

**CFR 47 FCC PART 02
CFR 47 FCC PART 22 H
CFR 47 FCC PART 24 E
CFR 47 FCC PART 27**

TEST REPORT

For

Owly 1

MODEL NUMBER: SL01

REPORT NUMBER: 4792100569-1-RF-4

ISSUE DATE: March 19, 2026

FCC ID: 2BUZKSL01

Prepared for

**SafeOwl, Inc.
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Prepared by

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Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V0	August 12, 2025	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 > when < Simple Acceptance > decision rule is applied.

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: SafeOwl, Inc.
Address: 8350 N. Central Expwy #1150 Dallas, TX 75206

Manufacturer Information

Company Name: SafeOwl, Inc.
Address: 8350 N. Central Expwy #1150 Dallas, TX 75206

EUT Information

EUT Name: Owly 1
Model: SL01
Sample Received Date: February 9, 2026
Sample Status: Normal
Sample ID: 9427878
Date of Tested: February 10, 2026 to March 18, 2026

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

Prepared By:



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2. TEST METHODOLOGY

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

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.: C-20202, G-20240, R-20248 and T-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 E, the VCCI registration No. is G-20240 and R-20248 Shielding Room F, the VCCI registration No. is C-20202 and T-20202
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Note 1:

All tests measurement facilities use to collect the measurement data are located at Room 101, Building 2, No.4, Information Road, Songshan Lake, Dongguan, Guangdong, 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	Owly 1
Model	SL01

5.2. TEST CHANNEL CONFIGURATION

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

Band 12	Low Range	1.4	23017	699.7	5017	729.7
		3	23025	700.5	5025	730.5
		5	23035	701.5	5035	731.5
		10	23060	704	5060	734
	Mid Range	1.4/3/5 /10	23095	707.5	5095	737.5
	High Range	1.4	23173	715.3	5173	745.3
		3	23165	714.5	5165	744.5
		5	23155	713.5	5155	743.5
		10	23130	711	5130	741
Band 13	Low Range	5	23205	779.5	5205	748.5
		10	23230	782	5230	751
	Mid Range	5/10	23230	782	5230	751
	High Range	5	23255	784.5	5255	753.5
		10	23230	782	5230	751
Band 25	Low Range	1.4	26047	1850.7	8047	1930.7
		3	26055	1851.5	8055	1931.5
		5	26065	1852.5	8065	1932.5
		10	26090	1855	8090	1935
		15	26115	1857.5	8115	1937.5
		20	26140	1860	8140	1940
	Mid Range	1.4/3/5/10/15/20	26365	1882.5	8365	1962.5
	High Range	1.4	26683	1914.3	8683	1994.3
		3	26675	1913.5	8675	1993.5
		5	26665	1912.5	8665	1992.5
		10	26640	1910	8640	1990
		15	26615	1907.5	8615	1987.5
		20	26590	1905	8590	1985
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	1.4/3/5/10/15/20	132322	1745	66786	2145
	High Range	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
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

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

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

LTE Band 2							
Part 24							
EIRP Limit(W)		2.0					
Antenna Gain (dBi)		-5.61					
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1909.3	22.80	0.052	1.10	1M10D7W
	16QAM			22.00	0.044	1.09	1M09G7W
3	QPSK	1851.5	1908.5	22.66	0.051	2.71	2M71D7W
	16QAM			21.97	0.043	2.72	2M72G7W
5	QPSK	1852.5	1907.5	22.90	0.054	4.52	4M52D7W
	16QAM			21.98	0.043	4.51	4M51G7W
10	QPSK	1855.0	1905.0	22.86	0.053	9.00	9M00D7W
	16QAM			21.93	0.043	9.00	9M00G7W
15	QPSK	1857.5	1902.5	22.82	0.053	13.51	13M5D7W
	16QAM			21.99	0.043	13.50	13M5G7W
20	QPSK	1860.0	1900.0	22.76	0.052	18.12	18M1D7W
	16QAM			21.89	0.042	18.17	18M2G7W

LTE Band 4							
Part 27							
EIRP Limit(W)		1.0					
Antenna Gain (dBi)		-5.01					
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	22.98	0.063	1.10	1M10D7W
	16QAM			21.84	0.048	1.10	1M10G7W
3	QPSK	1711.5	1753.5	22.96	0.062	2.71	2M71D7W
	16QAM			21.97	0.050	2.71	2M71G7W
5	QPSK	1712.5	1752.5	22.99	0.063	4.52	4M52D7W
	16QAM			21.87	0.049	4.51	4M51G7W
10	QPSK	1715.0	1750.0	22.89	0.061	9.00	9M00D7W
	16QAM			21.92	0.049	8.99	8M99G7W
15	QPSK	1717.5	1747.5	23.00	0.063	13.51	13M5D7W
	16QAM			21.88	0.049	13.49	13M5G7W
20	QPSK	1720.0	1745.0	22.90	0.062	18.06	18M1D7W
	16QAM			21.86	0.048	18.04	18M0G7W

LTE Band 5							
Part 22							
ERP Limit(W)			7.0				
Antenna Gain (dBi)			-11.93				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	824.7	848.3	23.50	0.009	1.10	1M10G7W
	16QAM			22.44	0.007	1.11	1M11D7W
3	QPSK	825.5	847.5	23.38	0.009	2.72	2M72G7W
	16QAM			22.35	0.007	2.72	2M72D7W
5	QPSK	826.5	846.5	23.48	0.009	4.53	4M53G7W
	16QAM			22.47	0.007	4.52	4M52D7W
10	QPSK	829.0	844.0	23.43	0.009	9.01	9M01G7W
	16QAM			22.34	0.007	9.01	9M01D7W

