

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

FCC ID: 2ADINS6008L
Model Name: S6008L, N12, NUU N12

Report Number: 4791358150-1-RF-3
Issue Date: August 22, 2024

Prepared for

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Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	Aug 22, 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.

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	5
2. TEST METHODOLOGY	6
3. FACILITIES AND ACCREDITATION	6
4. CALIBRATION AND UNCERTAINTY	7
4.1. MEASURING INSTRUMENT CALIBRATION	7
4.2. MEASUREMENT UNCERTAINTY	7
5. EQUIPMENT UNDER TEST	8
5.1. DESCRIPTION OF EUT	8
5.2. TEST CHANNEL CONFIGURATION	8
5.3. MAXIMUM AVERAGE OUTPUT POWER	13
5.4. WORST-CASE CONFIGURATION AND MODE	19
5.5. DESCRIPTION OF AVAILABLE ANTENNAS	20
5.6. DESCRIPTION OF TEST SETUP	21
6. MEASURING INSTRUMENT AND SOFTWARE USED	22
7. ANTENNA TERMINAL TEST RESULTS	23
7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER	23
7.1.1. LTE Band 2	24
7.1.2. LTE Band 4	27
7.1.3. LTE Band 5	30
7.1.4. LTE Band 7	32
7.1.5. LTE Band 12	34
7.1.6. LTE Band 25	36
7.1.7. LTE Band 26(814-824MHz)	39
7.1.8. LTE Band 26(824-849MHz)	41
7.1.1. LTE Band 41	43
7.1.2. LTE Band 66	45
7.1.3. LTE Band 71	48
7.2. PEAK TO AVERAGE RADIO	50
7.3. OCCUPIED BANDWIDTH	51
7.4. BAND EDGE EMISSIONS	52
7.5. SPURIOUS EMISSION AT ANTENNA TERMINAL	57
7.6. FREQUENCY STABILITY	59
8. RADIATED SPURIOUS EMISSIONS	60
8.1.1. LTE Band 2	63
8.1.2. LTE Band 4	65

8.1.3.	LTE Band 5.....	67
8.1.4.	LTE Band 7.....	69
8.1.5.	LTE Band 12.....	71
8.1.6.	LTE Band 25.....	73
8.1.7.	LTE Band 26 (814 ~ 824 MHz)	75
8.1.8.	LTE Band 26 (824 ~ 849 MHz)	76
8.1.9.	LTE Band 41.....	78
8.1.10.	LTE Band 66	80
8.1.11.	LTE Band 71	82
8.1.1.	LTE Band 2 & 2.4GHz WiFi Simultaneous transmission	84

1. ATTESTATION OF TEST RESULTS

Applicant Information

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

Manufacturer Information

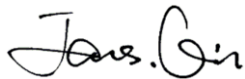
Company Name: Sun Cupid Technology (HK) Ltd.
Address: 16/F, CEO Tower, 77 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

EUT Information

EUT Name: LTE Smart Phone
Model: S6008L
Brand: NUU
Sample Received Date: July 5, 2024
Sample Status: Normal
Sample ID: 7377676
Date of Tested: July 05, 2024 ~ August 22, 2024

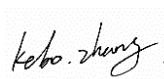
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 22 H	PASS
CFR 47 FCC PART 24 E	PASS
CFR 47 FCC PART 27	PASS
CFR 47 FCC PART 90S	PASS

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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 v02r02, 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:	S6008L
Series Model:	N12, NUU N12
Model Difference:	N12, NUU N12 have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction with S6008L. 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 7	Low Range	5	20775	2502.5	2775	2622.5
		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	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	39065	2537.5
		10	39090	2540
		15	39115	2542.5
		20	39140	2545
	Mid Range	5/10/15/20	40640	2695
	High Range	5	40215	2652.5
		10	40190	2650
		15	40165	2647.5
		20	40140	2645

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)		1.06					
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	20.34	0.138	1.092	1M09G7W
	16QAM			19.99	0.127	1.099	1M10D7W
3	QPSK	1851.5	1908.5	20.26	0.136	2.705	2M71G7W
	16QAM			19.98	0.127	2.704	2M70D7W
5	QPSK	1852.5	1907.5	20.28	0.136	4.508	4M51G7W
	16QAM			19.98	0.127	4.497	4M50D7W
10	QPSK	1855.0	1905.0	20.31	0.137	9.004	9M00G7W
	16QAM			19.91	0.125	8.994	9M00D7W
15	QPSK	1857.5	1902.5	20.30	0.137	13.496	13M5G7W
	16QAM			19.88	0.124	13.486	13M5D7W
20	QPSK	1860.0	1900.0	20.19	0.133	18.091	18M1G7W
	16QAM			19.91	0.125	18.001	18M0D7W

LTE Band 4							
Part 27 / RSS-139							
EIRP Limit(W)		1.0					
Antenna Gain (dBi)		1.02					
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	22.79	0.240	1.095	1M10G7W
	16QAM			22.44	0.222	1.093	1M09D7W
3	QPSK	1711.5	1753.5	22.85	0.244	2.705	2M71G7W
	16QAM			22.35	0.217	2.706	2M71D7W
5	QPSK	1712.5	1752.5	22.84	0.243	4.512	4M51G7W
	16QAM			22.31	0.215	4.504	4M50D7W
10	QPSK	1715.0	1750.0	22.83	0.243	9.029	9M03G7W
	16QAM			22.36	0.218	9.006	9M01D7W
15	QPSK	1717.5	1747.5	22.87	0.245	13.528	13M5G7W
	16QAM			22.29	0.214	13.494	13M5D7W
20	QPSK	1720.0	1745.0	22.72	0.237	18.110	18M1G7W
	16QAM			22.29	0.214	18.047	18M0D7W

LTE Band 5

Part 22H							
ERP Limit(W)		7.0					
Antenna Gain (dBi)		0.27					
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	22.81	0.124	1.090	1M09G7W
	16QAM			21.91	0.101	1.097	1M10D7W
3	QPSK	825.5	847.5	22.83	0.124	2.707	2M71G7W
	16QAM			22.30	0.110	2.702	2M70D7W
5	QPSK	826.5	846.5	22.76	0.122	4.510	4M51G7W
	16QAM			22.35	0.111	4.505	4M51D7W
10	QPSK	829	844	22.68	0.120	9.032	9M03G7W
	16QAM			22.26	0.109	9.010	9M01D7W

LTE Band 7

Part 27							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		0.48					
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	21.61	0.162	4.494	4M49G7W
	16QAM			21.50	0.158	4.491	4M49D7W
10	QPSK	2505	2565	21.66	0.164	8.996	9M00G7W
	16QAM			21.67	0.164	9.013	9M01D7W
15	QPSK	2507.5	2562.5	21.62	0.162	13.504	13M5G7W
	16QAM			21.66	0.164	13.477	13M5D7W
20	QPSK	2510	2560	21.58	0.161	18.066	18M1G7W
	16QAM			21.57	0.160	18.028	18M0D7W

LTE Band 12

Part 27							
ERP Limit(W)		3.0					
Antenna Gain (dBi)		-0.24					
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	23.19	0.120	1.090	1M09G7W
	16QAM			22.26	0.097	1.098	1M10D7W
3	QPSK	700.5	714.5	23.20	0.121	2.703	2M70G7W
	16QAM			22.79	0.110	2.700	2M70D7W
5	QPSK	701.5	713.5	23.25	0.122	4.503	4M50G7W
	16QAM			22.79	0.110	4.494	4M49D7W
10	QPSK	704.0	711.0	23.11	0.118	8.994	8M99G7W
	16QAM			22.76	0.109	9.002	9M00D7W

LTE Band 25

LTE Band 25							
Part 24 / RSS-133							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		1.06					
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	22.92	0.250	1.101	1M10G7W
	16QAM			22.40	0.222	1.091	1M09D7W
3	QPSK	1851.5	1913.5	23.00	0.255	2.701	2M70G7W
	16QAM			22.33	0.218	2.699	2M70D7W
5	QPSK	1852.5	1912.5	22.98	0.254	4.500	4M50G7W
	16QAM			22.19	0.211	4.495	4M50D7W
10	QPSK	1855.0	1910.0	23.00	0.255	8.986	8M99G7W
	16QAM			22.34	0.219	8.987	8M99D7W
15	QPSK	1857.5	1907.5	22.97	0.253	13.457	13M5G7W
	16QAM			22.32	0.218	13.432	13M4D7W
20	QPSK	1860.0	1905.0	22.92	0.250	18.015	18M0G7W
	16QAM			22.29	0.216	17.966	18M0D7W

LTE Band 26

LTE Band 26(814~824)							
Part 90S							
Conducted Limit(W)			100.0				
Antenna Gain (dBi)			0.27				
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	21.63	0.146	1.093	1M09G7W
	16QAM			21.00	0.126	1.100	1M10D7W
3	QPSK	815.5	822.5	21.60	0.145	2.701	2M70G7W
	16QAM			21.00	0.126	2.704	2M70D7W
5	QPSK	816.5	821.5	21.73	0.149	4.501	4M50G7W
	16QAM			21.15	0.130	4.495	4M50D7W
10	QPSK	819.0	819.0	21.50	0.141	8.988	8M99G7W
	16QAM			20.77	0.119	8.970	8M97D7W

LTE Band 26(824~849)							
Part 22 / RSS-132							
ERP Limit(W)			7.0				
Antenna Gain (dBi)			0.27				
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	21.78	0.098	1.092	1M09G7W
	16QAM			21.00	0.082	1.101	1M10D7W
3	QPSK	825.5	847.5	21.64	0.095	2.699	2M70G7W
	16QAM			21.09	0.083	2.701	2M70D7W
5	QPSK	826.5	846.5	21.74	0.097	4.506	4M51G7W
	16QAM			21.10	0.084	4.500	4M50D7W
10	QPSK	829.0	844.0	21.75	0.097	8.996	9M00G7W
	16QAM			21.12	0.084	8.994	8M99D7W
15	QPSK	831.5	841.5	21.63	0.094	13.487	13M5G7W
	16QAM			21.13	0.084	13.445	13M4D7W

LTE Band 41

Part 27							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		0.48					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	2537.5	2652.5	22.71	0.208	4.514	4M51G7W
	16QAM			21.00	0.141	4.515	4M52D7W
10	QPSK	2540	2650	22.80	0.213	8.990	8M99G7W
	16QAM			20.98	0.140	8.997	9M00D7W
15	QPSK	2542.5	2647.5	22.66	0.206	13.522	13M5G7W
	16QAM			20.82	0.135	13.486	13M5D7W
20	QPSK	2545	2645	22.71	0.208	18.036	18M0G7W
	16QAM			20.86	0.136	18.005	18M0D7W

LTE Band 66

Part 27							
EIRP Limit(W)		1.0					
Antenna Gain (dBi)		1.02					
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	22.66	0.233	1.094	1M09G7W
	16QAM			22.37	0.218	1.100	1M10D7W
3	QPSK	1711.5	1778.5	22.64	0.232	2.705	2M71G7W
	16QAM			22.35	0.217	2.701	2M70D7W
5	QPSK	1712.5	1777.5	22.61	0.231	4.510	4M51G7W
	16QAM			22.22	0.211	4.502	4M50D7W
10	QPSK	1715	1775	22.62	0.231	9.013	9M01G7W
	16QAM			22.44	0.222	8.998	9M00D7W
15	QPSK	1717.5	1772.5	22.57	0.229	13.506	13M5G7W
	16QAM			22.35	0.217	13.500	13M5D7W
20	QPSK	1720	1770	22.53	0.226	18.091	18M1G7W
	16QAM			22.36	0.218	18.052	18M1D7W

LTE Band 71

LTE Band 71							
Part 27 / RSS-130							
ERP Limit(W)		3.0					
Antenna Gain (dBi)		-0.37					
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	22.71	0.104	4.511	4M51G7W
	16QAM			22.13	0.091	4.499	4M50D7W
10	QPSK	668.0	693.0	22.79	0.106	9.026	9M03G7W
	16QAM			22.21	0.093	9.003	9M00D7W
15	QPSK	670.5	690.5	22.74	0.105	13.503	13M5G7W
	16QAM			22.29	0.095	13.485	13M5D7W
20	QPSK	673.0	688.0	22.73	0.105	18.144	18M1G7W
	16QAM			22.22	0.093	18.124	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

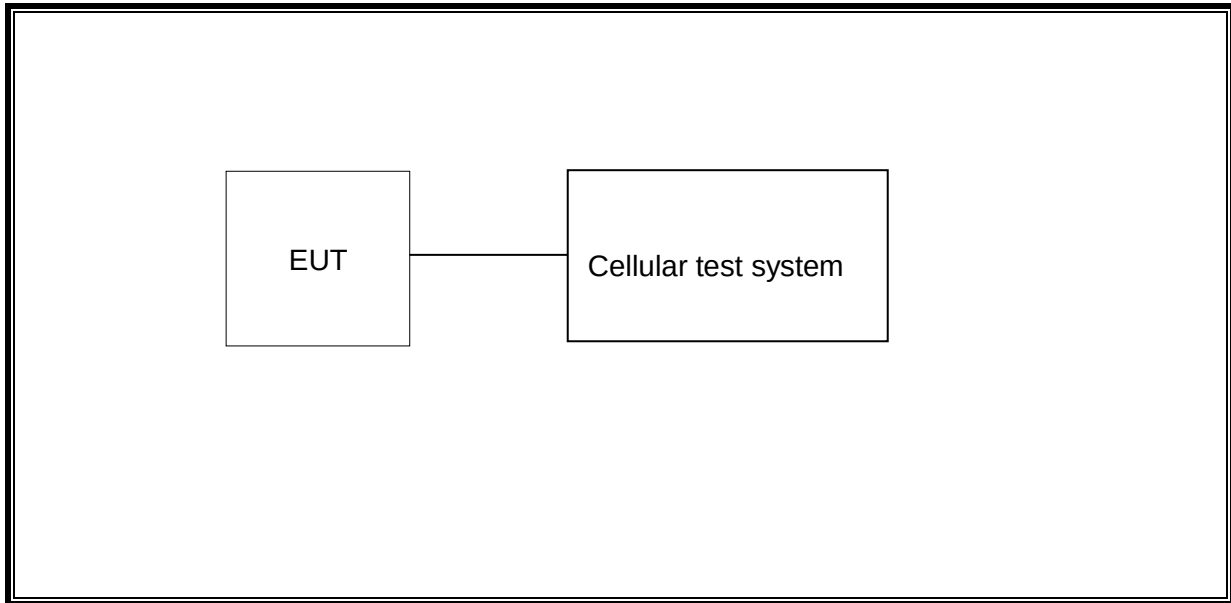
Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Ant0	LTE Band 2	FPC	1.06
Ant0	LTE Band 4	FPC	1.02
Ant0	LTE Band 5	FPC	0.27
Ant0	LTE Band 7	FPC	0.48
Ant0	LTE Band 12	FPC	-0.24
Ant0	LTE Band 25	FPC	1.06
Ant0	LTE Band 26	FPC	0.27
Ant0	LTE Band 41	FPC	0.48
Ant0	LTE Band 66	FPC	1.02
Ant0	LTE Band 71	FPC	-0.37

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 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

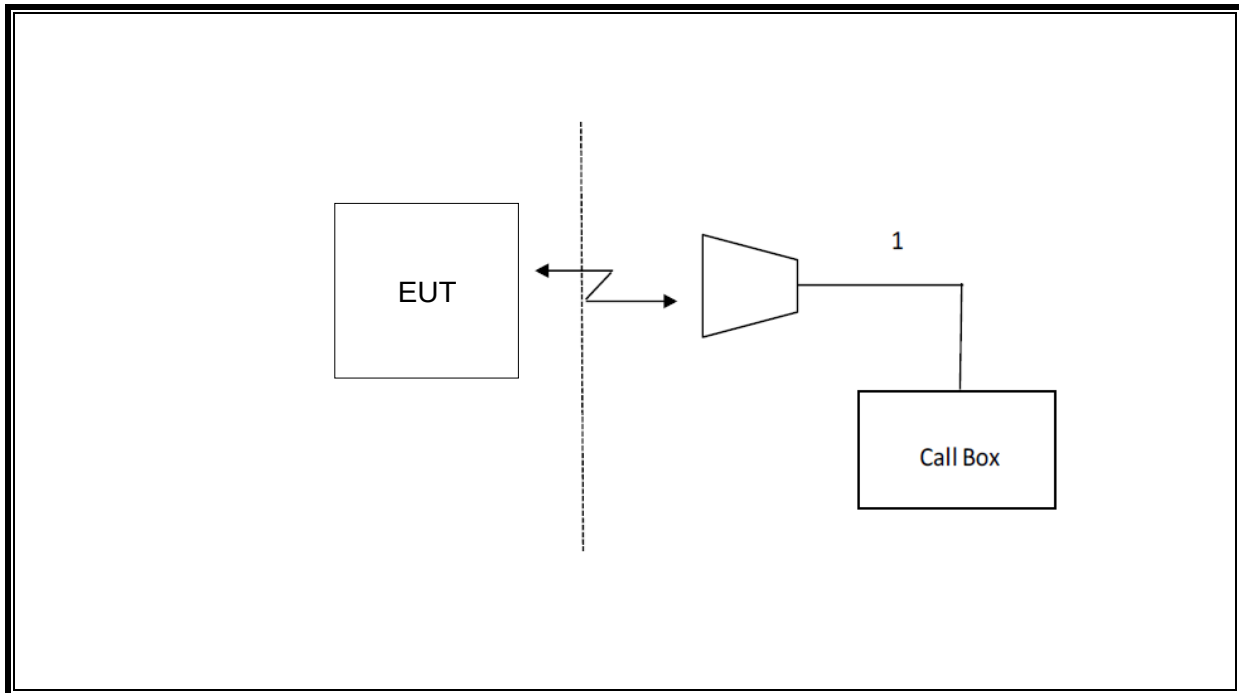
Note: The value of the antenna gain was declared by customer.

