58	82.25	-31.67	peak
5	8506.000	44.72	7.89	52.61	82.25	-29.64	peak
6	10000.000	42.81	12.11	54.92	82.25	-27.33	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	2998.000	50.56	-4.86	45.70	82.25	-36.55	peak
2	3997.000	52.71	-2.35	50.36	82.25	-31.89	peak
3	4996.000	51.62	1.82	53.44	82.25	-28.81	peak
4	6004.000	52.33	3.92	56.25	82.25	-26.00	peak
5	7498.000	45.55	7.47	53.02	82.25	-29.23	peak
6	10000.000	45.77	11.41	57.18	82.25	-25.07	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	2494.000	52.04	-8.07	43.97	82.25	-38.28	peak
2	4996.000	49.96	0.62	50.58	82.25	-31.67	peak
3	6004.000	47.93	2.92	50.85	82.25	-31.40	peak
4	7003.000	43.69	6.89	50.58	82.25	-31.67	peak
5	8749.000	43.95	8.12	52.07	82.25	-30.18	peak
6	10000.000	43.47	12.11	55.58	82.25	-26.67	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	2494.000	52.37	-7.27	45.10	82.25	-37.15	peak
2	3997.000	53.21	-2.35	50.86	82.25	-31.39	peak
3	4996.000	51.55	1.82	53.37	82.25	-28.88	peak
4	6004.000	50.53	3.92	54.45	82.25	-27.80	peak
5	7003.000	46.14	7.79	53.93	82.25	-28.32	peak
6	10000.000	44.87	11.41	56.28	82.25	-25.97	peak

QPSK-20 MHz-High Channel- Horizontal

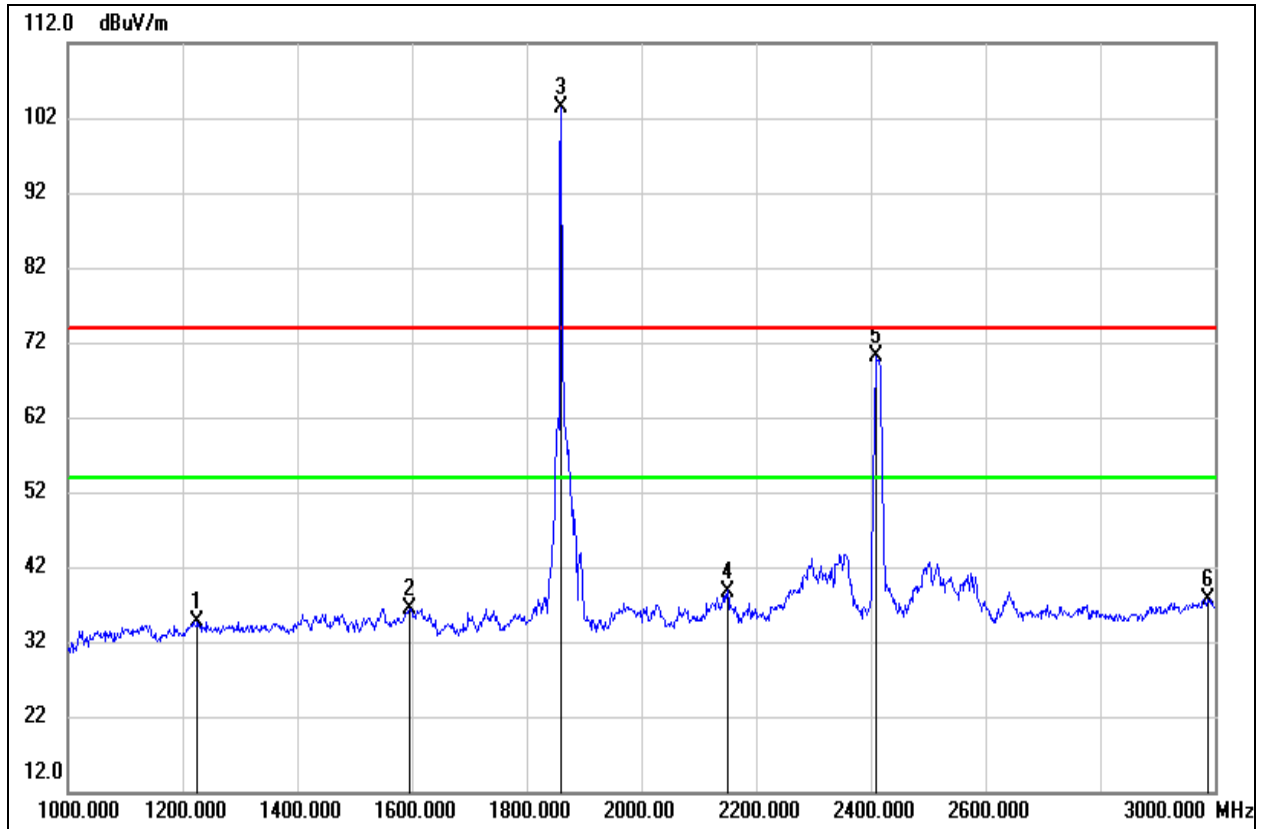
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1	2332.000	54.88	-8.41	46.47	82.25	-35.78	peak
2	4996.000	50.31	0.62	50.93	82.25	-31.32	peak
3	6004.000	46.32	2.92	49.24	82.25	-33.01	peak
4	7498.000	42.86	6.97	49.83	82.25	-32.42	peak
5	8506.000	44.85	7.89	52.74	82.25	-29.51	peak
6	10000.000	44.22	12.11	56.33	82.25	-25.92	peak