LTE Band 12							
Part 27							
ERP Limit(W)			30				
Antenna Gain (dBi)			-10.24				
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	23.05	0.012	1.10	1M10D7W
	16QAM			22.18	0.010	1.11	1M11G7W
3	QPSK	700.5	714.5	23.02	0.012	2.72	2M72D7W
	16QAM			22.49	0.010	2.71	2M71G7W
5	QPSK	701.5	713.5	22.98	0.011	4.52	4M52D7W
	16QAM			22.45	0.010	4.51	4M51G7W
10	QPSK	704.0	711.0	23.01	0.012	8.99	8M99D7W
	16QAM			22.43	0.010	8.98	8M98G7W

LTE Band 13							
Part 27							
ERP Limit(W)			30				
Antenna Gain (dBi)			-10.41				
Bandwidth (MHz)	Modulation	Low Frequency (MHz)	Upper Frequency (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	779.5	784.5	23.28	0.012	4.51	4M51D7W
	16QAM			22.32	0.009	4.53	4M53G7W
10	QPSK	782.0	782.0	23.20	0.012	9.00	9M00D7W
	16QAM			22.24	0.009	9.00	9M00G7W

LTE Band 25							
Part 24							
EIRP Limit(W)			2.0				
Antenna Gain (dBi)			-5.61				
Bandwidth (MHz)	Modulation	Lower Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1850.7	1914.3	22.87	0.053	1.10	1M10D7W
	16QAM			22.76	0.052	1.10	1M10G7W
3	QPSK	1851.5	1913.5	22.88	0.053	2.71	2M71D7W
	16QAM			22.85	0.053	2.71	2M71G7W
5	QPSK	1852.5	1912.5	22.99	0.055	4.52	4M52D7W
	16QAM			22.78	0.052	4.51	4M51G7W
10	QPSK	1855.0	1910.0	22.89	0.053	9.01	9M01D7W
	16QAM			22.74	0.052	9.00	9M00G7W
15	QPSK	1857.5	1907.5	22.97	0.054	13.52	13M5D7W
	16QAM			22.83	0.053	13.52	13M5G7W
20	QPSK	1860.0	1905.0	22.95	0.054	18.11	18M1D7W
	16QAM			22.73	0.052	18.11	18M1G7W

LTE Band 66							
Part 27							
EIRP Limit(W)			1.0				
Antenna Gain (dBi)			-5.01				
Bandwidth (MHz)	Modulation	Lower Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dBm)	EIRP Average (W)	99% OBW (MHz)	Emission Designator
1.4	QPSK	1710.7	1779.3	22.91	0.062	1.10	1M10D7W
	16QAM			21.92	0.049	1.11	1M11G7W
3	QPSK	1711.5	1778.5	22.88	0.061	2.72	2M72D7W
	16QAM			21.79	0.048	2.71	2M71G7W
5	QPSK	1712.5	1777.5	22.83	0.061	4.52	4M52D7W
	16QAM			21.85	0.048	4.51	4M51G7W
10	QPSK	1715.0	1775.0	22.83	0.061	9.02	9M02D7W
	16QAM			21.84	0.048	9.01	9M01G7W
15	QPSK	1717.5	1772.5	22.84	0.061	13.47	13M5D7W
	16QAM			21.91	0.049	13.50	13M5G7W
20	QPSK	1720.0	1770.0	22.92	0.062	18.10	18M1D7W
	16QAM			21.93	0.049	18.18	18M2G7W

LTE Band 71							
Part 27							
ERP Limit(W)			3.0				
Antenna Gain (dBi)			-12.96				
Bandwidth (MHz)	Modulation	Lower Freq. (MHz)	Upper Freq. (MHz)	Conducted Average (dBm)	ERP Average (W)	99% OBW (MHz)	Emission Designator
5	QPSK	665.5	695.5	23.40	0.007	4.52	4M52D7W
	16QAM			22.44	0.005	4.51	4M51G7W
10	QPSK	668.0	693.0	23.40	0.007	8.99	8M99D7W
	16QAM			22.35	0.005	9.00	9M00G7W
15	QPSK	670.5	690.5	23.42	0.007	13.50	13M5D7W
	16QAM			22.41	0.005	13.48	13M5G7W
20	QPSK	673.0	688.0	23.28	0.007	18.10	18M1D7W
	16QAM			22.37	0.005	18.07	18M1G7W

5.4. WORST-CASE CONFIGURATION AND MODE

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

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

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

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

The EUT have three antennas and have the same antenna type. Three antennas relate to different Bands, only the worst-case antenna data record in this report. For more information of antenna data, please refer to antenna specification.