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

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);

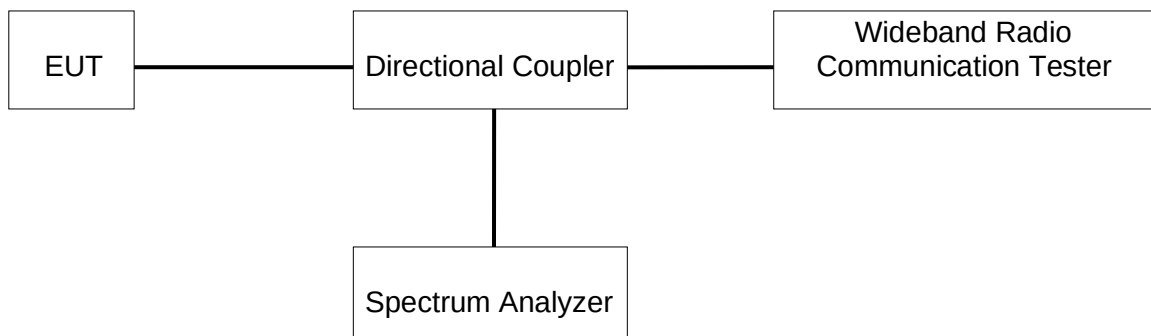
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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

TEST SETUP



TEST ENVIRONMENT

Temperature	23.1°C	Relative Humidity	64.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

RESULTS

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
1.4MHz	QPSK	1	0	20.06	20.28	19.99
		1	2	20.24	20.02	20.26
		1	5	20.30	19.99	20.27
		3	0	20.22	20.34	20.09
		3	1	20.20	19.90	20.18
		3	3	20.04	19.97	20.16
		6	0	19.02	18.91	19.50
	16QAM	1	0	19.13	18.97	19.41
		1	2	19.23	18.93	19.49
		1	5	19.05	19.07	19.24
		3	0	19.99	18.90	19.01
		3	1	19.85	18.63	19.70
		3	3	19.96	18.81	19.13
		6	0	18.53	18.22	18.62
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
3MHz	QPSK	1	0	20.26	20.14	20.04
		1	8	20.22	19.91	20.05
		1	14	20.19	19.95	20.08
		8	0	19.07	19.12	19.48
		8	4	19.07	19.07	19.34
		8	7	19.16	19.13	19.49
		15	0	18.86	19.16	19.25
	16QAM	1	0	19.84	19.00	19.04
		1	8	19.93	18.92	19.46
		1	14	19.98	18.96	18.94
		8	0	18.23	18.29	18.70
		8	4	18.05	18.27	18.62
		8	7	18.15	18.15	18.46
		15	0	18.74	18.06	18.41
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
5MHz	QPSK	1	0	20.02	20.28	20.11
		1	12	20.21	20.15	20.17
		1	24	20.20	20.16	20.02
		12	0	19.14	18.97	19.45
		12	6	19.04	19.02	19.31
		12	13	19.03	19.16	19.34
		25	0	19.14	19.17	19.32
	16QAM	1	0	19.93	19.03	19.11
		1	12	19.80	18.63	19.52
		1	24	19.98	18.96	18.95
		12	0	18.19	18.10	18.53
		12	6	18.10	18.12	18.67
		12	13	18.19	18.20	18.62
		25	0	18.67	18.10	18.37
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
10MHz	QPSK	1	0	20.31	20.07	20.10
		1	24	20.22	20.04	20.13
		1	49	20.31	20.07	19.99
		25	0	19.12	19.05	19.49
		25	12	19.24	19.02	19.29
		25	25	19.23	18.97	19.46
		50	0	18.88	19.13	19.40
	16QAM	1	0	19.90	18.99	19.07
		1	24	19.89	18.89	19.65
		1	49	19.91	18.82	19.00
		25	0	18.21	18.12	18.47
		25	12	17.94	18.09	18.64
		25	25	17.98	18.26	18.55
		50	0	18.70	18.08	18.48
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
15MHz	QPSK	1	0	20.30	20.17	20.18
		1	38	20.16	20.00	19.99
		1	74	20.18	19.95	20.23
		36	0	19.07	19.07	19.32
		36	18	19.30	19.16	19.45
		36	37	18.96	19.07	19.34
		75	0	18.96	19.12	19.26
	16QAM	1	0	19.88	18.90	18.97
		1	38	19.75	18.92	19.52
		1	74	19.75	18.73	19.13
		36	0	18.25	18.19	18.55
		36	18	17.98	18.37	18.50
		36	37	18.12	18.30	18.59
		75	0	18.72	18.21	18.51

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
20MHz	QPSK	1	0	20.16	20.19	20.08
		1	49	20.18	20.05	20.14
		1	99	20.17	20.01	20.13
		50	0	19.05	19.06	19.45
		50	25	19.15	19.02	19.44
		50	50	19.10	19.02	19.49
		100	0	19.01	19.04	19.36
	16QAM	1	0	19.91	18.92	19.03
		1	49	19.87	18.77	19.61
		1	99	19.87	18.84	19.06
		50	0	18.16	18.23	18.56
		50	25	18.09	18.23	18.55
		50	50	18.10	18.26	18.54
		100	0	18.60	18.10	18.50

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
1.4MHz	QPSK	1	0	22.36	22.23	22.62
		1	2	22.58	22.18	22.79
		1	5	22.60	22.33	22.59
		3	0	22.65	22.29	22.60
		3	1	22.46	22.37	22.72
		3	3	22.44	22.32	22.71
		6	0	21.48	21.38	21.59
	16QAM	1	0	21.32	21.61	21.63
		1	2	21.30	21.44	21.60
		1	5	21.22	21.56	21.52
		3	0	22.44	21.60	21.27
		3	1	22.11	21.85	21.37
		3	3	22.37	21.78	21.18
		6	0	20.43	20.43	20.44
Bandwidth (MHz)	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
3MHz	QPSK	1	0	22.61	22.36	22.81
		1	8	22.42	22.45	22.85
		1	14	22.59	22.22	22.73
		8	0	21.33	21.62	21.50
		8	4	21.49	21.42	21.46
		8	7	21.46	21.38	21.46
		15	0	21.37	21.49	21.28
	16QAM	1	0	22.18	21.73	21.22
		1	8	22.35	21.65	21.31
		1	14	22.27	21.71	21.15
		8	0	20.36	20.71	20.54
		8	4	20.47	20.56	20.49
		8	7	20.43	20.60	20.73
		15	0	20.48	20.65	20.46
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
5MHz	QPSK	1	0	22.53	22.42	22.84
		1	12	22.50	22.25	22.67
		1	24	22.53	22.51	22.58
		12	0	21.26	21.36	21.63
		12	6	21.48	21.47	21.49
		12	13	21.46	21.61	21.50
		25	0	21.46	21.42	21.32
	16QAM	1	0	22.31	21.82	21.22
		1	12	22.18	21.72	21.14

		1	24	22.19	21.69	21.21
		12	0	20.40	20.48	20.72
		12	6	20.50	20.53	20.63
		12	13	20.64	20.53	20.52
		25	0	20.44	20.56	20.70
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
10MHz	QPSK	1	0	22.51	22.23	22.65
		1	24	22.31	22.25	22.70
		1	49	22.66	22.22	22.83
		25	0	21.50	21.42	21.36
		25	12	21.36	21.37	21.47
		25	25	21.45	21.50	21.48
		50	0	21.34	21.53	21.41
	16QAM	1	0	22.25	21.66	21.12
		1	24	22.15	21.62	21.27
		1	49	22.36	21.67	21.38
		25	0	20.53	20.57	20.51
		25	12	20.48	20.44	20.43
		25	25	20.47	20.72	20.67
		50	0	20.44	20.52	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
15MHz	QPSK	1	0	22.59	22.28	22.76
		1	38	22.50	22.22	22.71
		1	74	22.46	22.25	22.87
		36	0	21.24	21.37	21.61
		36	18	21.48	21.45	21.64
		36	37	21.25	21.67	21.46
		75	0	21.37	21.56	21.28
	16QAM	1	0	22.17	21.84	21.26
		1	38	22.29	21.73	21.36
		1	74	22.27	21.62	21.17
		36	0	20.52	20.58	20.45
		36	18	20.50	20.44	20.69
		36	37	20.45	20.51	20.52
		75	0	20.65	20.52	20.60
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
20MHz	QPSK	1	0	22.50	22.29	22.69
		1	49	22.45	22.33	22.71
		1	99	22.51	22.36	22.72
		50	0	21.37	21.49	21.51
		50	25	21.38	21.51	21.53
		50	50	21.38	21.52	21.53

	16QAM	100	0	21.35	21.49	21.43
		1	0	22.29	21.73	21.13
		1	49	22.24	21.74	21.24
		1	99	22.22	21.69	21.24
		50	0	20.47	20.60	20.57
		50	25	20.48	20.59	20.58
		50	50	20.50	20.66	20.58
		100	0	20.57	20.52	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
1.4MHz	QPSK	1	0	22.71	22.48	22.56
		1	2	22.55	22.68	22.48
		1	5	22.32	22.49	22.74
		3	0	22.81	22.62	22.45
		3	1	22.53	22.47	22.50
		3	3	22.40	22.60	22.53
		6	0	21.82	21.50	21.78
	16QAM	1	0	21.75	21.45	21.55
		1	2	21.69	21.65	21.61
		1	5	21.71	21.64	21.58
		3	0	21.67	21.62	21.55
		3	1	21.91	21.64	21.55
		3	3	21.83	21.61	21.62
		6	0	20.67	21.15	20.85
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
3MHz	QPSK	1	0	22.83	22.48	22.60
		1	8	22.68	22.64	22.70
		1	14	22.43	22.45	22.60
		8	0	21.64	21.64	21.70
		8	4	21.89	21.44	21.74
		8	7	21.84	21.40	21.58
		15	0	21.61	21.57	21.74
	16QAM	1	0	21.13	22.30	21.92
		1	8	21.04	22.23	21.87
		1	14	21.13	22.24	21.87
		8	0	20.72	21.31	20.56
		8	4	20.65	21.12	20.70
		8	7	20.89	21.09	20.69
		15	0	21.16	21.04	20.60
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
5MHz	QPSK	1	0	22.60	22.52	22.74
		1	12	22.71	22.57	22.73
		1	24	22.52	22.50	22.76
		12	0	21.92	21.65	21.54
		12	6	21.63	21.58	21.61
		12	13	21.86	21.66	21.67
		25	0	21.66	21.61	21.64
	16QAM	1	0	21.25	22.23	21.94
		1	12	21.25	22.19	21.94

		1	24	21.08	22.35	22.05
		12	0	20.81	21.28	20.67
		12	6	20.87	21.16	20.64
		12	13	20.94	21.19	20.60
		25	0	21.15	21.19	20.46
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
10MHz	QPSK	1	0	22.68	22.53	22.60
		1	24	22.58	22.58	22.59
		1	49	22.43	22.55	22.66
		25	0	21.79	21.55	21.67
		25	12	21.78	21.53	21.68
		25	25	21.79	21.52	21.70
		50	0	21.71	21.60	21.70
	16QAM	1	0	21.19	22.20	21.94
		1	24	21.14	22.21	21.94
		1	49	21.00	22.26	21.91
		25	0	20.83	21.21	20.68
		25	12	20.77	21.20	20.71
		25	25	20.79	21.20	20.63
		50	0	21.07	21.11	20.57

7.1.4. 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
5MHz	QPSK	1	0	21.33	21.56	21.45
		1	12	21.27	21.47	21.33
		1	24	21.53	21.45	21.61
		12	0	20.47	20.41	20.43
		12	6	20.23	20.36	20.43
		12	13	20.37	20.45	20.35
		25	0	20.48	20.25	20.47
	16QAM	1	0	21.37	20.98	20.86
		1	12	21.50	20.89	20.79
		1	24	21.46	20.83	20.87
		12	0	19.38	19.46	19.51
		12	6	19.42	19.65	19.62
		12	13	19.39	19.55	19.75
		25	0	19.52	19.46	19.49
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
10MHz	QPSK	1	0	21.32	21.50	21.64
		1	24	21.39	21.50	21.44
		1	49	21.57	21.66	21.47
		25	0	20.48	20.28	20.27
		25	12	20.28	20.28	20.39
		25	25	20.50	20.47	20.38
		50	0	20.30	20.41	20.33
	16QAM	1	0	21.48	20.91	20.74
		1	24	21.45	21.00	20.73
		1	49	21.67	20.80	20.83
		25	0	19.52	19.53	19.49
		25	12	19.44	19.57	19.65
		25	25	19.54	19.74	19.60
		50	0	19.59	19.59	19.58
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
15MHz	QPSK	1	0	21.47	21.51	21.62
		1	38	21.53	21.36	21.39
		1	74	21.41	21.60	21.43
		36	0	20.44	20.34	20.43
		36	18	20.39	20.45	20.38
		36	37	20.41	20.46	20.32
		75	0	20.28	20.20	20.42
	16QAM	1	0	21.66	21.00	20.91
		1	38	21.42	20.78	20.78

		1	74	21.49	20.92	20.83
		36	0	19.44	19.72	19.52
		36	18	19.40	19.50	19.62
		36	37	19.46	19.68	19.75
		75	0	19.54	19.36	19.54
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
20MHz	QPSK	1	0	21.36	21.55	21.58
		1	49	21.39	21.50	21.46
		1	99	21.46	21.53	21.49
		50	0	20.47	20.33	20.40
		50	25	20.35	20.42	20.37
		50	50	20.36	20.42	20.38
		100	0	20.40	20.32	20.37
	16QAM	1	0	21.51	20.92	20.89
		1	49	21.57	20.85	20.81
		1	99	21.54	20.88	20.86
		50	0	19.40	19.61	19.63
		50	25	19.38	19.60	19.61
		50	50	19.40	19.60	19.61
		100	0	19.59	19.44	19.57

7.1.5. 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
1.4MHz	QPSK	1	0	22.62	22.46	23.10
		1	2	22.69	22.44	22.54
		1	5	22.79	22.60	23.17
		3	0	22.64	22.54	23.19
		3	1	22.78	22.63	22.72
		3	3	22.63	22.57	22.99
		6	0	22.20	22.18	22.21
	16QAM	1	0	22.11	22.18	22.10
		1	2	22.19	21.97	22.09
		1	5	22.01	22.25	22.03
		3	0	22.09	22.26	22.14
		3	1	22.15	22.05	22.16
		3	3	22.15	22.12	22.10
		6	0	21.07	21.00	21.25
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
3MHz	QPSK	1	0	22.66	22.63	23.11
		1	8	22.56	22.53	22.53
		1	14	22.64	22.43	23.20
		8	0	22.01	22.14	22.09
		8	4	22.18	22.10	22.13
		8	7	22.10	22.24	22.22
		15	0	21.58	22.18	21.38
	16QAM	1	0	21.32	22.79	21.90
		1	8	21.35	22.79	21.39
		1	14	21.28	22.15	21.48
		8	0	21.09	21.21	21.03
		8	4	21.31	21.25	21.27
		8	7	21.35	21.22	21.12
		15	0	21.12	21.14	20.71
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
5MHz	QPSK	1	0	22.55	22.46	22.98
		1	12	22.64	22.39	22.70
		1	24	22.68	22.45	23.25
		12	0	22.18	22.22	22.29
		12	6	22.14	22.20	22.30
		12	13	22.00	22.15	22.18
		25	0	21.58	21.99	21.49
	16QAM	1	0	21.26	22.63	22.13
		1	12	21.03	22.79	21.30

		1	24	21.42	22.13	21.62
		12	0	21.29	21.07	21.18
		12	6	21.14	21.04	21.02
		12	13	21.27	21.14	21.30
		25	0	21.22	21.11	20.67
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
10MHz	QPSK	1	0	22.65	22.51	23.05
		1	24	22.66	22.51	22.62
		1	49	22.66	22.54	23.11
		25	0	22.06	22.11	22.17
		25	12	22.08	22.12	22.19
		25	25	22.03	22.11	22.18
		50	0	21.62	22.12	21.53
	16QAM	1	0	21.12	22.76	21.98
		1	24	21.08	22.75	21.41
		1	49	21.38	22.25	21.53
		25	0	21.22	21.18	21.15
		25	12	21.22	21.18	21.16
		25	25	21.22	21.19	21.15
		50	0	21.19	21.17	20.65