QPSK-20 MHz-High Channel- Vertical

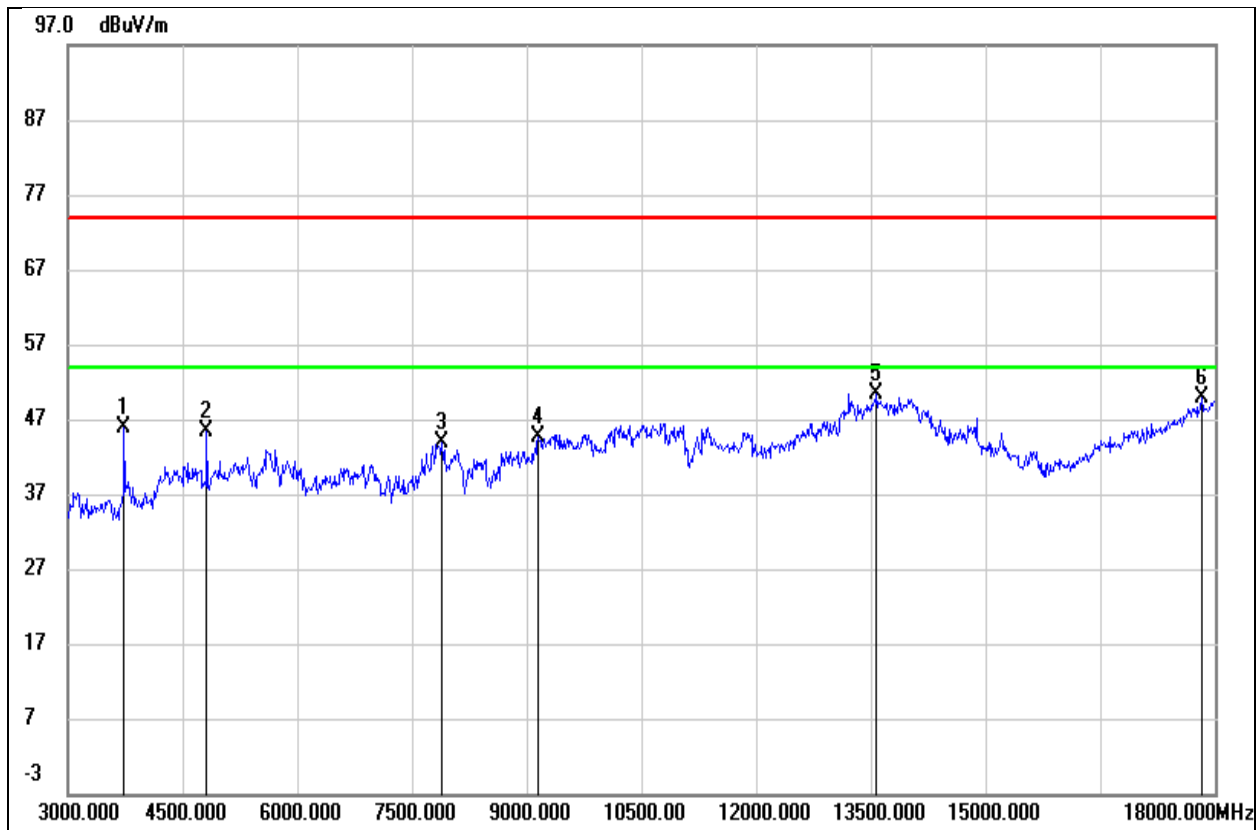
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2494.000	54.28	-7.27	47.01	82.25	-35.24	peak
2	3997.000	52.93	-2.35	50.58	82.25	-31.67	peak
3	4996.000	52.97	1.82	54.79	82.25	-27.46	peak
4	6004.000	51.07	3.92	54.99	82.25	-27.26	peak
5	7003.000	44.35	7.79	52.14	82.25	-30.11	peak
6	10000.000	45.54	11.41	56.95	82.25	-25.30	peak