5.5. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Antenna Type	Remark
1	LDS	MAIN Antenna

Antenna	Band	Antenna Type	MAX Antenna Gain (dBi)
Main	LTE Band 2	LDS	-5.61
	LTE Band 4	LDS	-5.01
	LTE Band 5	LDS	-11.93
	LTE Band 12	LDS	-10.24
	LTE Band 13	LDS	-10.41
	LTE Band 25	LDS	-5.61
	LTE Band 66	LDS	-5.01
	LTE Band 71	LDS	-12.96

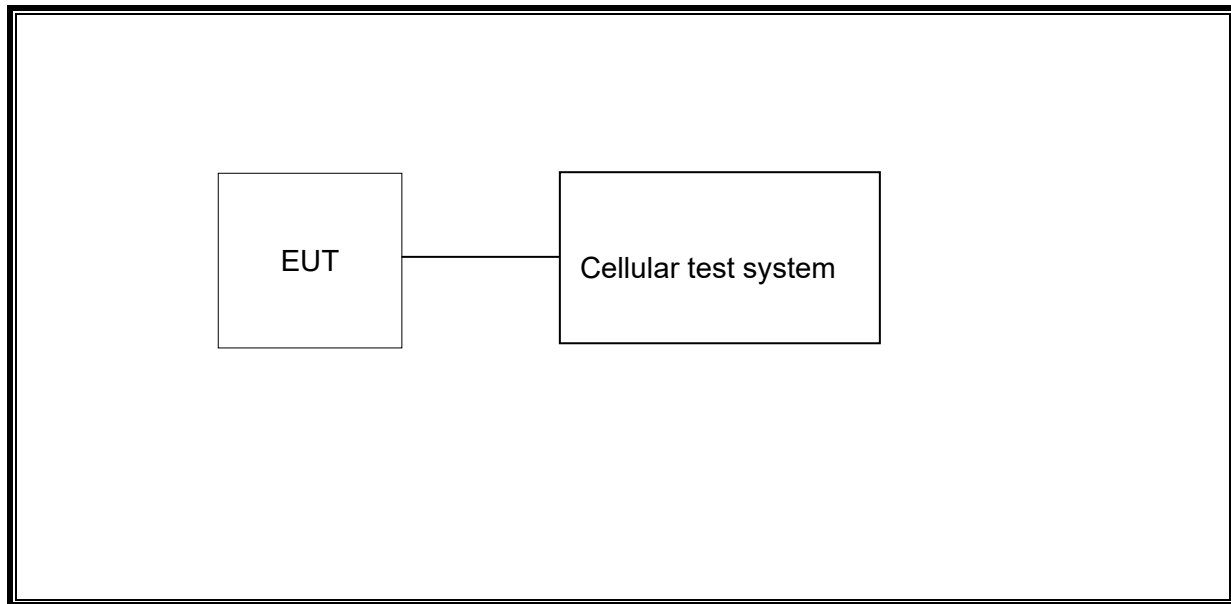
Note:

1. The value of the antenna gain was declared by customer.

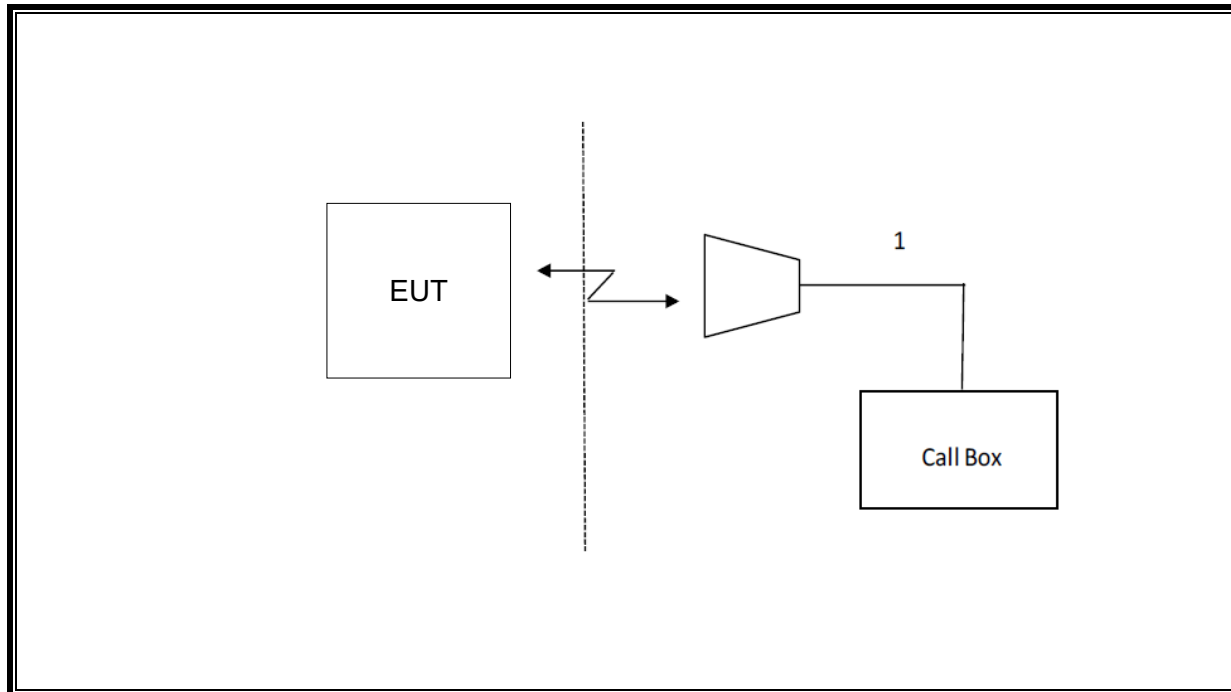
Band	Transmit and Receive Mode	Description
LTE Band 2	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna.
LTE Band 4	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna.
LTE Band 5	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna.
LTE Band 12	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna.
LTE Band 13	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna.
LTE Band 25	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna.
LTE Band 66	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna.
LTE Band 71	☒ 1TX, 1RX	Main antenna can be used as transmitting/receiving antenna.