7.1.6. 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
1.4MHz	QPSK	1	0	22.79	22.57	22.57
		1	2	22.68	22.70	22.79
		1	5	22.71	22.81	22.90
		3	0	22.66	22.49	22.70
		3	1	22.69	22.81	22.92
		3	3	22.78	22.92	22.74
		6	0	21.58	21.82	21.67
	16QAM	1	0	21.58	21.94	21.63
		1	2	21.79	21.75	21.63
		1	5	21.57	21.77	21.77
		3	0	22.40	21.48	21.48
		3	1	22.10	21.42	21.71
		3	3	22.30	21.53	21.45
		6	0	20.65	20.64	20.84
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
3MHz	QPSK	1	0	22.70	22.54	22.63
		1	8	22.55	22.58	23.00
		1	14	22.64	22.91	22.78
		8	0	21.57	21.75	21.82
		8	4	21.56	21.90	21.87
		8	7	21.57	21.80	21.87
		15	0	21.68	21.73	21.66
	16QAM	1	0	22.33	21.58	21.55
		1	8	22.06	21.66	21.94
		1	14	22.15	21.60	21.53
		8	0	20.82	20.95	20.88
		8	4	20.83	20.91	20.93
		8	7	20.70	20.69	21.00
		15	0	20.72	20.89	20.76
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
5MHz	QPSK	1	0	22.58	22.64	22.64
		1	12	22.54	22.64	22.98
		1	24	22.68	22.81	22.76
		12	0	21.56	21.76	21.78
		12	6	21.71	21.64	21.68
		12	13	21.59	21.67	21.70
		25	0	21.55	21.58	21.66
	16QAM	1	0	22.19	21.60	21.60
		1	12	22.05	21.53	21.89

		1	24	22.04	21.78	21.68
		12	0	20.76	20.95	21.00
		12	6	20.68	20.86	20.86
		12	13	20.56	20.92	20.87
		25	0	20.72	20.79	20.77
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
10MHz	QPSK	1	0	22.50	22.60	22.51
		1	24	22.68	22.61	22.82
		1	49	22.58	23.00	22.78
		25	0	21.67	21.61	21.82
		25	12	21.56	21.66	21.87
		25	25	21.50	21.77	21.80
		50	0	21.50	21.78	21.73
	16QAM	1	0	22.34	21.67	21.75
		1	24	22.10	21.42	21.72
		1	49	22.06	21.58	21.38
		25	0	20.82	20.85	21.00
		25	12	20.77	20.92	20.95
		25	25	20.56	20.87	20.94
		50	0	20.81	20.70	20.69
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
15MHz	QPSK	1	0	22.59	22.73	22.68
		1	38	22.51	22.82	22.81
		1	74	22.59	22.97	22.70
		36	0	21.67	21.75	21.66
		36	18	21.73	21.65	21.75
		36	37	21.68	21.64	21.71
		75	0	21.57	21.53	21.80
	16QAM	1	0	22.32	21.65	21.59
		1	38	22.09	21.65	21.91
		1	74	22.30	21.71	21.46
		36	0	20.57	20.82	20.86
		36	18	20.63	20.83	20.84
		36	37	20.64	20.72	20.79
		75	0	20.70	20.81	20.72
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
20MHz	QPSK	1	0	22.65	22.63	22.62
		1	49	22.65	22.67	22.91
		1	99	22.64	22.92	22.78
		50	0	21.63	21.74	21.74
		50	25	21.65	21.79	21.76
		50	50	21.65	21.78	21.77

	16QAM	100	0	21.55	21.63	21.66
		1	0	22.29	21.52	21.62
		1	49	22.13	21.51	21.79
		1	99	22.19	21.64	21.53
		50	0	20.67	20.83	20.87
		50	25	20.69	20.82	20.89
		50	50	20.69	20.84	20.89
		100	0	20.68	20.79	20.79

7.1.7. LTE Band 26(814-824MHz)

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
1.4MHz	QPSK	1	0	21.55	21.34	21.63
		1	2	21.55	21.51	21.60
		1	5	21.24	21.42	21.42
		3	0	21.27	20.47	20.62
		3	1	21.39	20.59	20.63
		3	3	21.44	20.45	20.51
		6	0	20.49	20.56	20.48
	16QAM	1	0	20.58	20.98	20.84
		1	2	20.47	21.00	21.00
		1	5	20.65	20.85	20.82
		3	0	20.52	19.58	19.54
		3	1	20.62	19.61	19.44
		3	3	20.65	19.64	19.59
		6	0	19.62	19.53	19.55
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
3MHz	QPSK	1	0	21.46	21.47	21.60
		1	8	21.33	21.56	21.58
		1	14	21.27	21.44	21.45
		8	0	20.36	20.56	20.58
		8	4	20.36	20.44	20.65
		8	7	20.56	20.48	20.52
		15	0	20.57	20.41	20.57
	16QAM	1	0	20.47	20.88	20.86
		1	8	20.65	21.00	21.00
		1	14	20.61	20.87	20.81
		8	0	19.49	19.53	19.54
		8	4	19.62	19.58	19.48
		8	7	19.49	19.50	19.45
		15	0	19.58	19.54	19.61
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	21.36	21.49	21.73
		1	12	21.41	21.56	21.61
		1	24	21.29	21.39	21.48
		12	0	20.57	20.59	20.52
		12	6	20.58	20.46	20.63
		12	13	20.36	20.49	20.43
		25	0	20.64	20.44	20.62
	16QAM	1	0	20.42	20.91	20.93
		1	12	20.49	21.15	20.94

		1	24	20.52	20.77	20.85
		12	0	19.56	19.62	19.50
		12	6	19.69	19.63	19.45
		12	13	19.46	19.48	19.44
		25	0	19.49	19.61	19.48
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	21.50	N/A
		1	24	N/A	21.41	N/A
		1	49	N/A	21.27	N/A
		25	0	N/A	20.41	N/A
		25	12	N/A	20.38	N/A
		25	25	N/A	20.47	N/A
		50	0	N/A	20.50	N/A
	16QAM	1	0	N/A	20.56	N/A
		1	24	N/A	20.77	N/A
		1	49	N/A	20.60	N/A
		25	0	N/A	19.63	N/A
		25	12	N/A	19.68	N/A
		25	25	N/A	19.54	N/A
		50	0	N/A	19.42	N/A

7.1.8. LTE Band 26(824-849MHz)

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.	Channel No.
				26797	26865	26915	27033
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				824.70	831.50	836.50	848.30
1.4MHz	QPSK	1	0	21.57	21.31	21.37	21.48
		1	2	21.64	21.66	21.74	21.51
		1	5	21.22	21.52	21.55	21.34
		3	0	21.37	21.39	21.29	21.48
		3	1	21.37	21.70	21.78	21.74
		3	3	21.35	21.43	21.33	21.53
		6	0	20.56	20.66	20.58	20.48
	16QAM	1	0	20.49	20.39	20.35	20.70
		1	2	20.44	20.64	20.69	20.49
		1	5	20.74	20.53	20.47	20.46
		3	0	20.53	21.00	21.00	20.88
		3	1	20.63	21.00	21.00	20.89
		3	3	20.60	20.83	20.77	20.92
		6	0	19.67	19.37	19.31	19.54
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.	Channel No.
				26805	26865	26915	27025
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				825.50	831.50	836.50	847.50
3MHz	QPSK	1	0	21.56	21.43	21.35	21.50
		1	12	21.40	21.64	21.55	21.59
		1	24	21.33	21.44	21.34	21.53
		12	0	20.30	20.70	20.78	20.62
		12	6	20.29	20.60	20.66	20.47
		12	13	20.46	20.43	20.38	20.52
		25	0	20.62	20.49	20.48	20.55
	16QAM	1	0	20.48	20.80	20.73	20.84
		1	12	20.57	21.09	21.00	21.07
		1	24	20.54	20.93	20.94	20.87
		12	0	19.45	19.67	19.63	19.65
		12	6	19.71	19.68	19.59	19.48
		12	13	19.44	19.42	19.39	19.56
		25	0	19.64	19.51	19.56	19.55
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.	Channel No.
				26815	26865	26915	27015
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				826.50	831.50	836.50	846.50
5MHz	QPSK	1	0	21.42	21.30	21.29	21.74
		1	24	21.49	21.60	21.68	21.55
		1	49	21.28	21.38	21.30	21.58
		25	0	20.65	20.61	20.54	20.64
		25	12	20.64	20.61	20.67	20.64
		25	25	20.43	20.41	20.42	20.49
		50	0	20.73	20.58	20.63	20.52
	16QAM	1	0	20.46	20.88	20.98	20.82
		1	24	20.54	20.93	20.99	21.10

		1	49	20.53	20.87	20.88	20.72
		25	0	19.52	19.67	19.57	19.65
		25	12	19.75	19.49	19.54	19.68
		25	25	19.41	19.69	19.77	19.63
		50	0	19.47	19.56	19.62	19.40
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.	Channel No.
				26840	26865	26915	26990
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				829.00	831.50	836.50	844.00
10MHz	QPSK	1	0	21.49	21.52	21.62	21.75
		1	38	21.31	21.50	21.50	21.52
		1	74	21.19	21.31	21.38	21.32
		36	0	20.33	20.47	20.53	20.38
		36	18	20.43	20.60	20.52	20.67
		36	37	20.46	20.39	20.34	20.64
		75	0	20.46	20.51	20.48	20.65
	16QAM	1	0	20.63	20.92	20.93	20.98
		1	38	20.70	21.09	21.04	21.12
		1	74	20.50	20.80	20.75	20.92
		36	0	19.73	19.50	19.60	19.43
		36	18	19.58	19.61	19.71	19.51
		36	37	19.50	19.60	19.52	19.50
		75	0	19.38	19.68	19.74	19.50
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.	Channel No.
				26865	26865	26915	26965
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				831.50	831.50	836.50	841.50
15MHz	QPSK	1	0	21.40	21.40	21.37	21.63
		1	49	21.55	21.55	21.49	21.59
		1	99	21.38	21.38	21.47	21.43
		50	0	20.57	20.57	20.54	20.52
		50	25	20.53	20.53	20.60	20.55
		50	50	20.50	20.50	20.52	20.50
		100	0	20.51	20.51	20.59	20.53
	16QAM	1	0	20.95	20.95	20.99	20.94
		1	49	21.05	21.05	21.13	21.00
		1	99	20.86	20.86	20.95	20.87
		50	0	19.55	19.55	19.45	19.53
		50	25	19.55	19.55	19.58	19.54
		50	50	19.54	19.54	19.54	19.53
		100	0	19.55	19.55	19.45	19.54

7.1.1.1. LTE Band 41

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				40065	40640	41215
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2537.50	2595.00	2652.50
5MHz	QPSK	1	0	22.06	21.95	22.64
		1	12	21.58	22.02	22.39
		1	24	22.07	22.11	22.71
		12	0	20.35	20.52	21.14
		12	6	20.42	20.63	21.22
		12	13	20.70	21.03	21.48
		25	0	20.54	20.50	21.36
	16QAM	1	0	20.06	20.51	21.00
		1	12	20.28	20.29	20.72
		1	24	20.05	20.01	20.68
		12	0	19.16	19.60	19.93
		12	6	19.16	19.43	20.02
		12	13	19.63	19.81	20.10
		25	0	19.26	19.39	19.75
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				40090	40640	41190
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2540.00	2595.00	2650.00
10MHz	QPSK	1	0	22.05	21.85	22.50
		1	24	21.57	21.89	22.41
		1	49	21.95	22.18	22.80
		25	0	20.40	20.61	21.38
		25	12	20.58	20.72	21.19
		25	25	20.69	20.81	21.71
		50	0	20.66	20.53	21.18
	16QAM	1	0	20.25	20.62	20.98
		1	24	20.46	20.51	20.63
		1	49	20.20	20.20	20.75
		25	0	19.31	19.62	19.94
		25	12	19.25	19.48	20.05
		25	25	19.36	19.73	20.12
		50	0	19.25	19.28	19.73
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				40115	40640	41165
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2542.50	2595.00	2647.50
15MHz	QPSK	1	0	22.05	21.98	22.66
		1	38	21.59	21.88	22.35
		1	74	22.05	22.40	22.59
		36	0	20.29	20.62	21.32
		36	18	20.62	20.85	21.13
		36	37	20.80	20.82	21.65
		75	0	20.59	20.48	21.08
	16QAM	1	0	20.06	20.58	20.76
		1	38	20.43	20.39	20.82

		1	74	20.22	19.99	20.60
		36	0	19.16	19.60	19.98
		36	18	19.07	19.43	19.94
		36	37	19.52	19.73	20.01
		75	0	19.24	19.44	19.88
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				40140	40640	41140
				Fre. (MHz)	Fre. (MHz)	Fre. (MHz)
				2545.00	2595.00	2645.00
20MHz	QPSK	1	0	21.95	21.93	22.55
		1	49	21.63	21.92	22.31
		1	99	21.99	22.26	22.71
		50	0	20.41	20.54	21.27
		50	25	20.55	20.74	21.20
		50	50	20.72	20.92	21.56
		100	0	20.52	20.63	21.22
	16QAM	1	0	20.13	20.59	20.86
		1	49	20.43	20.42	20.68
		1	99	20.20	20.06	20.64
		50	0	19.30	19.56	19.96
		50	25	19.19	19.41	19.94
		50	50	19.50	19.68	20.02
		100	0	19.15	19.36	19.76

7.1.2. 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
1.4MHz	QPSK	1	0	22.41	22.41	22.46
		1	2	22.66	22.44	22.44
		1	5	22.58	22.60	22.51
		3	0	22.46	22.55	22.43
		3	1	22.56	22.58	22.37
		3	3	22.62	22.47	22.39
		6	0	21.60	21.34	21.93
	16QAM	1	0	21.31	21.50	21.83
		1	2	21.38	21.54	21.78
		1	5	21.51	21.33	21.27
		3	0	22.37	21.22	21.78
		3	1	22.20	21.34	21.53
		3	3	22.21	21.27	21.77
		6	0	20.65	20.57	20.45
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
3MHz	QPSK	1	0	22.64	22.37	22.46
		1	8	22.43	22.47	22.57
		1	14	22.44	22.57	22.46
		8	0	21.51	21.59	21.87
		8	4	21.54	21.54	21.96
		8	7	21.42	21.33	22.00
		15	0	21.55	21.34	21.32
	16QAM	1	0	22.35	21.21	21.69
		1	8	22.17	21.05	21.67
		1	14	22.26	21.33	21.79
		8	0	20.53	20.78	21.06
		8	4	20.59	20.43	21.19
		8	7	20.64	20.52	21.20
		15	0	20.73	20.57	20.67
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
5MHz	QPSK	1	0	22.57	22.36	22.53
		1	12	22.48	22.43	22.61
		1	24	22.51	22.47	22.52
		12	0	21.51	21.39	21.79
		12	6	21.59	21.55	21.95
		12	13	21.53	21.40	21.91
		25	0	21.47	21.22	21.28
	16QAM	1	0	22.22	21.15	21.61
		1	12	22.22	21.16	21.67

		1	24	22.22	21.34	21.55
		12	0	20.53	20.61	20.93
		12	6	20.50	20.71	21.10
		12	13	20.48	20.53	20.99
		25	0	20.51	20.61	20.41
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
10MHz	QPSK	1	0	22.39	22.62	22.57
		1	24	22.46	22.40	22.50
		1	49	22.38	22.44	22.39
		25	0	21.64	21.49	21.81
		25	12	21.54	21.38	21.98
		25	25	21.45	21.61	22.00
		50	0	21.37	21.29	21.50
	16QAM	1	0	22.44	21.39	21.78
		1	24	22.17	21.28	21.69
		1	49	22.17	21.11	21.59
		25	0	20.45	20.59	21.11
		25	12	20.38	20.54	21.04
		25	25	20.54	20.60	21.25
		50	0	20.47	20.59	20.40
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
15MHz	QPSK	1	0	22.51	22.42	22.57
		1	38	22.39	22.44	22.42
		1	74	22.43	22.35	22.37
		36	0	21.55	21.40	21.99
		36	18	21.50	21.40	22.00
		36	37	21.42	21.37	21.92
		75	0	21.27	21.24	21.55
	16QAM	1	0	22.35	21.39	21.67
		1	38	22.16	21.35	21.76
		1	74	22.18	21.19	21.81
		36	0	20.61	20.52	21.10
		36	18	20.40	20.43	21.15
		36	37	20.37	20.57	21.11
		75	0	20.66	20.56	20.54
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
20MHz	QPSK	1	0	22.50	22.51	22.51
		1	49	22.53	22.45	22.50
		1	99	22.49	22.50	22.46
		50	0	21.49	21.49	21.94
		50	25	21.44	21.46	21.96
		50	50	21.45	21.46	21.93

	16QAM	100	0	21.40	21.36	21.40
		1	0	22.36	21.25	21.72
		1	49	22.29	21.20	21.67
		1	99	22.29	21.19	21.70
		50	0	20.52	20.63	21.08
		50	25	20.48	20.57	21.09
		50	50	20.50	20.56	21.10
		100	0	20.58	20.51	20.54