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

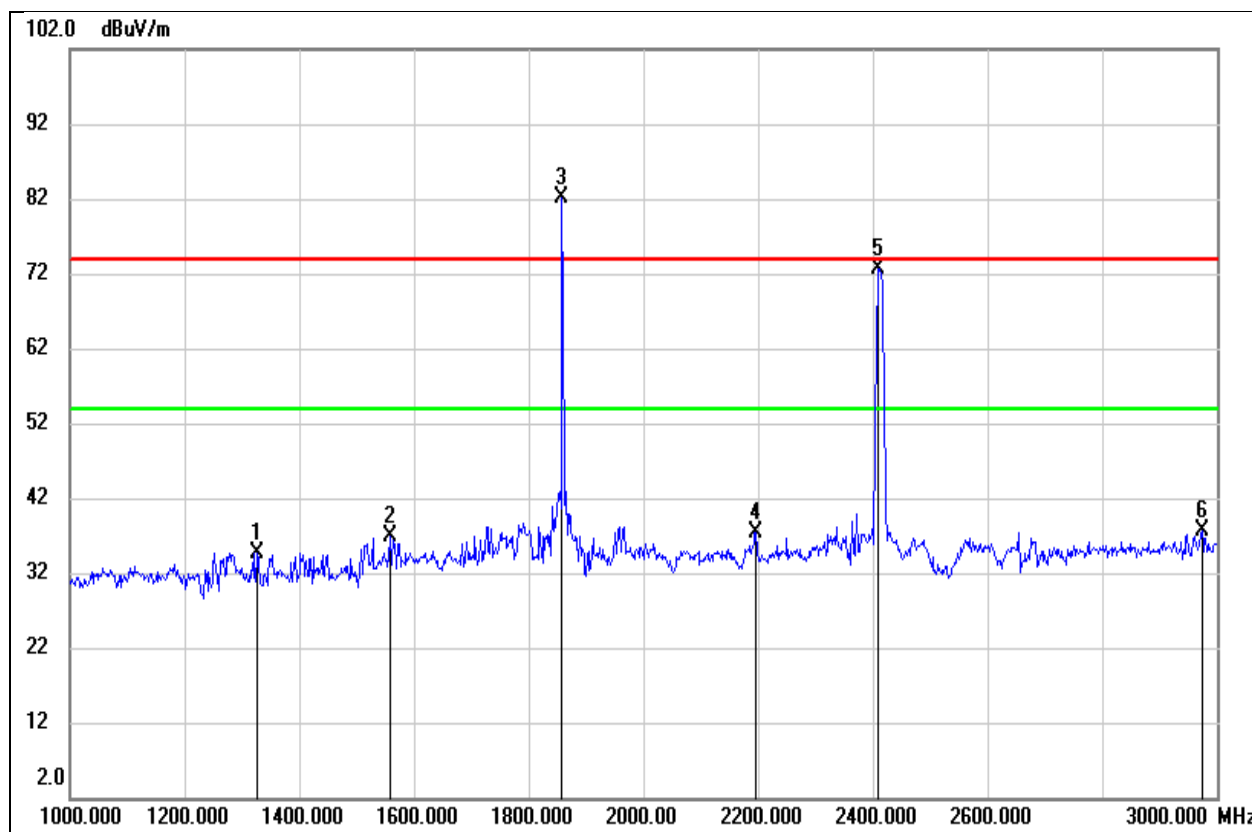
8.1.1. LTE B2 & WiFi 2.4GHz simultaneous transmission