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	FSW	1312.8000K26-103950-sj	Sep. 12, 2025	Sep. 11, 2026
☒	Wideband Radio Communication Tester	R&S	CMW500	155523	Sep. 12, 2025	Sep. 11, 2026
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	Sep. 12, 2025	Sep. 11, 2026
☒	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130959	June.28, 2024	June.27, 2027
☒	Preamplifier	HP	8447D	2944A09099	Sep. 12, 2025	Sep. 11, 2026
☒	EMI Measurement Receiver	R&S	ESR26	101377	Sep. 12, 2025	Sep. 11, 2026
☒	Horn Antenna	TDK	HRN-0118	130940	Dec. 12, 2024	Dec. 11, 2027
☒	Horn Antenna	Schwarzbeck	BBHA9170	697	Jun. 30, 2024	Jun. 29, 2027
☒	Preamplifier	TDK	PA-02-0118	TRS-305-00067	Sep. 12, 2025	Sep. 11, 2026
☒	Preamplifier	TDK	PA-02-2	TRS-307-00003	Sep. 12, 2025	Sep. 11, 2026
☒	Loop antenna	Schwarzbeck	1519B	00008	Dec.09, 2024	Dec.08,2027
☒	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Sep.12, 2025	Sep.11, 2026
Software						
Used	Description		Manufacturer	Name		Version
☒	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1

7. ANTENNA TERMINAL TEST RESULTS

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

7.1. EFFECTIVE (ISOTROPIC) RADIATED POWER OF TRANSMITTER

RULE PART(S)

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

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(b) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands and fixed stations transmitting in the 787-788 MHz and 805-806 MHz bands are limited to 30 watts ERP.

27.50(c) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

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.

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

TEST PROCEDURE

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

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

where:

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

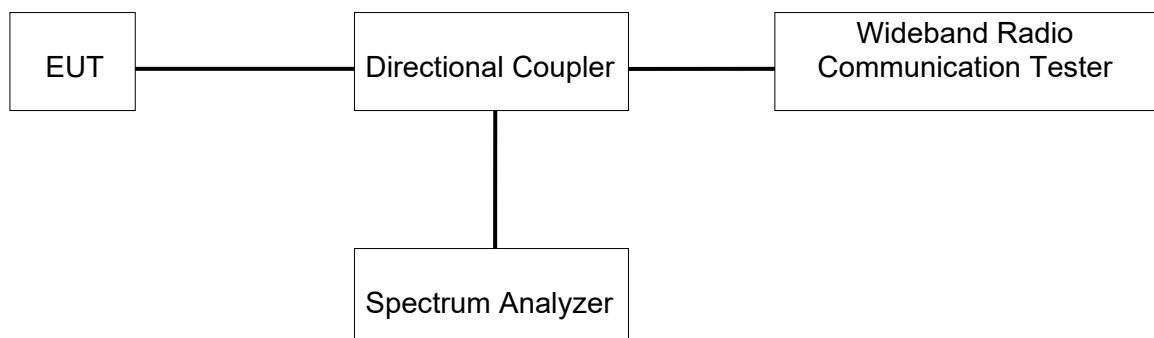
P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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

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

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

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.78 V

RESULT

7.1.1. LTE Band 2

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				18607	18900	19193
				Freq. (MHz)		
				1850.7	1880	1909.3
1.4	QPSK	1	0	22.49	22.47	22.53
		1	2	22.62	22.53	22.66
		1	5	22.69	22.80	22.55
		3	0	22.28	22.33	22.63
		3	1	22.52	22.64	22.77
		3	3	22.44	22.76	22.69
		6	0	21.19	21.32	21.82
	16QAM	1	0	21.52	21.47	21.50
		1	2	21.36	21.53	21.54
		1	5	21.40	21.39	21.68
		3	0	21.34	21.29	22.00
		3	1	21.12	20.77	21.14
		3	3	21.35	21.52	21.73
		6	0	20.54	20.67	20.71
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				18615	18900	19185
				Freq. (MHz)		
				1851.5	1880	1908.5
3	QPSK	1	0	22.36	22.36	22.59
		1	8	22.41	22.58	22.65
		1	14	22.41	22.66	22.59
		8	0	21.42	21.50	21.71
		8	4	21.31	21.48	21.70
		8	7	21.25	21.45	21.63
		15	0	21.38	21.63	21.52
	16QAM	1	0	21.39	21.40	21.97
		1	8	21.09	20.77	21.05
		1	14	21.25	21.60	21.70
		8	0	20.65	20.72	20.88
		8	4	20.29	20.54	20.92
		8	7	20.47	20.51	20.86
		15	0	20.35	20.53	20.70
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				18625	18900	19175
				Freq. (MHz)		
				1852.5	1880	1907.5
5	QPSK	1	0	22.51	22.41	22.77
		1	12	22.58	22.56	22.90
		1	24	22.42	22.58	22.59
		12	0	21.34	21.40	21.63
		12	6	21.49	21.43	21.58
		12	13	21.30	21.41	21.56