7.1.3. 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	22.60	22.71	22.66
		1	12	22.58	22.42	22.71
		1	24	22.59	22.70	22.63
		12	0	21.41	21.45	21.91
		12	6	21.48	21.57	22.00
		12	13	21.50	21.32	21.75
		25	0	21.68	21.35	21.69
	16QAM	1	0	22.13	21.34	21.70
		1	12	22.08	21.55	21.93
		1	24	22.11	21.63	21.79
		12	0	20.52	20.80	20.89
		12	6	20.54	20.88	20.88
		12	13	20.62	20.95	20.79
		25	0	20.84	20.67	20.73
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	22.59	22.66	22.44
		1	24	22.69	22.44	22.71
		1	49	22.67	22.52	22.79
		25	0	21.50	21.61	21.78
		25	12	21.38	21.66	22.00
		25	25	21.60	21.45	21.96
		50	0	21.47	21.39	21.65
	16QAM	1	0	22.12	21.44	21.49
		1	24	22.21	21.33	21.78
		1	49	21.99	21.77	21.80
		25	0	20.47	20.90	21.00
		25	12	20.42	21.00	20.89
		25	25	20.55	20.87	20.80
		50	0	20.87	20.67	20.96
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	22.71	22.56
		1	38	22.42	22.65	22.74
		1	74	22.62	22.72	22.73
		36	0	21.45	21.48	21.64
		36	18	21.40	21.64	21.93
		36	37	21.62	21.33	21.83
		75	0	21.69	21.40	21.62
	16QAM	1	0	22.29	21.36	21.56
		1	38	22.28	21.45	21.69

		1	74	22.12	21.73	21.57
		36	0	20.38	21.00	20.82
		36	18	20.58	20.85	20.94
		36	37	20.66	21.00	21.00
		75	0	20.76	20.89	20.81
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	22.73	22.59	22.59
		1	49	22.56	22.56	22.67
		1	99	22.68	22.63	22.72
		50	0	21.50	21.58	21.77
		50	25	21.46	21.60	21.91
		50	50	21.51	21.45	21.89
		100	0	21.56	21.36	21.76
	16QAM	1	0	22.14	21.48	21.63
		1	49	22.22	21.48	21.79
		1	99	22.13	21.67	21.70
		50	0	20.52	20.88	20.94
		50	25	20.54	20.90	20.94
		50	50	20.53	20.91	20.93
		100	0	20.81	20.82	20.81

7.2. PEAK TO AVERAGE RADIO

LIMITS

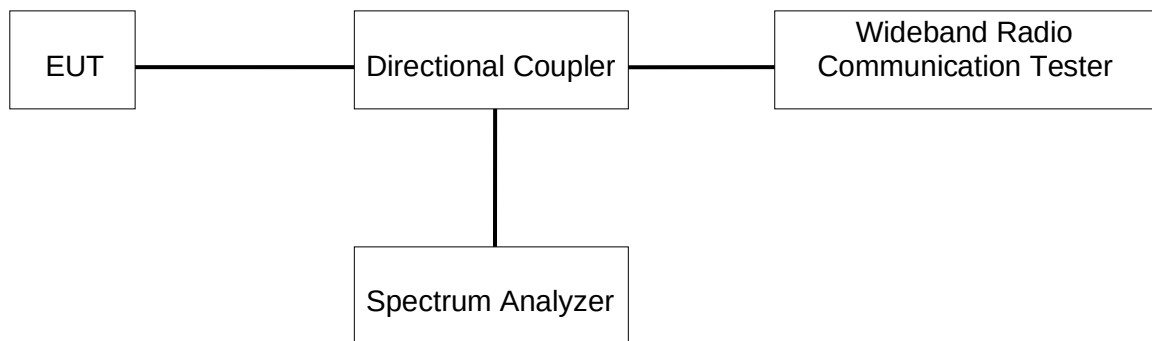
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

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	23.1°C	Relative Humidity	64.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 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

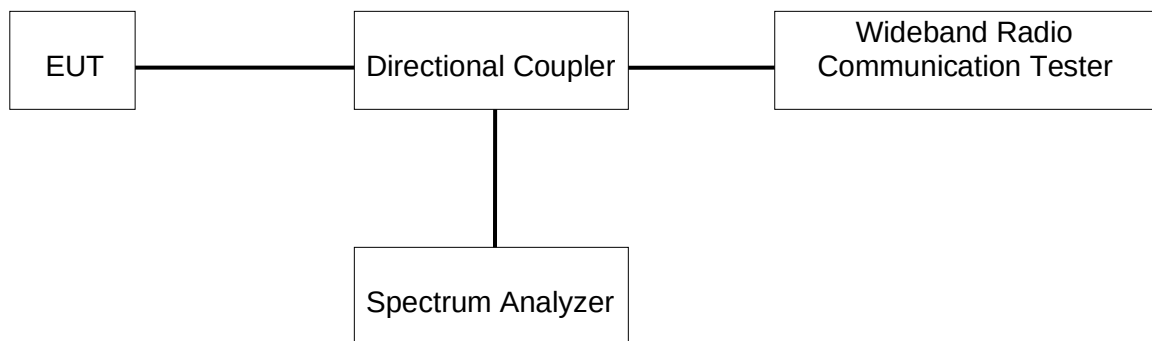
For reporting purposes only.

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	23.1°C	Relative Humidity	64.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 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

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.

Part 90.543:

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.
- (4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

Part 90.691:

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

- (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.
- (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ 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 37.5 kHz.

Part 27.53:

- (a) (4) For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:
- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341(PC2) and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and

2341(PC2) MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz;

(iii) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

(a) (5) Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the channel blocks at 2305, 2310, 2315, 2320, 2345, 2350, 2355, and 2360 MHz, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e., 1 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(4) On all frequencies between 763-775 MHz and 793-806 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log(P)$ dB.

(h) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

(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.

(l)(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph

(l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(n)(2) For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph

(n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01

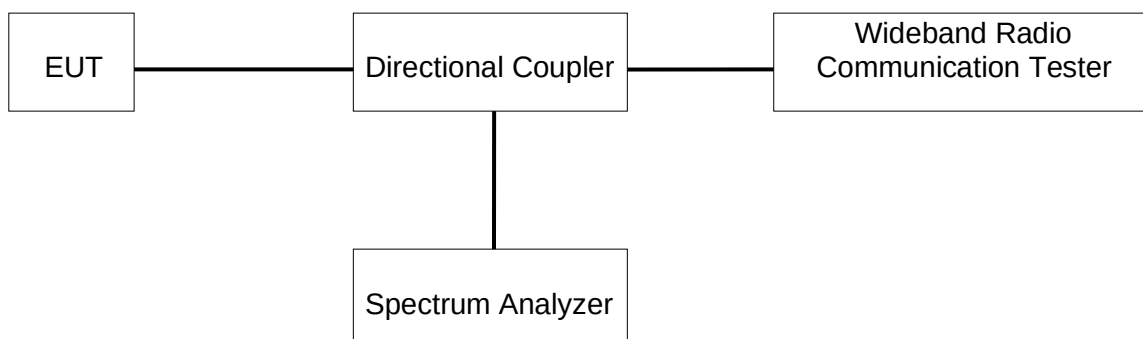
The transmitter output was connected to a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

- 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 $\geq 2 \times \text{Span} / \text{RBW}$;
- g) Trace mode = Average (100);

For frequency range of 763-775 MHz and 793-806 MHz, 769-775 MHz and 799-805 MHz.(LTE Band 13)

- a) Set the RBW = 6.2 kHz
- b) Set VBW $\geq 3 \times$ RBW;
- c) Sweep time = 1 second ;
- d) Detector = RMS;
- e) Ensure that the number of measurement points $\geq 2 \times \text{Span} / \text{RBW}$;
- f) Trace Mode = Average;

TEST SETUP



TEST ENVIRONMENT

Temperature	23.1°C	Relative Humidity	64.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 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

LIMITS

FCC: §22.901, §22.917, §24.238

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

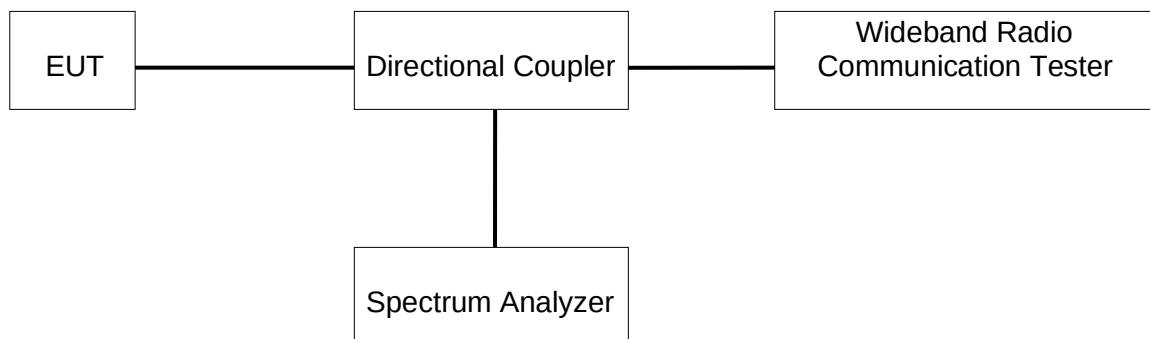
Per KDB 971168 D01 Power Meas License Digital Systems v03r01

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	23.1°C	Relative Humidity	64.2%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

RESULTS

Please refer to Appendix LTE.

7.6. FREQUENCY STABILITY

Rule Part:

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

LIMITS

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

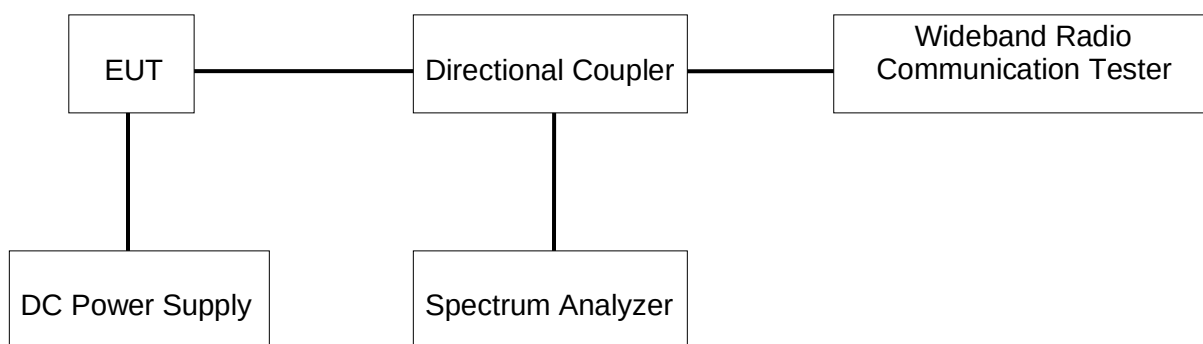
§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 3.8 V	V_L (Low Voltage): DC 3.2V
		V_H (High Voltage): DC 4.4 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: §27.53 LTE (B13)

(c) 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.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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)

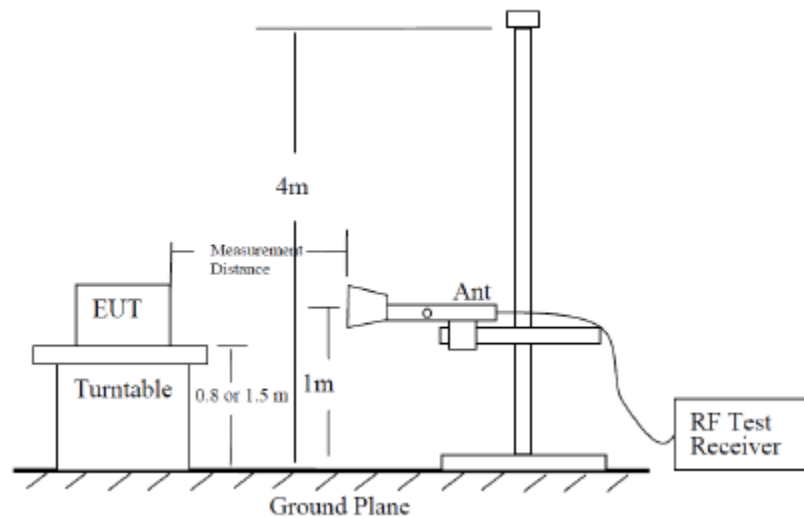
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

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

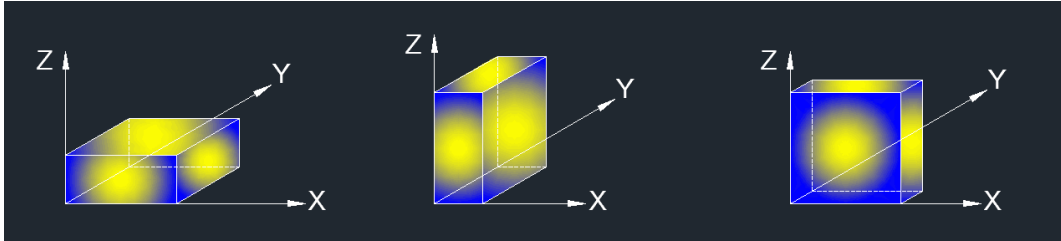
- $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
- $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$, 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	24.3°C	Relative Humidity	61%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

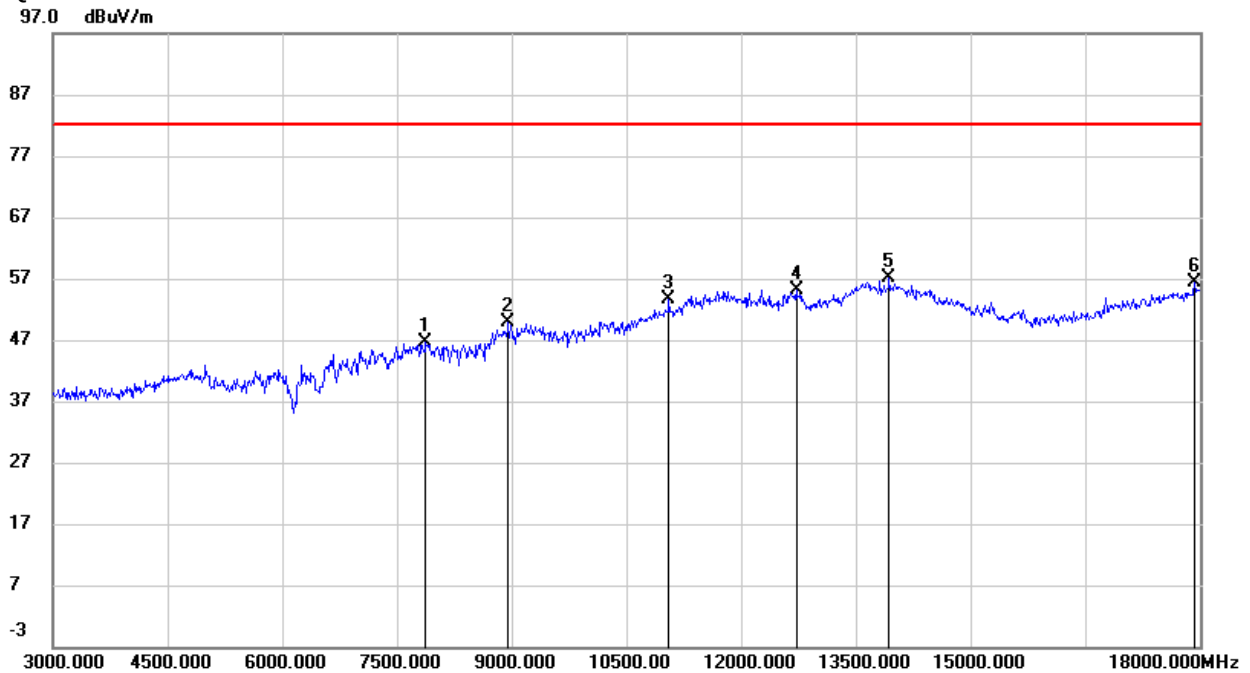
RESULTS

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	5025.000	42.23	0.47	42.70	82.25	-39.55	peak
2	7890.000	40.85	6.31	47.16	82.25	-35.09	peak
3	9135.000	39.71	10.55	50.26	82.25	-31.99	peak
4	11865.000	36.13	17.59	53.72	82.25	-28.53	peak
5	13620.000	32.32	21.15	53.47	82.25	-28.78	peak
6	17970.000	28.91	25.51	54.42	82.25	-27.83	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	7875.000	40.29	6.31	46.60	82.25	-35.65	peak
2	8955.000	39.60	10.16	49.76	82.25	-32.49	peak
3	11055.000	38.57	14.96	53.53	82.25	-28.72	peak
4	12720.000	37.10	18.08	55.18	82.25	-27.07	peak
5	13935.000	35.33	21.82	57.15	82.25	-25.10	peak
6	17925.000	31.01	25.25	56.26	82.25	-25.99	peak

QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
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1	7185.000	39.25	6.55	45.80	82.25	-36.45	peak
2	9135.000	40.68	10.55	51.23	82.25	-31.02	peak
3	10080.000	39.23	12.16	51.39	82.25	-30.86	peak
4	11670.000	38.40	17.07	55.47	82.25	-26.78	peak
5	13845.000	33.84	21.62	55.46	82.25	-26.79	peak
6	17985.000	28.19	25.60	53.79	82.25	-28.46	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	4800.000	43.18	-0.31	42.87	82.25	-39.38	peak
2	7710.000	40.19	6.33	46.52	82.25	-35.73	peak
3	9285.000	39.32	10.61	49.93	82.25	-32.32	peak
4	12300.000	38.18	17.74	55.92	82.25	-26.33	peak
5	13590.000	35.38	21.09	56.47	82.25	-25.78	peak
6	18000.000	29.60	25.69	55.29	82.25	-26.96	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	4785.000	42.87	-0.37	42.50	82.25	-39.75	peak
2	6660.000	39.81	5.02	44.83	82.25	-37.42	peak
3	9135.000	39.49	10.55	50.04	82.25	-32.21	peak
4	11775.000	37.14	17.35	54.49	82.25	-27.76	peak
5	13590.000	35.72	21.09	56.81	82.25	-25.44	peak
6	17580.000	32.11	23.20	55.31	82.25	-26.94	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	43.56	0.43	43.99	82.25	-38.26	peak
2	7275.000	39.14	6.49	45.63	82.25	-36.62	peak
3	9270.000	39.90	10.59	50.49	82.25	-31.76	peak
4	11820.000	37.43	17.47	54.90	82.25	-27.35	peak
5	13845.000	34.37	21.62	55.99	82.25	-26.26	peak
6	17970.000	29.97	25.51	55.48	82.25	-26.77	peak

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

8.1.2. LTE Band 4

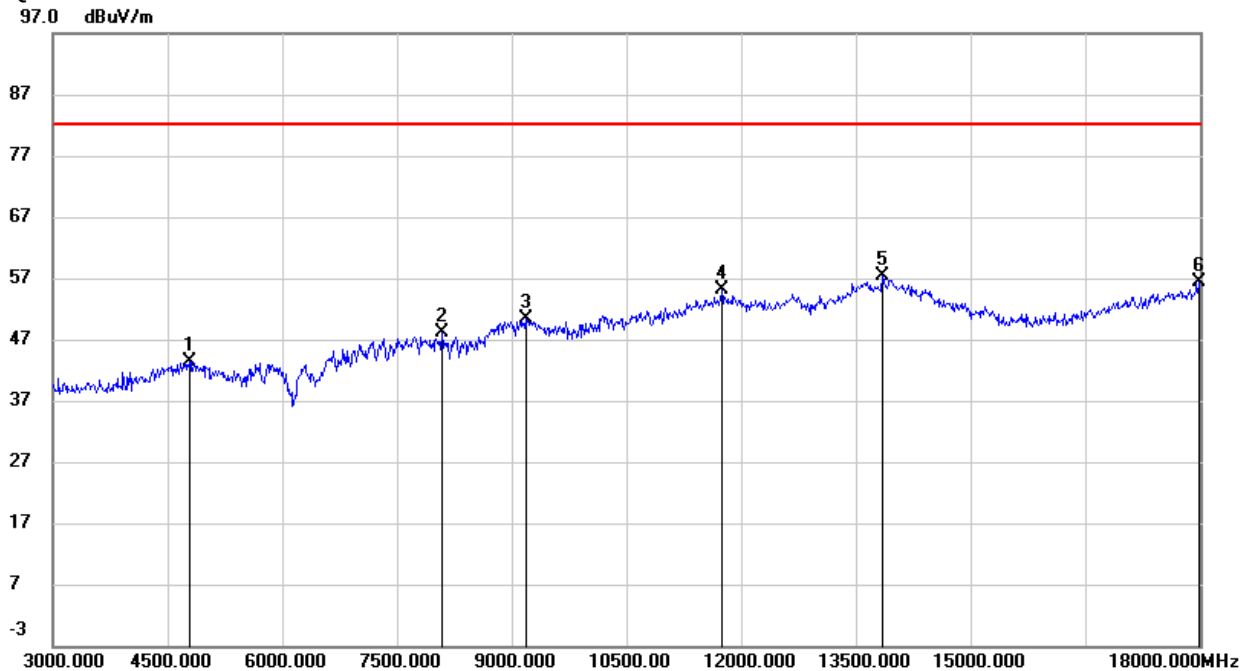
QPSK-20 MHz-Low Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4755.000	44.99	-0.48	44.51	82.25	-37.74	peak
2	7500.000	41.81	6.33	48.14	82.25	-34.11	peak
3	8910.000	39.77	9.82	49.59	82.25	-32.66	peak
4	11715.000	38.34	17.19	55.53	82.25	-26.72	peak
5	14040.000	35.20	21.79	56.99	82.25	-25.26	peak
6	17970.000	30.75	25.51	56.26	82.25	-25.99	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	41.98	0.43	42.41	82.25	-39.84	peak
2	7710.000	40.33	6.33	46.66	82.25	-35.59	peak
3	8985.000	39.10	10.37	49.47	82.25	-32.78	peak
4	11655.000	37.44	17.01	54.45	82.25	-27.80	peak
5	13635.000	36.06	21.19	57.25	82.25	-25.00	peak
6	18000.000	29.90	25.69	55.59	82.25	-26.66	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	4785.000	43.75	-0.37	43.38	82.25	-38.87	peak
2	8085.000	41.64	6.40	48.04	82.25	-34.21	peak
3	9180.000	39.89	10.56	50.45	82.25	-31.80	peak
4	11745.000	37.74	17.27	55.01	82.25	-27.24	peak
5	13845.000	35.64	21.62	57.26	82.25	-24.99	peak
6	17985.000	30.86	25.60	56.46	82.25	-25.79	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	5925.000	40.81	2.04	42.85	82.25	-39.40	peak
2	7605.000	40.57	6.32	46.89	82.25	-35.36	peak
3	9060.000	38.97	10.51	49.48	82.25	-32.77	peak
4	11835.000	36.72	17.51	54.23	82.25	-28.02	peak
5	13770.000	35.48	21.47	56.95	82.25	-25.30	peak
6	17940.000	30.65	25.34	55.99	82.25	-26.26	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	4770.000	42.30	-0.43	41.87	82.25	-40.38	peak
2	8010.000	40.17	6.32	46.49	82.25	-35.76	peak
3	9225.000	38.80	10.58	49.38	82.25	-32.87	peak
4	11985.000	36.14	17.92	54.06	82.25	-28.19	peak
5	13575.000	35.32	21.06	56.38	82.25	-25.87	peak
6	17430.000	33.19	22.47	55.66	82.25	-26.59	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	5085.000	44.34	0.52	44.86	82.25	-37.39	peak
2	9150.000	38.49	10.54	49.03	82.25	-33.22	peak
3	10665.000	37.68	13.58	51.26	82.25	-30.99	peak
4	12645.000	37.85	17.92	55.77	82.25	-26.48	peak
5	13620.000	35.38	21.15	56.53	82.25	-25.72	peak
6	18000.000	30.33	25.69	56.02	82.25	-26.23	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	47.75	-8.52	39.23	82.25	-43.02	peak
2	4438.000	43.92	-2.42	41.50	82.25	-40.75	peak
3	4879.000	43.28	-0.63	42.65	82.25	-39.60	peak
4	6670.000	39.42	4.57	43.99	82.25	-38.26	peak
5	7885.000	40.33	5.66	45.99	82.25	-36.26	peak
6	9136.000	38.28	9.80	48.08	82.25	-34.17	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	2413.000	58.10	-8.94	49.16	82.25	-33.09	peak
2	4996.000	41.74	-0.17	41.57	82.25	-40.68	peak
3	7030.000	37.58	6.18	43.76	82.25	-38.49	peak
4	7759.000	39.97	5.67	45.64	82.25	-36.61	peak
5	8875.000	38.90	8.86	47.76	82.25	-34.49	peak
6	9253.000	38.21	9.83	48.04	82.25	-34.21	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	2260.000	46.07	-9.72	36.35	82.25	-45.90	peak
2	2836.000	45.81	-7.48	38.33	82.25	-43.92	peak
3	4951.000	42.62	-0.34	42.28	82.25	-39.97	peak
4	6850.000	39.19	5.46	44.65	82.25	-37.60	peak
5	8947.000	38.39	9.37	47.76	82.25	-34.49	peak
6	9145.000	38.18	9.80	47.98	82.25	-34.27	peak

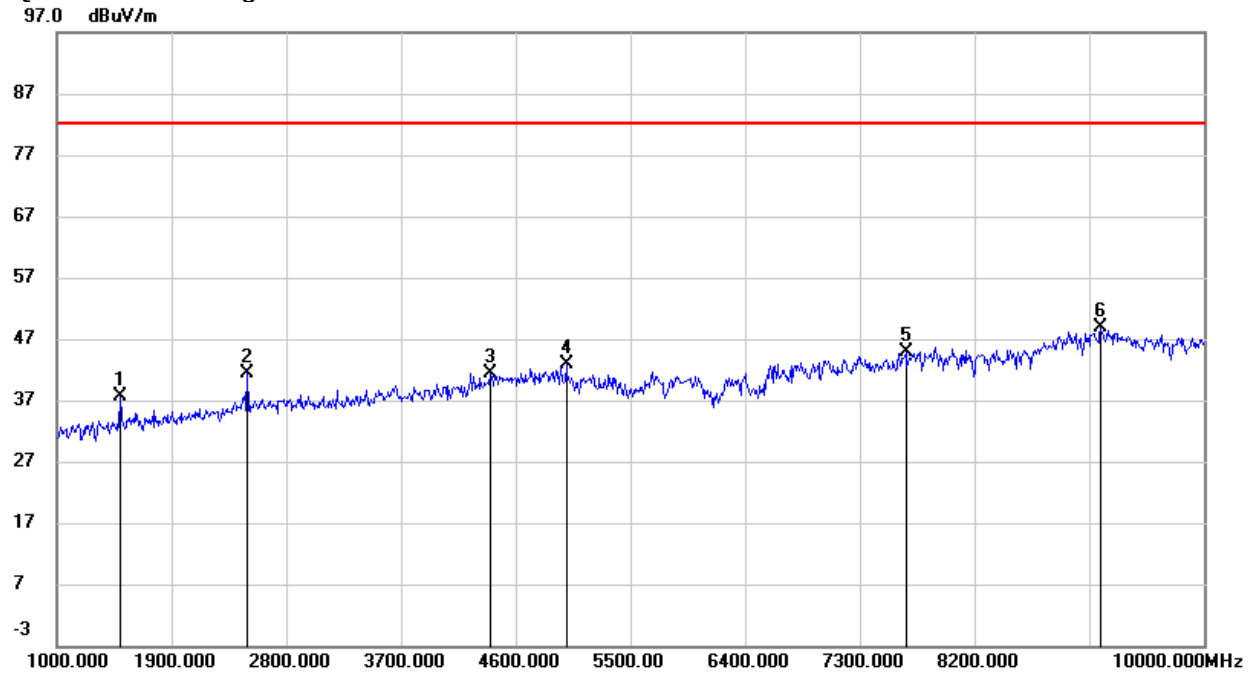
QPSK-10 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2476.000	52.34	-8.61	43.73	82.25	-38.52	peak
2	4438.000	43.69	-2.42	41.27	82.25	-40.98	peak
3	4897.000	44.17	-0.55	43.62	82.25	-38.63	peak
4	5905.000	41.33	1.58	42.91	82.25	-39.34	peak
5	7768.000	39.52	5.66	45.18	82.25	-37.07	peak
6	9199.000	38.26	9.82	48.08	82.25	-34.17	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	47.42	-8.52	38.90	82.25	-43.35	peak
2	3430.000	45.89	-6.01	39.88	82.25	-42.37	peak
3	4438.000	43.77	-2.42	41.35	82.25	-40.90	peak
4	6670.000	38.13	4.57	42.70	82.25	-39.55	peak
5	7732.000	39.29	5.68	44.97	82.25	-37.28	peak
6	8947.000	39.18	9.37	48.55	82.25	-33.70	peak

QPSK-10 MHz-High Channel- Vertical



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

8.1.4. 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	4920.000	42.61	0.14	42.75	70.25	-27.50	peak
2	7755.000	39.51	6.31	45.82	70.25	-24.43	peak
3	9135.000	38.18	10.55	48.73	70.25	-21.52	peak
4	11745.000	37.45	17.27	54.72	70.25	-15.53	peak
5	13590.000	36.50	21.09	57.59	70.25	-12.66	peak
6	17970.000	30.56	25.51	56.07	70.25	-14.18	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	4815.000	43.20	-0.26	42.94	70.25	-27.31	peak
2	9255.000	38.04	10.59	48.63	70.25	-21.62	peak
3	10875.000	35.90	14.32	50.22	70.25	-20.03	peak
4	11865.000	36.21	17.59	53.80	70.25	-16.45	peak
5	13920.000	34.43	21.79	56.22	70.25	-14.03	peak
6	17970.000	29.98	25.51	55.49	70.25	-14.76	peak

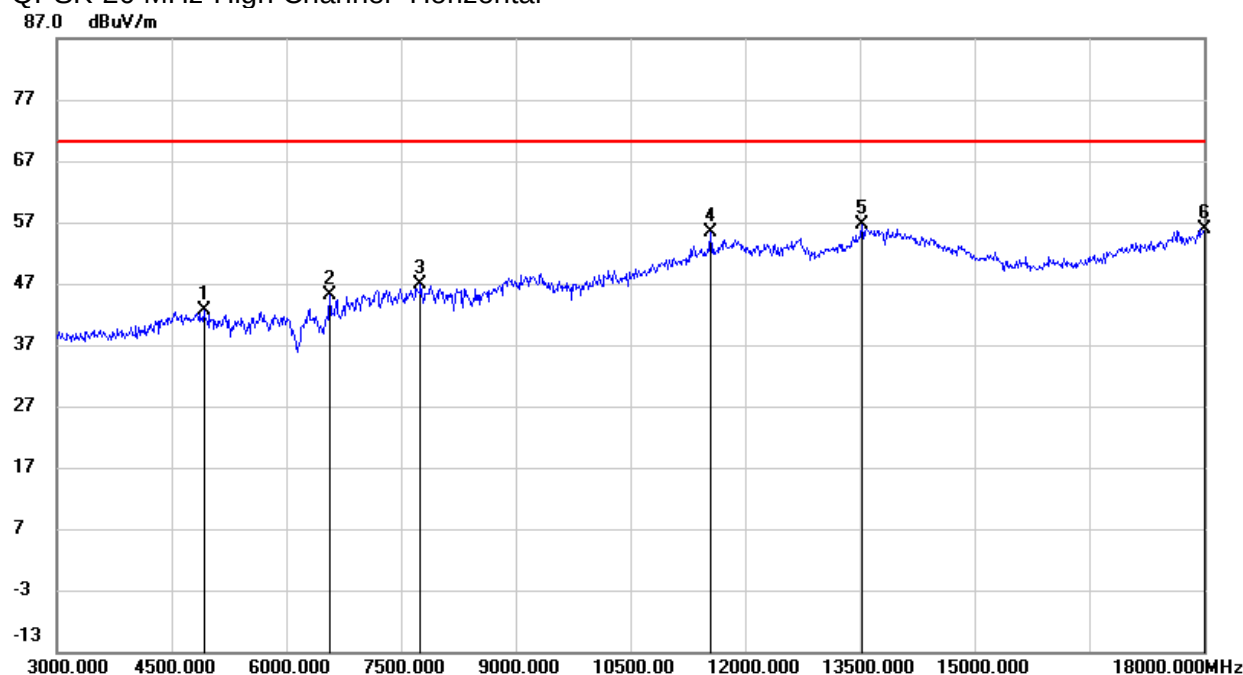
QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	6555.000	41.20	4.49	45.69	70.25	-24.56	peak
2	7170.000	40.16	6.56	46.72	70.25	-23.53	peak
3	8985.000	38.92	10.37	49.29	70.25	-20.96	peak
4	11730.000	36.29	17.22	53.51	70.25	-16.74	peak
5	13860.000	34.07	21.67	55.74	70.25	-14.51	peak
6	17970.000	29.58	25.51	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	6555.000	41.37	4.49	45.86	70.25	-24.39	peak
2	7680.000	40.29	6.32	46.61	70.25	-23.64	peak
3	9135.000	38.54	10.55	49.09	70.25	-21.16	peak
4	11910.000	36.47	17.72	54.19	70.25	-16.06	peak
5	13920.000	34.70	21.79	56.49	70.25	-13.76	peak
6	17955.000	30.09	25.42	55.51	70.25	-14.74	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	4920.000	42.54	0.14	42.68	70.25	-27.57	peak
2	6570.000	40.61	4.57	45.18	70.25	-25.07	peak
3	7755.000	40.48	6.31	46.79	70.25	-23.46	peak
4	11550.000	38.69	16.74	55.43	70.25	-14.82	peak
5	13530.000	35.73	20.96	56.69	70.25	-13.56	peak
6	18000.000	30.26	25.69	55.95	70.25	-14.30	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	4770.000	42.20	-0.43	41.77	70.25	-28.48	peak
2	6570.000	42.08	4.57	46.65	70.25	-23.60	peak
3	9195.000	38.41	10.56	48.97	70.25	-21.28	peak
4	11520.000	36.95	16.65	53.60	70.25	-16.65	peak
5	14100.000	34.67	21.55	56.22	70.25	-14.03	peak
6	17940.000	30.08	25.34	55.42	70.25	-14.83	peak