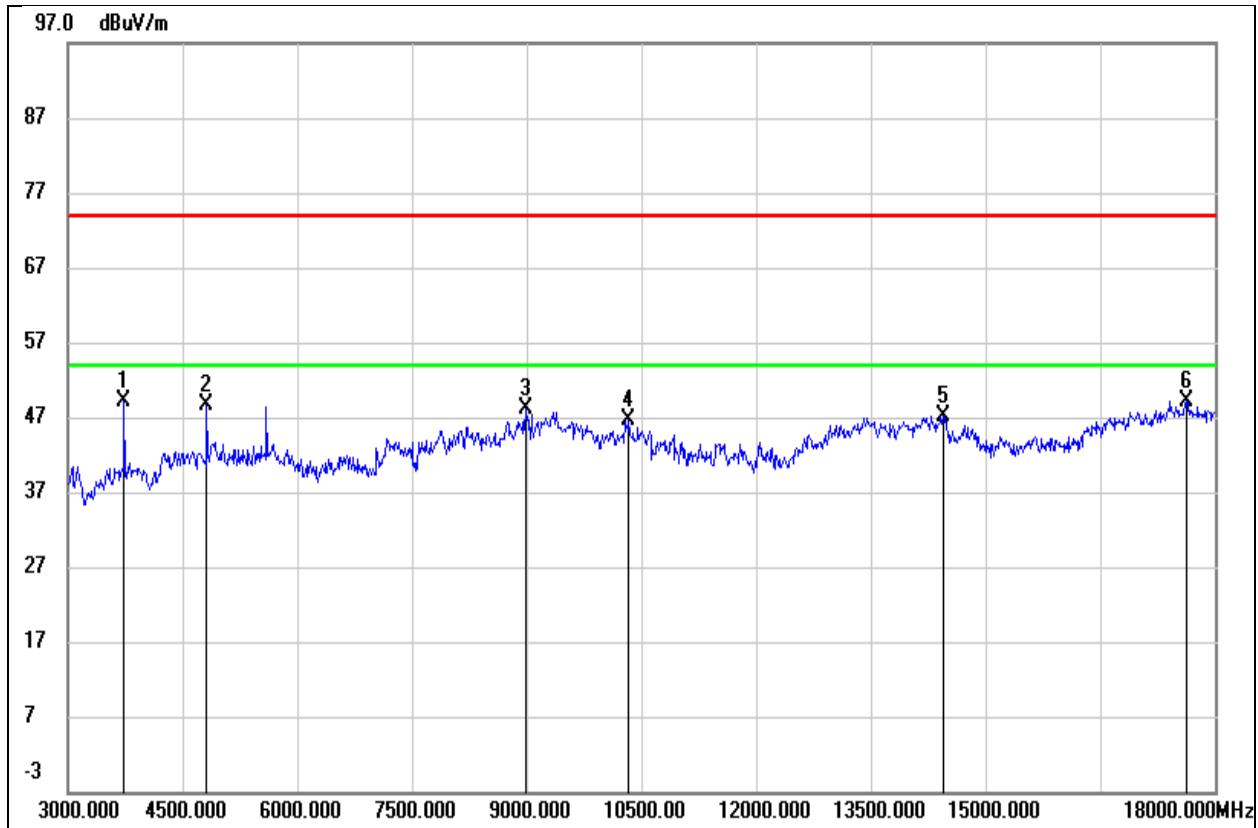
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1226.000	47.00	-12.30	34.70	74.00	-39.30	peak
2	1596.000	47.44	-11.01	36.43	74.00	-37.57	peak
3	1860.000	113.44	-10.08	103.36	\	\	fundamental
4	2150.000	47.92	-9.17	38.75	74.00	-35.25	peak
5	2410.000	77.76	-7.55	70.21	\	\	fundamental
6	2988.000	43.43	-5.75	37.68	74.00	-36.32	peak



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3735.000	48.86	-2.96	45.90	74.00	-28.10	peak
2	4815.000	44.74	0.65	45.39	74.00	-28.61	peak
3	7890.000	36.57	7.42	43.99	74.00	-30.01	peak
4	9150.000	34.17	10.40	44.57	74.00	-29.43	peak
5	13575.000	29.08	21.40	50.48	74.00	-23.52	peak
6	17820.000	22.48	27.37	49.85	74.00	-24.15	peak



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1326.000	46.63	-11.91	34.72	74.00	-39.28	peak
2	1558.000	47.97	-11.03	36.94	74.00	-37.06	peak
3	1858.000	91.60	-9.40	82.20	\	\	fundamental
4	2196.000	45.47	-8.06	37.41	74.00	-36.59	peak
5	2410.000	79.36	-6.73	72.63	\	\	fundamental
6	2974.000	42.17	-4.55	37.62	74.00	-36.38	peak



END OF REPORT