	16QAM	25	0	21.29	21.48	21.67
		1	0	21.23	21.57	21.90
		1	12	21.23	20.78	21.98
		1	24	21.48	21.68	21.72
		12	0	20.52	20.45	20.79
		12	6	20.37	20.66	20.88
		12	13	20.59	20.74	20.86
		25	0	20.50	20.78	20.69
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				18650	18900	19150
				Freq. (MHz)		
				1855	1880	1905
10	QPSK	1	0	22.39	22.47	22.57
		1	24	22.33	22.46	22.86
		1	49	22.7	22.7	22.67
		25	0	21.23	21.36	21.58
		25	12	21.39	21.48	21.7
		25	25	21.3	21.51	21.47
		50	0	21.34	21.67	21.49
	16QAM	1	0	21.18	21.36	21.01
		1	24	21.12	20.76	21.05
		1	49	21.35	21.55	21.93
		25	0	20.57	20.7	20.71
		25	12	20.36	20.6	20.89
		25	25	20.6	20.57	20.64
		50	0	20.48	20.66	20.83
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				18675	18900	19125
				Freq. (MHz)		
				1857.5	1880	1902.5
15	QPSK	1	0	22.33	22.38	22.61
		1	38	22.42	22.69	22.82
		1	74	22.53	22.55	22.5
		36	0	21.36	21.41	21.71
		36	18	21.51	21.67	21.58
		36	37	21.34	21.47	21.41
		75	0	21.36	21.68	21.65
	16QAM	1	0	21.21	21.58	21.75
		1	38	21.19	20.91	21.99
		1	74	21.34	21.61	21.96
		36	0	20.59	20.73	20.65
		36	18	20.55	20.5	20.91
		36	37	20.37	20.56	20.79
		75	0	20.36	20.74	20.82
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				18700	18900	19100
				Freq. (MHz)		
				1860	1880	1900
20	QPSK	1	0	22.4	22.48	22.63
		1	49	22.48	22.59	22.76
		1	99	22.55	22.66	22.57
		50	0	21.28	21.45	21.68
		50	25	21.41	21.55	21.63
		50	50	21.32	21.55	21.53
		100	0	21.4	21.54	21.57
	16QAM	1	0	21.33	21.44	21.89
		1	49	21.1	20.9	21.03
		1	99	21.39	21.59	21.83
		50	0	20.51	20.58	20.76

	50	25	20.41	20.57	20.78
	50	50	20.49	20.65	20.74
	100	0	20.41	20.67	20.72

7.1.2. LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel No.		
				19957	20175	20393
				Freq. (MHz)		
				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.69	22.87	22.75
		1	2	22.84	22.96	22.72
		1	5	22.94	22.89	22.86
		3	0	22.63	22.6	22.9
		3	1	22.96	22.88	22.69
		3	3	22.98	22.69	22.74
	16QAM	6	0	21.66	21.66	21.56
		1	0	21.73	21.61	21.54
		1	2	21.7	21.57	21.79
		1	5	21.74	21.64	21.56
		3	0	21.66	21.84	21.1
		3	1	21.12	21.39	21.25
		3	3	21.82	21.79	21.09
		6	0	20.83	20.71	20.9
Bandwidth	Modulation	RB size	RB offset	Channel No.		
				19965	20175	20385
				Freq. (MHz)		
				1711.5	1732.5	1753.5
3	QPSK	1	0	22.8	22.85	22.76
		1	8	22.86	22.74	22.96
		1	14	22.95	22.88	22.83
		8	0	21.58	21.58	21.53
		8	4	21.64	21.72	21.78
		8	7	21.66	21.48	21.66
	16QAM	15	0	21.65	21.83	21.57
		1	0	21.58	21.72	21.88
		1	8	21.33	21.41	21.25
		1	14	21.71	21.97	21.17
		8	0	20.59	20.72	20.73
		8	4	20.67	20.66	20.93
		8	7	20.7	20.02	20.95
		15	0	20.88	20.65	21
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				19975	20175	20375
				Freq. (MHz)		
				1712.5	1732.5	1752.5
5	QPSK	1	0	22.84	22.82	22.88
		1	12	22.69	22.83	22.68
		1	24	22.99	22.74	22.72
		12	0	21.47	21.74	21.7
		12	6	21.66	21.69	21.61
		12	13	21.76	21.54	21.59
		25	0	21.68	21.67	21.52
	16QAM	1	0	21.63	21.64	21.87
		1	12	21.29	21.37	21.31
		1	24	21.73	21.73	21.01
		12	0	20.65	20.87	20.67
		12	6	20.71	20.77	20.01
		12	13	20.8	21	20.03
		25	0	20.75	20.67	20.02
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				20000	20175	20350
				Freq. (MHz)		

				1715	1732.5	1750
10	QPSK	1	0	22.67	22.72	22.75
		1	24	22.71	22.86	22.89
		1	49	22.88	22.71	22.84
		25	0	21.46	21.56	21.74
		25	12	21.49	21.55	21.62
		25	25	21.57	21.46	21.81
		50	0	21.7	21.81	21.65
	16QAM	1	0	21.54	21.83	21.87
		1	24	21.14	21.51	21.15
		1	49	21.92	21.79	21.21
		25	0	20.82	20.88	20.88
		25	12	20.68	20.8	20.91
		25	25	20.73	20.76	20.77
		50	0	20.92	20.83	20.77
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				20025	20175	20325
				Freq. (MHz)		
				1717.5	1732.5	1747.5
15	QPSK	1	0	22.82	22.88	22.89
		1	38	22.71	22.83	22.75
		1	74	23	22.84	22.87
		36	0	21.43	21.79	21.65
		36	18	21.5	21.6	21.5
		36	37	21.66	21.41	21.81
		75	0	21.62	21.53	21.61
	16QAM	1	0	21.79	21.67	21.88
		1	38	21.23	21.41	21.3
		1	74	21.78	21.76	21.22
		36	0	20.61	21	20.8
		36	18	20.94	20.85	20.88
		36	37	20.73	20.84	20.95
		75	0	20.66	20.77	20.53
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				20050	20175	20300
				Freq. (MHz)		
				1720	1732.5	1745
20	QPSK	1	0	22.69	22.74	22.79
		1	49	22.83	22.89	22.82
		1	99	22.9	22.83	22.85
		50	0	21.54	21.69	21.63
		50	25	21.64	21.67	21.63
		50	50	21.61	21.55	21.73
		100	0	21.61	21.68	21.67
	16QAM	1	0	21.66	21.72	21.51
		1	49	21.27	21.36	21.69
		1	99	21.86	21.86	21.62
		50	0	20.7	20.87	20.78
		50	25	20.8	20.78	20.89
		50	50	20.83	20.87	20.92
		100	0	20.8	20.71	20.9