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

8.1.5. LTE Band 12

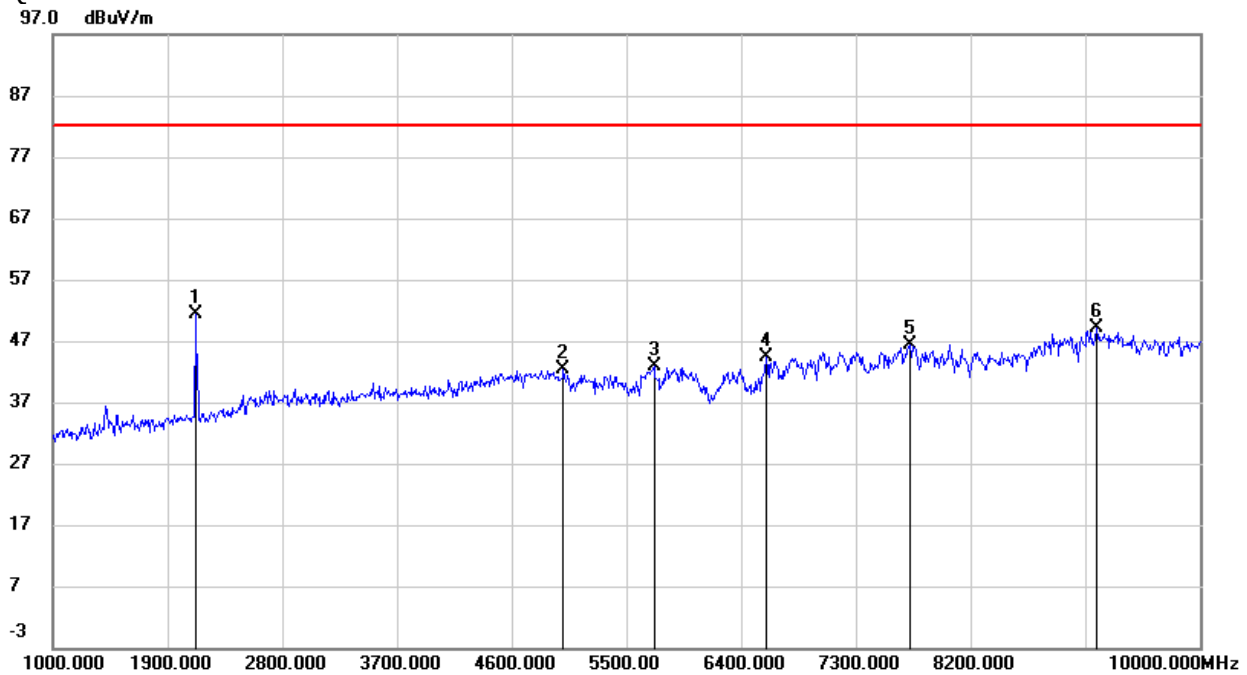
QPSK-10 MHz-Low Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2116.000	57.11	-10.47	46.64	82.25	-35.61	peak
2	3070.000	46.95	-6.82	40.13	82.25	-42.12	peak
3	4834.000	43.86	-0.81	43.05	82.25	-39.20	peak
4	6670.000	39.46	4.57	44.03	82.25	-38.22	peak
5	8128.000	40.16	5.80	45.96	82.25	-36.29	peak
6	9073.000	38.01	9.77	47.78	82.25	-34.47	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	2116.000	54.56	-10.47	44.09	82.25	-38.16	peak
2	2494.000	49.35	-8.52	40.83	82.25	-41.42	peak
3	4996.000	41.79	-0.17	41.62	82.25	-40.63	peak
4	5932.000	40.65	1.65	42.30	82.25	-39.95	peak
5	8047.000	39.19	5.70	44.89	82.25	-37.36	peak
6	9226.000	37.82	9.83	47.65	82.25	-34.60	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	2116.000	61.90	-10.47	51.43	82.25	-30.82	peak
2	5005.000	42.41	-0.14	42.27	82.25	-39.98	peak
3	5716.000	41.77	1.04	42.81	82.25	-39.44	peak
4	6598.000	40.05	4.21	44.26	82.25	-37.99	peak
5	7723.000	40.80	5.67	46.47	82.25	-35.78	peak
6	9190.000	39.21	9.81	49.02	82.25	-33.23	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	2125.000	59.38	-10.42	48.96	82.25	-33.29	peak
2	2494.000	49.84	-8.52	41.32	82.25	-40.93	peak
3	4996.000	43.32	-0.17	43.15	82.25	-39.10	peak
4	6670.000	39.40	4.57	43.97	82.25	-38.28	peak
5	7723.000	39.77	5.67	45.44	82.25	-36.81	peak
6	9145.000	39.16	9.80	48.96	82.25	-33.29	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	2134.000	51.68	-10.37	41.31	82.25	-40.94	peak
2	2494.000	55.38	-8.52	46.86	82.25	-35.39	peak
3	5860.000	42.03	1.45	43.48	82.25	-38.77	peak
4	7048.000	38.49	6.16	44.65	82.25	-37.60	peak
5	7444.000	41.77	5.75	47.52	82.25	-34.73	peak
6	9199.000	39.30	9.82	49.12	82.25	-33.13	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	2134.000	52.16	-10.37	41.79	82.25	-40.46	peak
2	2494.000	49.09	-8.52	40.57	82.25	-41.68	peak
3	4996.000	43.55	-0.17	43.38	82.25	-38.87	peak
4	7030.000	38.33	6.18	44.51	82.25	-37.74	peak
5	7885.000	40.99	5.66	46.65	82.25	-35.60	peak
6	9217.000	39.71	9.83	49.54	82.25	-32.71	peak

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

8.1.6. 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	3720.000	59.23	-2.99	56.24	82.25	-26.01	peak
2	5580.000	53.45	2.57	56.02	82.25	-26.23	peak
3	7440.000	46.26	7.55	53.81	82.25	-28.44	peak
4	8940.000	37.54	10.45	47.99	82.25	-34.26	peak
5	13020.000	39.55	18.89	58.44	82.25	-23.81	peak
6	17925.000	28.88	27.93	56.81	82.25	-25.44	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	3720.000	56.20	-1.95	54.25	82.25	-28.00	peak
2	5580.000	52.80	3.74	56.54	82.25	-25.71	peak
3	7440.000	47.72	8.09	55.81	82.25	-26.44	peak
4	11160.000	39.56	14.10	53.66	82.25	-28.59	peak
5	13020.000	44.37	17.67	62.04	82.25	-20.21	peak
6	17805.000	29.56	25.96	55.52	82.25	-26.73	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	58.10	-2.91	55.19	82.25	-27.06	peak
2	5640.000	52.00	2.58	54.58	82.25	-27.67	peak
3	7530.000	45.93	7.28	53.21	82.25	-29.04	peak
4	11010.000	36.76	14.83	51.59	82.25	-30.66	peak
5	13920.000	34.07	22.58	56.65	82.25	-25.60	peak
6	17940.000	29.38	28.01	57.39	82.25	-24.86	peak

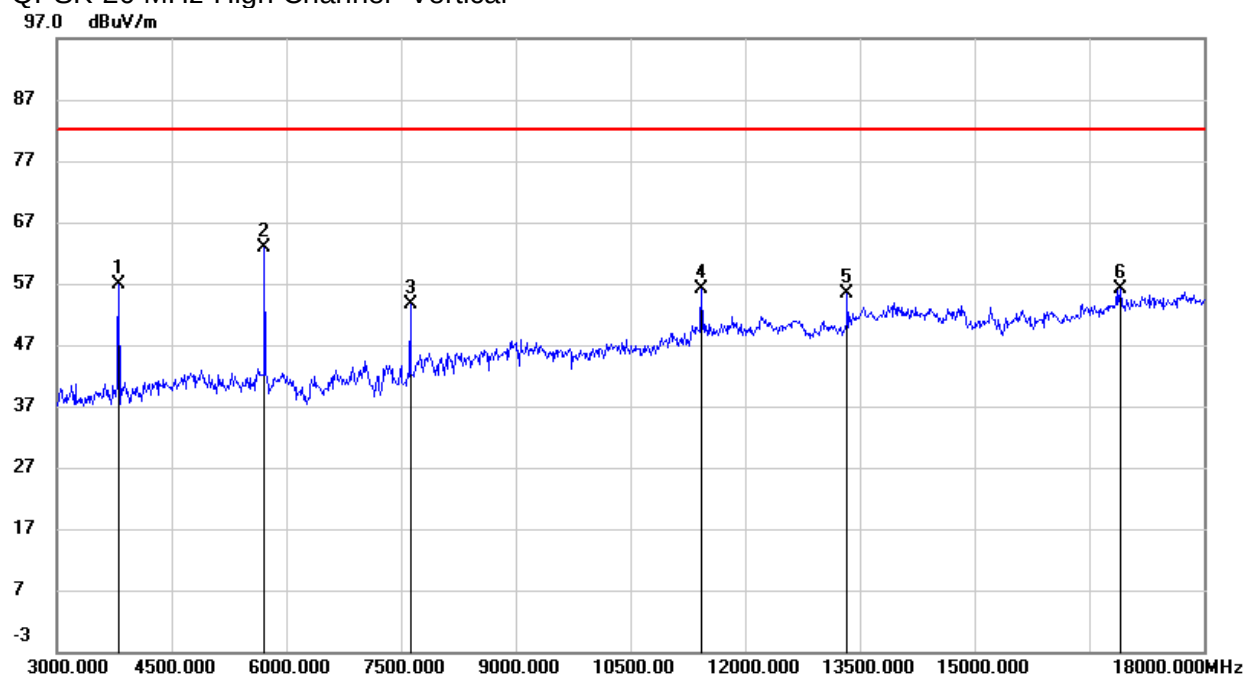
QPSK-20 MHz-Mid Channel- Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3765.000	53.40	-1.86	51.54	82.25	-30.71	peak
2	5640.000	58.16	3.73	61.89	82.25	-20.36	peak
3	7530.000	46.61	7.78	54.39	82.25	-27.86	peak
4	11295.000	40.45	14.50	54.95	82.25	-27.30	peak
5	13185.000	39.77	18.33	58.10	82.25	-24.15	peak
6	17925.000	29.31	26.06	55.37	82.25	-26.88	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	17985.000	28.90	28.25	57.15	82.25	-25.10	peak
2	13980.000	32.66	22.64	55.30	82.25	-26.95	peak
3	12570.000	34.42	17.96	52.38	82.25	-29.87	peak
4	7620.000	44.16	7.10	51.26	82.25	-30.99	peak
5	5715.000	54.58	2.42	57.00	82.25	-25.25	peak
6	3810.000	57.09	-2.85	54.24	82.25	-28.01	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	3810.000	58.60	-1.79	56.81	82.25	-25.44	peak
2	5715.000	59.34	3.54	62.88	82.25	-19.37	peak
3	7620.000	45.96	7.60	53.56	82.25	-28.69	peak
4	11430.000	41.17	14.96	56.13	82.25	-26.12	peak
5	13335.000	36.16	19.18	55.34	82.25	-26.91	peak
6	16905.000	32.80	23.21	56.01	82.25	-26.24	peak

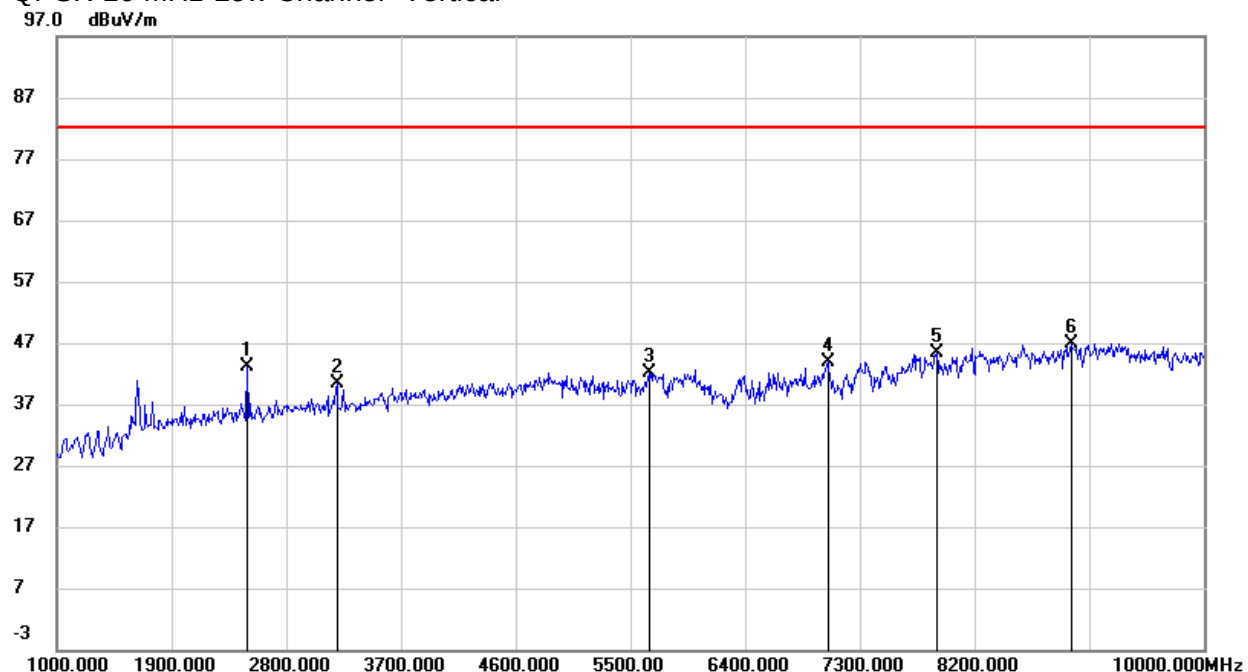
Note: Limit= -13dBm+95.25=82.25 dBuV/m

8.1.7. 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	1639.000	55.48	-11.13	44.35	82.25	-37.90	peak
2	2458.000	49.22	-8.05	41.17	82.25	-41.08	peak
3	5752.000	40.07	1.94	42.01	82.25	-40.24	peak
4	7354.000	36.04	6.97	43.01	82.25	-39.24	peak
5	8587.000	36.89	8.23	45.12	82.25	-37.13	peak
6	9577.000	36.10	10.65	46.75	82.25	-35.50	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	50.51	-7.27	43.24	82.25	-39.01	peak
2	3196.000	44.91	-4.46	40.45	82.25	-41.80	peak
3	5653.000	39.05	3.15	42.20	82.25	-40.05	peak
4	7048.000	36.42	7.55	43.97	82.25	-38.28	peak
5	7903.000	38.17	7.30	45.47	82.25	-36.78	peak
6	8956.000	36.58	10.36	46.94	82.25	-35.31	peak

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

8.1.8. 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	1648.000	53.12	-11.09	42.03	82.25	-40.22	peak
2	2467.000	55.18	-8.06	47.12	82.25	-35.13	peak
3	4825.000	41.95	0.06	42.01	82.25	-40.24	peak
4	5671.000	39.48	1.99	41.47	82.25	-40.78	peak
5	7498.000	36.77	6.97	43.74	82.25	-38.51	peak
6	9001.000	36.58	10.47	47.05	82.25	-35.20	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	1648.000	49.87	-10.76	39.11	82.25	-43.14	peak
2	2494.000	51.95	-7.27	44.68	82.25	-37.57	peak
3	4996.000	41.74	1.82	43.56	82.25	-38.69	peak
4	5977.000	39.25	3.82	43.07	82.25	-39.18	peak
5	7309.000	37.07	7.33	44.40	82.25	-37.85	peak
6	9334.000	38.09	10.05	48.14	82.25	-34.11	peak