7.1.3. LTE Band 5

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				20407	20525	20643
				Freq. (MHz)		
				824.7	836.5	848.3
1.4	QPSK	1	0	23.21	22.96	23.02
		1	2	23.5	23.26	23.07
		1	5	23.2	22.97	22.78
		3	0	23.05	23.06	22.86
		3	1	23.5	23.36	23.07
		3	3	23.17	22.79	22.85
		6	0	22.39	22.31	21.79
	16QAM	1	0	22.29	22.28	21.79
		1	2	22.35	22.09	22.15
		1	5	22.12	22.06	22.44
		3	0	22.1	22.19	21.72
		3	1	22.13	22.05	22.1
		3	3	22.06	22.15	22.33
		6	0	21.39	21.12	20.88
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				20415	20525	20635
				Freq. (MHz)		
				825.5	836.5	847.5
3	QPSK	1	0	22.97	22.93	22.87
		1	8	23.38	23.32	23.26
		1	14	23.19	22.96	23.01
		8	0	22.36	22.22	21.94
		8	4	22.18	22.25	22.21
		8	7	22.18	22.14	22.33
		15	0	22.16	21.97	21.96
	16QAM	1	0	22.35	22.25	22.2
		1	8	22.16	21.99	22.09
		1	14	22.19	21.98	22.25
		8	0	21.53	21.22	20.94
		8	4	21.36	21.46	21.04
		8	7	21.29	21.25	21.53
		15	0	21.47	21.62	21.25
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				20425	20525	20625
				Freq. (MHz)		
				826.5	836.5	846.5
5	QPSK	1	0	23.19	23.07	23.11
		1	12	23.48	23.29	23.34
		1	24	23.12	23.01	22.83
		12	0	22.35	22.3	21.75
		12	6	22.16	22.1	22.29
		12	13	22.28	22.11	22.37
		25	0	22.05	22.13	21.94
	16QAM	1	0	22.25	22.23	22.23
		1	12	22.14	22.11	22.03
		1	24	22.27	21.95	22.47
		12	0	21.31	21.26	20.9
		12	6	21.21	21.57	20.89
		12	13	21.26	21.1	21.58
		25	0	21.39	21.43	21.3
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				20450	20525	20600
				Freq. (MHz)		

				829	836.5	844
10	QPSK	1	0	23.09	23	22.98
		1	24	23.43	23.3	23.19
		1	49	23.08	22.94	22.88
		25	0	22.25	22.22	21.87
		25	12	22.25	22.16	22.16
		25	25	22.17	22.12	22.35
		50	0	22.1	22.06	21.98
	16QAM	1	0	22.2	22.21	22.21
		1	24	22.09	22.11	22
		1	49	22.13	22.06	22.34
		25	0	21.42	21.15	20.96
		25	12	21.27	21.46	20.98
		25	25	21.41	21.19	21.5
		50	0	21.33	21.51	21.15

7.1.4. LTE Band 12

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				23017	23095	23173
				Freq. (MHz)		
				699.7	707.5	715.3
1.4	QPSK	1	0	22.87	22.65	22.91
		1	2	22.82	22.91	23.05
		1	5	22.88	22.76	22.93
		3	0	22.74	22.65	22.7
		3	1	22.81	22.89	22.9
		3	3	22.88	22.7	22.92
		6	0	21.78	21.82	22.14
	16QAM	1	0	21.56	21.81	22.04
		1	2	21.92	22.03	21.83
		1	5	21.94	22.12	21.81
		3	0	21.58	22.03	22.18
		3	1	22.11	21.95	22.01
		3	3	21.92	22	22.06
		6	0	20.84	21.26	20.92
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				23025	23095	23165
				Freq. (MHz)		
				700.5	707.5	714.5
3	QPSK	1	0	22.96	22.83	22.78
		1	8	22.85	23.02	22.96
		1	14	22.89	22.84	22.9
		8	0	21.61	21.81	21.92
		8	4	21.96	22.02	21.83
		8	7	21.92	22.1	21.89
		15	0	22.01	22.01	21.81
	16QAM	1	0	22.46	21.97	22.06
		1	8	22.46	22.08	22.34
		1	14	22.49	21.87	22.09
		8	0	20.93	21.47	20.74
		8	4	21.21	20.71	20.96
		8	7	21.29	21.08	20.98
		15	0	21.13	20.82	20.86
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				23035	23095	23155
				Freq. (MHz)		
				701.5	707.5	713.5
5	QPSK	1	0	22.71	22.82	22.85
		1	12	22.94	22.98	22.87
		1	24	22.85	22.75	22.87
		12	0	21.66	21.93	21.9
		12	6	22.06	22.05	21.89
		12	13	21.85	22.03	21.94
		25	0	21.98	21.92	21.99
	16QAM	1	0	22.16	21.98	22.03
		1	12	22.05	22.45	22.2
		1	24	21.97	22.1	21.88
		12	0	20.99	21.42	20.92
		12	6	21.16	20.86	20.88
		12	13	21.38	20.94	21.11
		25	0	21.11	20.97	20.79
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				23060	23095	23130
				Freq. (MHz)		