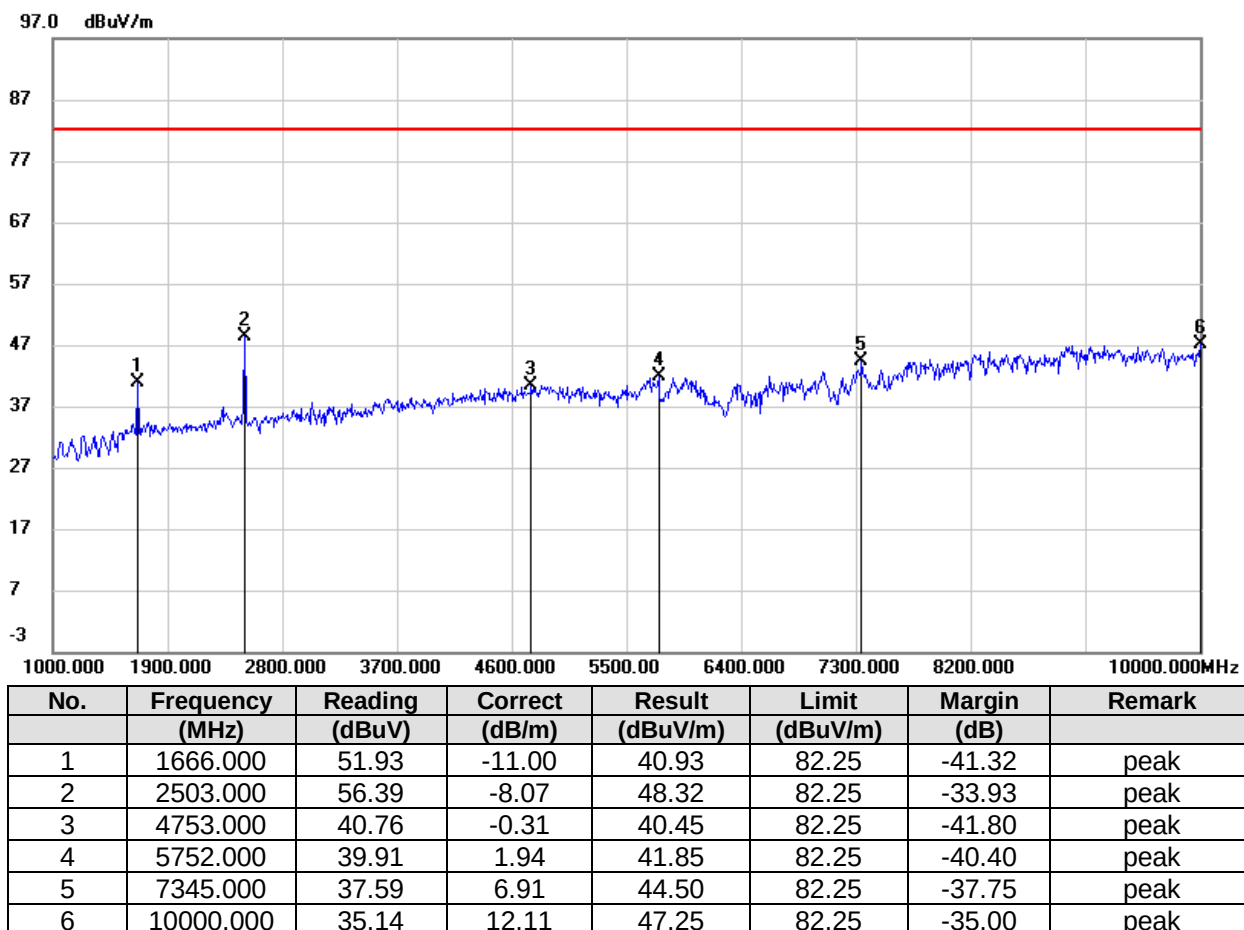
QPSK-15 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1657.000	50.70	-11.05	39.65	82.25	-42.60	peak
2	2485.000	53.36	-8.07	45.29	82.25	-36.96	peak
3	4735.000	41.02	-0.41	40.61	82.25	-41.64	peak
4	6004.000	38.70	2.92	41.62	82.25	-40.63	peak
5	7498.000	36.93	6.97	43.90	82.25	-38.35	peak
6	9352.000	36.26	9.95	46.21	82.25	-36.04	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	1657.000	51.92	-10.70	41.22	82.25	-41.03	peak
2	2494.000	51.22	-7.27	43.95	82.25	-38.30	peak
3	4312.000	42.01	-0.96	41.05	82.25	-41.20	peak
4	5995.000	38.83	3.90	42.73	82.25	-39.52	peak
5	7318.000	37.30	7.38	44.68	82.25	-37.57	peak
6	9001.000	36.52	10.87	47.39	82.25	-34.86	peak

QPSK-15 MHz-High Channel- Horizontal



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	51.30	-7.27	44.03	82.25	-38.22	peak
2	3250.000	44.95	-4.46	40.49	82.25	-41.76	peak
3	4402.000	42.91	-0.85	42.06	82.25	-40.19	peak
4	5860.000	39.12	3.27	42.39	82.25	-39.86	peak
5	7039.000	36.17	7.59	43.76	82.25	-38.49	peak
6	8947.000	37.04	10.27	47.31	82.25	-34.94	peak

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

8.1.9. 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	5085.000	51.50	1.23	52.73	70.25	-17.52	peak
2	7350.000	36.77	7.34	44.11	70.25	-26.14	peak
3	9000.000	35.95	11.27	47.22	70.25	-23.03	peak
4	12705.000	34.63	18.30	52.93	70.25	-17.32	peak
5	13920.000	32.62	22.58	55.20	70.25	-15.05	peak
6	17775.000	30.13	27.00	57.13	70.25	-13.12	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	5085.000	48.04	2.43	50.47	70.25	-19.78	peak
2	7035.000	36.53	8.26	44.79	70.25	-25.46	peak
3	9210.000	37.79	10.36	48.15	70.25	-22.10	peak
4	10185.000	40.65	11.92	52.57	70.25	-17.68	peak
5	14430.000	33.88	20.36	54.24	70.25	-16.01	peak
6	17715.000	29.88	25.41	55.29	70.25	-14.96	peak

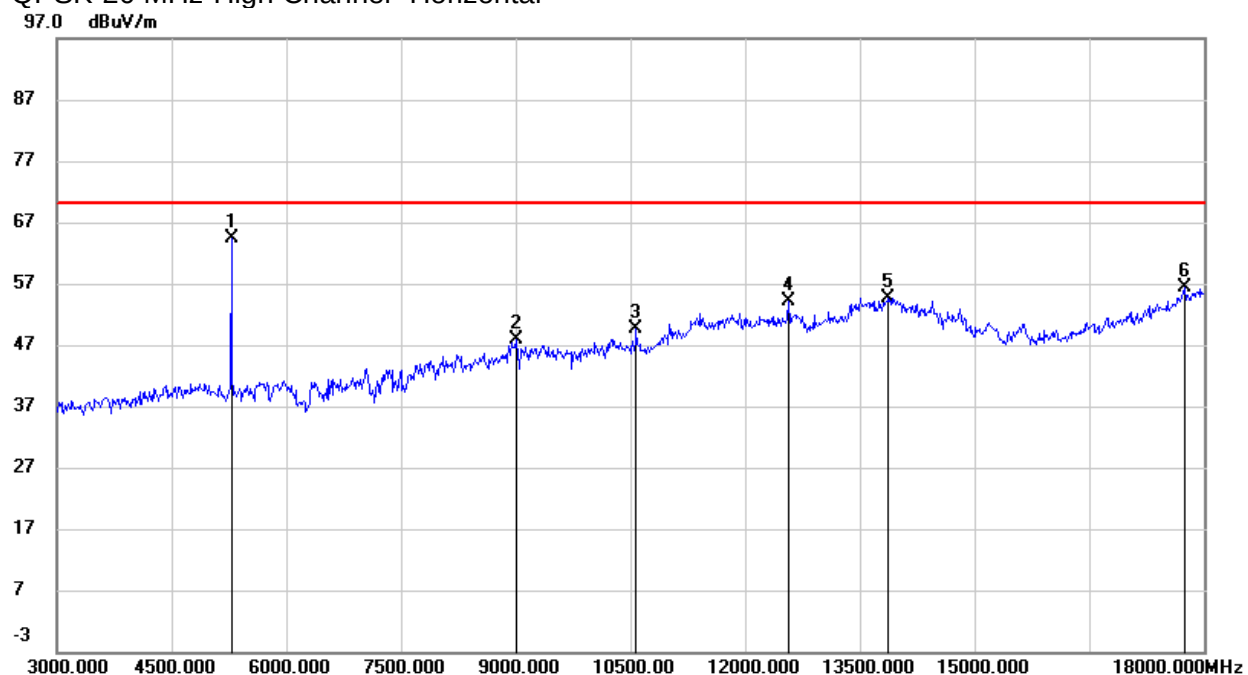
QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5190.000	54.06	1.48	55.54	70.25	-14.71	peak
2	7350.000	36.36	7.34	43.70	70.25	-26.55	peak
3	9360.000	36.94	10.46	47.40	70.25	-22.85	peak
4	12630.000	34.58	18.01	52.59	70.25	-17.66	peak
5	13950.000	32.62	22.61	55.23	70.25	-15.02	peak
6	18000.000	29.27	28.33	57.60	70.25	-12.65	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	5190.000	54.06	1.48	55.54	70.25	-14.71	peak
2	7350.000	36.36	7.34	43.70	70.25	-26.55	peak
3	9360.000	36.94	10.46	47.40	70.25	-22.85	peak
4	12630.000	34.58	18.01	52.59	70.25	-17.66	peak
5	13950.000	32.62	22.61	55.23	70.25	-15.02	peak
6	18000.000	29.27	28.33	57.60	70.25	-12.65	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	5280.000	62.85	1.56	64.41	70.25	-5.84	peak
2	9000.000	36.55	11.27	47.82	70.25	-22.43	peak
3	10575.000	35.95	13.60	49.55	70.25	-20.70	peak
4	12570.000	36.26	17.96	54.22	70.25	-16.03	peak
5	13875.000	32.14	22.53	54.67	70.25	-15.58	peak
6	17745.000	29.59	26.67	56.26	70.25	-13.99	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	5280.000	58.12	2.76	60.88	70.25	-9.37	peak
2	9000.000	35.59	11.67	47.26	70.25	-22.99	peak
3	10575.000	42.56	13.31	55.87	70.25	-14.38	peak
4	12660.000	35.32	17.13	52.45	70.25	-17.80	peak
5	13950.000	33.36	21.00	54.36	70.25	-15.89	peak
6	17715.000	29.91	25.41	55.32	70.25	-14.93	peak

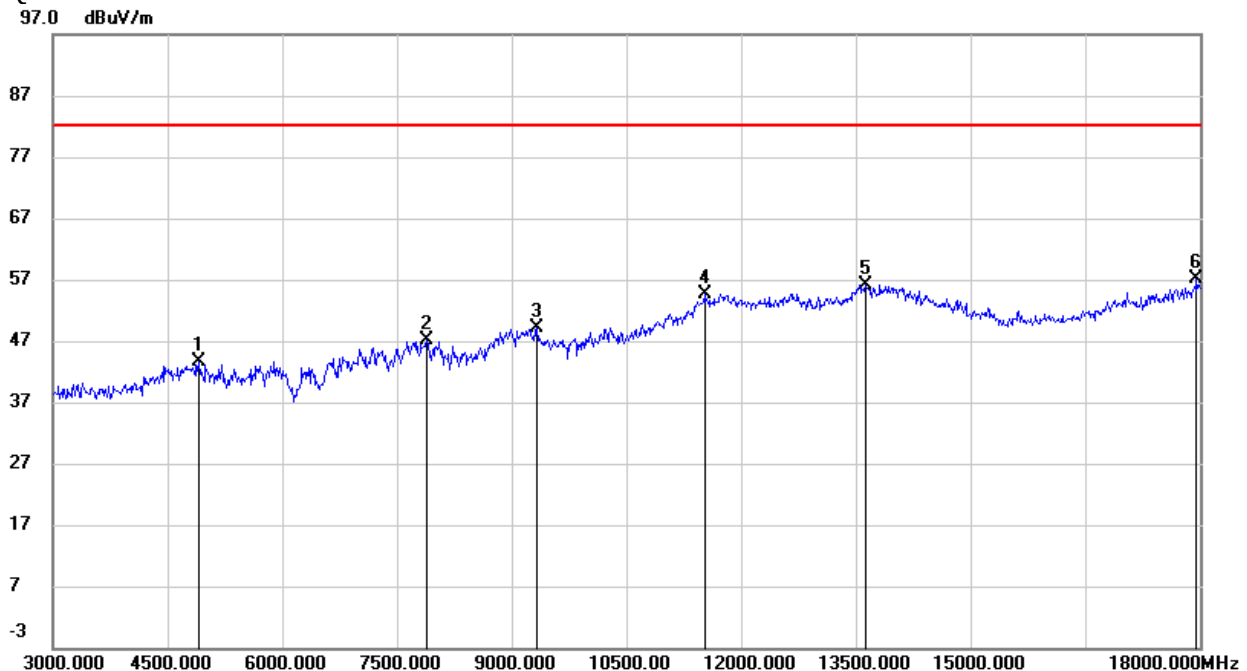
Note: Limit= -25dBm+95.25=70.25 dBuV/m

8.1.10. 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	4890.000	42.65	0.03	42.68	82.25	-39.57	peak
2	7605.000	39.74	6.32	46.06	82.25	-36.19	peak
3	9060.000	38.33	10.51	48.84	82.25	-33.41	peak
4	11535.000	36.99	16.70	53.69	82.25	-28.56	peak
5	13965.000	34.54	21.89	56.43	82.25	-25.82	peak
6	17970.000	30.09	25.51	55.60	82.25	-26.65	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	4905.000	43.49	0.09	43.58	82.25	-38.67	peak
2	7890.000	40.89	6.31	47.20	82.25	-35.05	peak
3	9330.000	38.52	10.62	49.14	82.25	-33.11	peak
4	11520.000	37.97	16.65	54.62	82.25	-27.63	peak
5	13635.000	35.00	21.19	56.19	82.25	-26.06	peak
6	17955.000	31.63	25.42	57.05	82.25	-25.20	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	4665.000	43.45	-0.83	42.62	82.25	-39.63	peak
2	7935.000	39.59	6.32	45.91	82.25	-36.34	peak
3	9060.000	39.22	10.51	49.73	82.25	-32.52	peak
4	11715.000	37.04	17.19	54.23	82.25	-28.02	peak
5	13755.000	34.29	21.45	55.74	82.25	-26.51	peak
6	17940.000	30.86	25.34	56.20	82.25	-26.05	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	6660.000	40.69	5.02	45.71	82.25	-36.54	peak
2	9135.000	39.15	10.55	49.70	82.25	-32.55	peak
3	11640.000	37.34	16.98	54.32	82.25	-27.93	peak
4	12750.000	36.42	18.16	54.58	82.25	-27.67	peak
5	13770.000	35.05	21.47	56.52	82.25	-25.73	peak
6	17985.000	30.07	25.60	55.67	82.25	-26.58	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	5700.000	41.11	1.41	42.52	82.25	-39.73	peak
2	7695.000	39.44	6.32	45.76	82.25	-36.49	peak
3	9240.000	39.10	10.58	49.68	82.25	-32.57	peak
4	11895.000	36.51	17.68	54.19	82.25	-28.06	peak
5	13560.000	35.26	21.04	56.30	82.25	-25.95	peak
6	17955.000	30.02	25.42	55.44	82.25	-26.81	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	4890.000	43.02	0.03	43.05	82.25	-39.20	peak
2	7485.000	39.90	6.34	46.24	82.25	-36.01	peak
3	9300.000	38.95	10.61	49.56	82.25	-32.69	peak
4	11535.000	37.40	16.70	54.10	82.25	-28.15	peak
5	13665.000	35.37	21.25	56.62	82.25	-25.63	peak
6	17955.000	30.60	25.42	56.02	82.25	-26.23	peak

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

8.1.11. 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	2017.000	57.11	-10.19	46.92	82.25	-35.33	peak
2	4861.000	40.43	0.18	40.61	82.25	-41.64	peak
3	5959.000	38.60	2.72	41.32	82.25	-40.93	peak
4	7498.000	36.67	6.97	43.64	82.25	-38.61	peak
5	9001.000	36.46	10.47	46.93	82.25	-35.32	peak
6	9937.000	35.22	11.81	47.03	82.25	-35.22	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	50.51	-7.27	43.24	82.25	-39.01	peak
2	3637.000	43.26	-2.94	40.32	82.25	-41.93	peak
3	5725.000	39.46	3.07	42.53	82.25	-39.72	peak
4	7282.000	37.14	7.17	44.31	82.25	-37.94	peak
5	8236.000	36.66	8.83	45.49	82.25	-36.76	peak
6	8947.000	37.08	10.27	47.35	82.25	-34.90	peak