				704	707.5	711
10	QPSK	1	0	22.82	22.72	22.82
		1	24	22.92	23.01	23.01
		1	49	22.84	22.82	22.78
		25	0	21.69	21.94	22.05
		25	12	22.01	21.9	21.89
		25	25	21.84	22.04	21.96
		50	0	22.05	21.88	21.87
	16QAM	1	0	22.42	22.02	21.96
		1	24	22.35	22.43	22.36
		1	49	22.34	21.96	21.97
		25	0	20.89	21.37	20.81
		25	12	21.12	20.75	20.82
		25	25	21.43	20.97	21
		50	0	21	20.89	20.93

7.1.5. LTE Band 13

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				23205	23230	23255
				Freq. (MHz)	Freq. (MHz)	Freq. (MHz)
				779.50	782.00	784.50
5	QPSK	1	0	22.7	22.73	22.9
		1	12	22.87	23.14	23.16
		1	24	23.28	23.28	23.13
		12	0	21.82	21.94	21.98
		12	6	21.88	22.15	22.05
		12	13	21.99	21.96	22.14
		25	0	22.15	21.92	21.98
	16QAM	1	0	21.84	21.88	21.87
		1	12	22.23	22.25	22.32
		1	24	21.97	22.13	22.07
		12	0	20.99	20.95	21.03
		12	6	21.17	21.33	21.23
		12	13	21.33	21.33	21.44
		25	0	21.38	21.41	21.29
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.	Channel No.	Channel No.
				N/A	23230	N/A
				Freq. (MHz)	Freq. (MHz)	Freq. (MHz)
				N/A	782.00	N/A
10	QPSK	1	0	N/A	22.81	N/A
		1	24	N/A	23.02	N/A
		1	49	N/A	23.2	N/A
		25	0	N/A	21.94	N/A
		25	12	N/A	22.02	N/A
		25	25	N/A	22.09	N/A
		50	0	N/A	22.02	N/A
	16QAM	1	0	N/A	21.81	N/A
		1	24	N/A	22.24	N/A
		1	49	N/A	22.03	N/A
		25	0	N/A	21.09	N/A
		25	12	N/A	21.32	N/A
		25	25	N/A	21.33	N/A
		50	0	N/A	21.31	N/A

7.1.6. LTE Band 25

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				26047	26365	26683
				Freq. (MHz)		
				1850.7	1882.5	1914.3
1.4	QPSK	1	0	22.56	22.57	22.85
		1	2	22.74	22.76	22.87
		1	5	22.62	22.79	22.55
		3	0	22.55	22.73	22.77
		3	1	22.63	22.83	22.83
		3	3	22.61	22.74	22.82
		6	0	22.56	21.76	21.53
	16QAM	1	0	22.54	21.46	21.59
		1	2	22.52	21.82	21.74
		1	5	22.54	21.62	21.62
		3	0	22.48	21.44	21.81
		3	1	22.7	21.1	22.03
		3	3	22.76	21.61	21.82
		6	0	22.67	21.81	21.88
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				26055	26365	26675
				Freq. (MHz)		
				1851.5	1882.5	1913.5
3	QPSK	1	0	22.67	22.52	22.88
		1	8	22.73	22.66	22.86
		1	14	22.71	22.78	22.67
		8	0	22.59	21.74	21.57
		8	4	22.68	21.74	21.69
		8	7	22.57	21.91	21.48
		15	0	22.6	21.52	21.56
	16QAM	1	0	22.68	21.65	22.04
		1	8	22.44	21.15	21.98
		1	14	22.77	21.5	21.96
		8	0	22.54	21.69	21.19
		8	4	22.85	21.84	21.83
		8	7	22.78	21.03	21.69
		15	0	22.66	21.86	21.68
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				26065	26365	26665
				Freq. (MHz)		
				1852.5	1882.5	1912.5
5	QPSK	1	0	22.64	22.6	22.74
		1	12	22.71	22.58	22.99
		1	24	22.75	22.74	22.57
		12	0	22.7	21.72	21.59
		12	6	22.45	21.56	21.52
		12	13	22.69	21.78	21.69
		25	0	22.68	21.56	21.58
	16QAM	1	0	22.76	21.65	22.01
		1	12	22.72	21.12	22.18
		1	24	22.78	21.4	21.77
		12	0	22.72	21.63	21.64
		12	6	22.65	21.71	21.65
		12	13	22.7	21.87	21.74
		25	0	22.68	21.57	21.64
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				26090	26365	26640
				Freq. (MHz)		