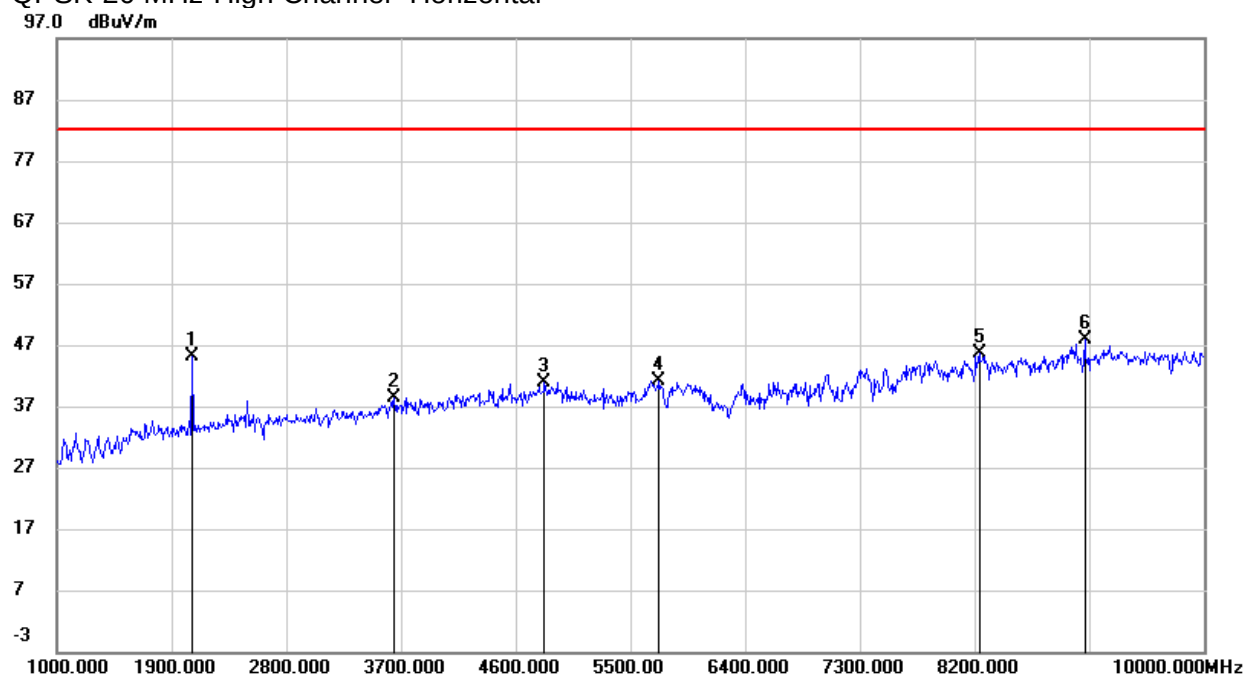
QPSK-20 MHz-Mid Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2044.000	60.53	-10.03	50.50	82.25	-31.75	peak
2	3619.000	43.15	-4.02	39.13	82.25	-43.12	peak
3	4996.000	41.03	0.62	41.65	82.25	-40.60	peak
4	5950.000	39.46	2.68	42.14	82.25	-40.11	peak
5	7498.000	38.19	6.97	45.16	82.25	-37.09	peak
6	8965.000	36.80	10.06	46.86	82.25	-35.39	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	1747.000	47.74	-10.11	37.63	82.25	-44.62	peak
2	2494.000	51.22	-7.27	43.95	82.25	-38.30	peak
3	3196.000	45.61	-4.46	41.15	82.25	-41.10	peak
4	5671.000	39.12	3.13	42.25	82.25	-40.00	peak
5	7309.000	37.30	7.33	44.63	82.25	-37.62	peak
6	8947.000	36.92	10.27	47.19	82.25	-35.06	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	2062.000	55.13	-9.93	45.20	82.25	-37.05	peak
2	3646.000	42.35	-3.94	38.41	82.25	-43.84	peak
3	4825.000	40.78	0.06	40.84	82.25	-41.41	peak
4	5725.000	39.23	1.96	41.19	82.25	-41.06	peak
5	8236.000	37.38	8.29	45.67	82.25	-36.58	peak
6	9064.000	37.79	10.19	47.98	82.25	-34.27	peak

QPSK-20 MHz-High Channel- Vertical

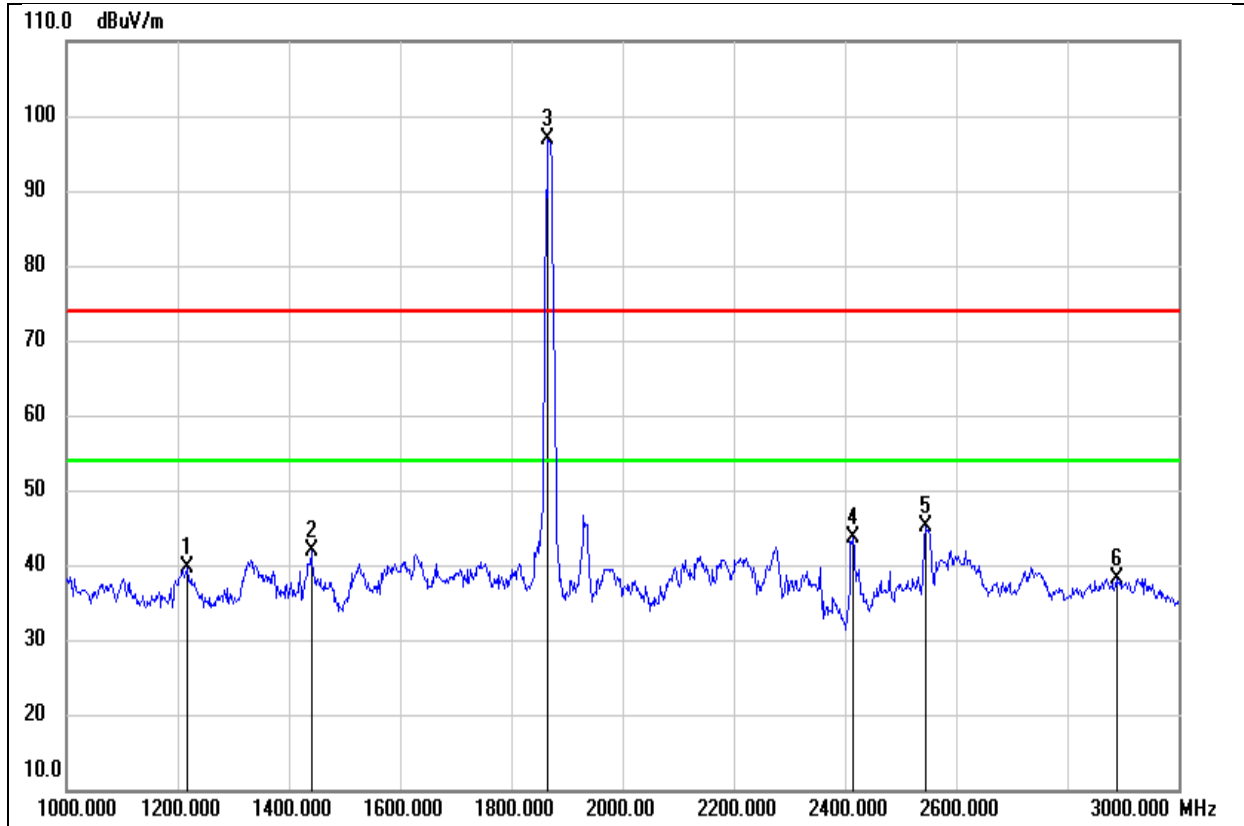
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1747.000	48.79	-10.11	38.68	82.25	-43.57	peak
2	2494.000	50.94	-7.27	43.67	82.25	-38.58	peak
3	3187.000	45.14	-4.48	40.66	82.25	-41.59	peak
4	4996.000	41.23	1.82	43.05	82.25	-39.20	peak
5	7057.000	36.49	7.49	43.98	82.25	-38.27	peak
6	8983.000	36.60	10.68	47.28	82.25	-34.97	peak

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

8.1.1. LTE Band 2 & 2.4GHz WiFi Simultaneous transmission

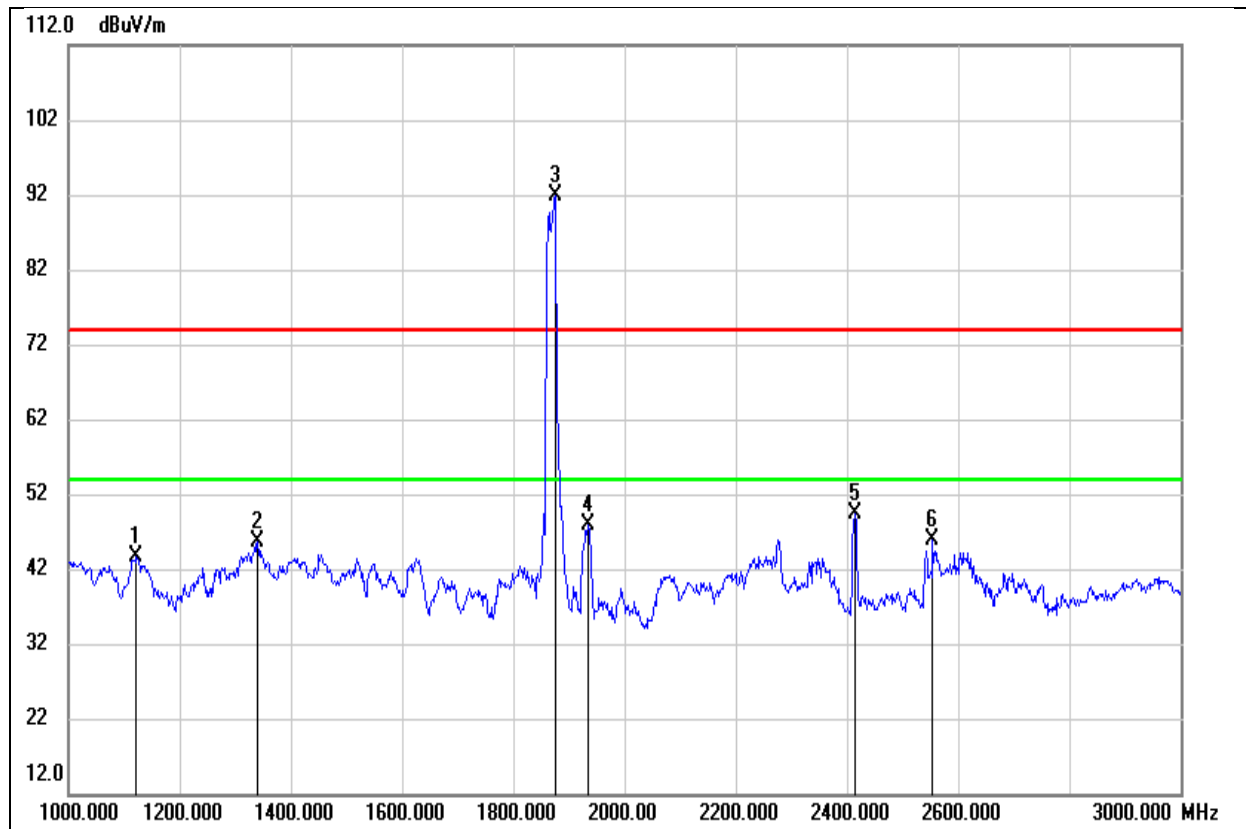
General note:

All possible combination is considered, only worst data reported.



Note:

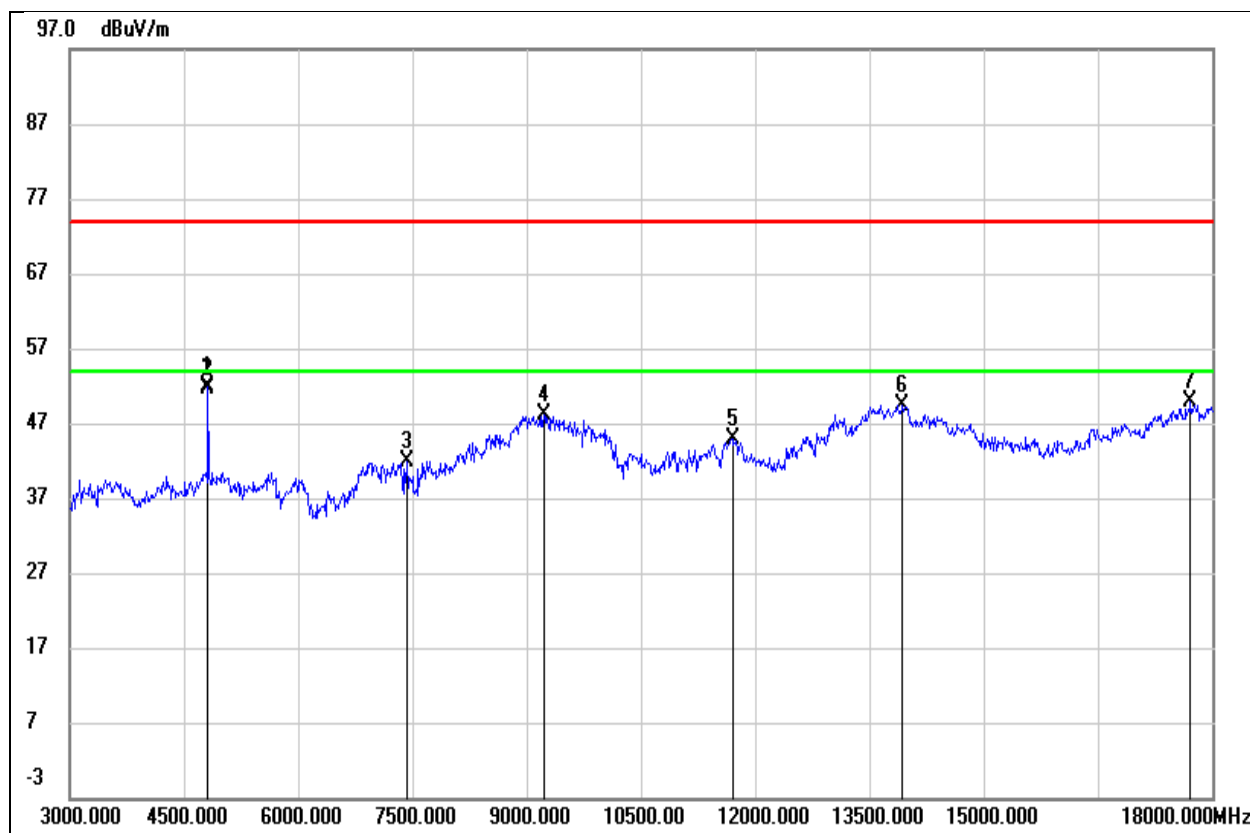
1. It is the fundamental carrier frequency.



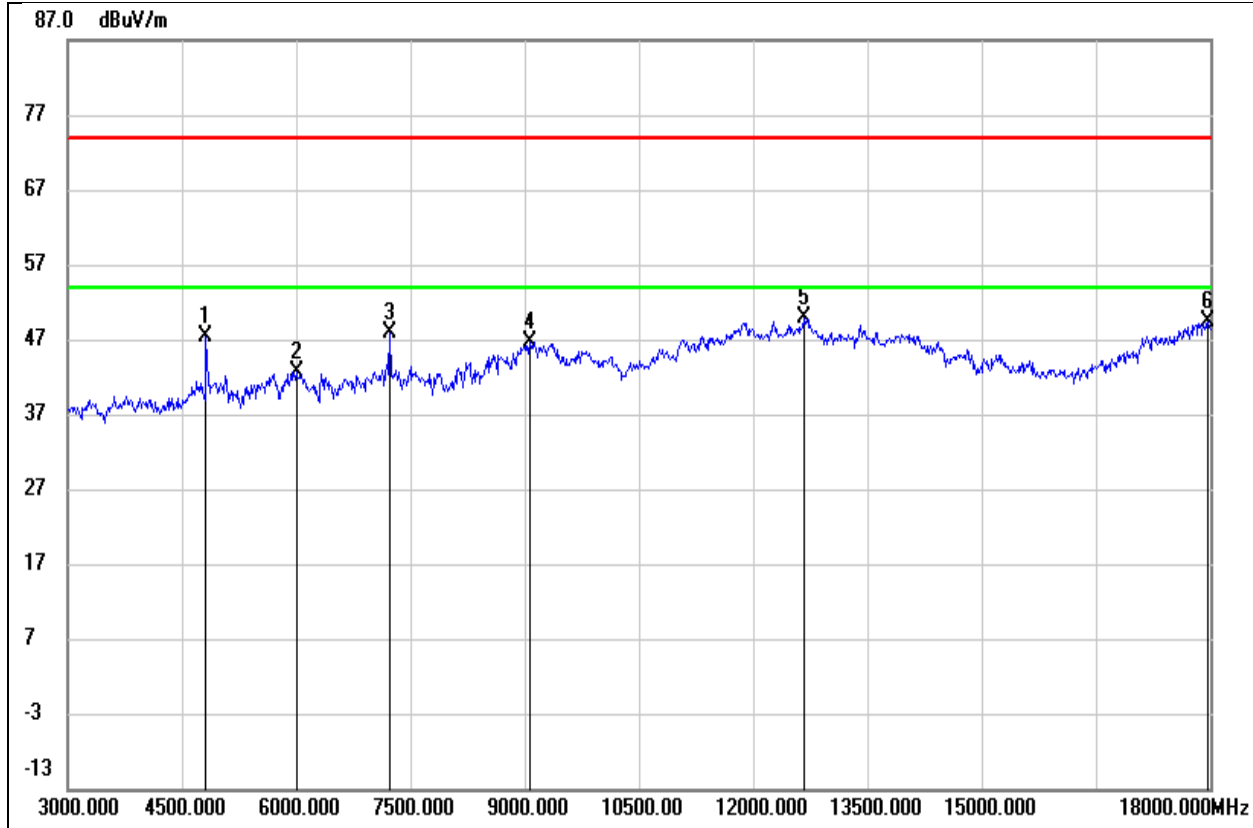
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1122.000	56.98	-13.34	43.64	74	-30.36	peak
2	1340.000	58.01	-12.48	45.53	74	-28.47	peak
3	1876.000	102.02	-10.19	91.83	\	\	Note 1
4	1934.000	57.93	-10.15	47.78	74	-26.22	peak
5	2414.000	56.70	-7.41	49.29	74	-24.71	peak
6	2554.000	53.37	-7.59	45.78	74	-28.22	peak

Note:

1. It is the fundamental carrier frequency.



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4815.000	51.26	0.65	51.91	74	-22.09	peak
2	4815.000	50.95	0.65	51.60	54	-2.40	AVG
3	7425.000	34.31	7.57	41.88	74	-32.12	peak
4	9225.000	37.99	10.17	48.16	74	-25.84	peak
5	11700.000	28.01	16.90	44.91	74	-29.09	peak
6	13935.000	26.86	22.59	49.45	74	-24.55	peak
7	17715.000	23.60	26.35	49.95	74	-24.05	peak



END OF REPORT