				1855	1882.5	1910
10	QPSK	1	0	22.57	22.62	22.71
		1	24	22.49	22.76	22.89
		1	49	22.79	22.7	22.67
		25	0	22.52	21.69	21.63
		25	12	22.52	21.59	21.73
		25	25	22.61	21.91	21.61
		50	0	22.66	21.61	21.79
	16QAM	1	0	22.62	21.48	22.05
		1	24	22.57	21.28	21.98
		1	49	22.7	21.55	21.94
		25	0	22.74	21.71	21.86
		25	12	22.63	21.88	21.74
		25	25	22.66	21.78	21.67
		50	0	22.65	21.59	21.68
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				26115	26365	26615
				Freq. (MHz)		
				1857.5	1882.5	1907.5
15	QPSK	1	0	22.55	22.52	22.65
		1	38	22.64	22.71	22.97
		1	74	22.53	22.88	22.54
		36	0	22.48	21.79	21.57
		36	18	22.45	21.57	21.61
		36	37	22.63	21.78	21.47
		75	0	22.52	21.63	21.51
	16QAM	1	0	22.48	21.36	22.07
		1	38	22.71	21.05	22.24
		1	74	22.76	21.34	21.77
		36	0	22.5	21.6	21.68
		36	18	22.71	21.85	21.82
		36	37	22.83	21.97	21.71
		75	0	22.66	21.86	21.78
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				26140	26365	26590
				Freq. (MHz)		
				1860	1882.5	1905
20	QPSK	1	0	22.56	22.63	22.75
		1	49	22.62	22.71	22.95
		1	99	22.66	22.85	22.68
		50	0	22.63	21.68	21.64
		50	25	22.59	21.61	21.64
		50	50	22.67	21.81	21.59
		100	0	22.67	21.52	21.66
	16QAM	1	0	22.61	21.51	21.94
		1	49	22.57	21.18	22.12
		1	99	22.63	21.46	21.82
		50	0	22.63	21.71	21.75
		50	25	22.73	21.85	21.79
		50	50	22.69	21.88	21.75
		100	0	22.65	21.72	21.73

7.1.7. LTE Band 66

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				131979	132322	132665
				Freq. (MHz)		
				1710.7	1745	1779.3
1.4	QPSK	1	0	22.67	22.69	22.6
		1	2	22.74	22.84	22.91
		1	5	22.62	22.57	22.53
		3	0	22.54	22.63	22.75
		3	1	22.79	22.89	22.82
		3	3	22.81	22.83	22.45
		6	0	21.33	21.45	21.71
	16QAM	1	0	21.53	21.43	21.7
		1	2	21.58	21.52	21.55
		1	5	21.41	21.64	21.52
		3	0	21.32	21.01	21.52
		3	1	21.29	21.08	21.69
		3	3	21.68	21.09	21.92
		6	0	20.5	20.73	20.91
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				131987	132322	132657
				Freq. (MHz)		
				1711.5	1745	1778.5
3	QPSK	1	0	22.56	22.7	22.82
		1	8	22.62	22.68	22.88
		1	14	22.65	22.83	22.55
		8	0	21.5	21.56	21.79
		8	4	21.58	21.43	21.61
		8	7	21.58	21.62	21.44
		15	0	21.42	21.5	21.45
	16QAM	1	0	21.46	21.09	21.51
		1	8	21.38	20.82	21.6
		1	14	21.56	21.23	21.79
		8	0	20.56	20.61	20.87
		8	4	20.54	20.53	20.73
		8	7	20.68	20.78	20.84
		15	0	20.73	20.65	20.69
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				131997	132322	132647
				Freq. (MHz)		
				1712.5	1745	1777.5
5	QPSK	1	0	22.42	22.5	22.72
		1	12	22.79	22.62	22.82
		1	24	22.83	22.62	22.46
		12	0	21.46	21.63	21.72
		12	6	21.46	21.38	21.51
		12	13	21.64	21.46	21.44
		25	0	21.57	21.46	21.71
	16QAM	1	0	21.27	20.95	21.58
		1	12	21.48	20.97	21.74
		1	24	21.6	21.16	21.85
		12	0	20.72	20.58	20.94
		12	6	20.55	20.69	20.89
		12	13	20.9	20.62	20.62
		25	0	20.62	20.56	20.81
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				132022	132322	132622
				Freq. (MHz)		

				1715	1745	1775
10	QPSK	1	0	22.59	22.72	22.8
		1	24	22.68	22.79	22.83
		1	49	22.68	22.6	22.62
		25	0	21.37	21.66	21.81
		25	12	21.66	21.5	21.51
		25	25	21.61	21.64	21.45
		50	0	21.53	21.46	21.63
	16QAM	1	0	21.51	20.79	21.84
		1	24	21.22	20.85	21.69
		1	49	21.73	21.14	21.67
		25	0	20.69	20.52	20.77
		25	12	20.46	20.46	20.7
		25	25	20.89	20.66	20.76
		50	0	20.74	20.74	20.76
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				132047	132322	132597
				Freq. (MHz)		
				1717.5	1745	1772.5
15	QPSK	1	0	22.45	22.7	22.66
		1	38	22.77	22.68	22.84
		1	74	22.75	22.81	22.49
		36	0	21.27	21.49	21.79
		36	18	21.66	21.47	21.5
		36	37	21.63	21.65	21.61
		75	0	21.38	21.4	21.59
	16QAM	1	0	21.39	20.96	21.53
		1	38	21.24	21	21.69
		1	74	21.46	20.97	21.91
		36	0	20.79	20.77	20.87
		36	18	20.56	20.7	20.73
		36	37	20.91	20.74	20.68
		75	0	20.55	20.64	20.61
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				132072	132322	132572
				Freq. (MHz)		
				1720	1745	1770
20	QPSK	1	0	22.53	22.65	22.68
		1	49	22.7	22.76	22.92
		1	99	22.71	22.72	22.56
		50	0	21.39	21.51	21.67
		50	25	21.57	21.47	21.57
		50	50	21.5	21.53	21.55
		100	0	21.49	21.53	21.6
	16QAM	1	0	21.39	20.94	21.93
		1	49	21.37	20.96	21.65
		1	99	21.61	21.09	21.81
		50	0	20.67	20.63	20.81
		50	25	20.59	20.61	20.83
		50	50	20.79	20.71	20.69
		100	0	20.66	20.65	20.76

7.1.8. LTE Band 71

Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				133147	133297	133447
				Freq. (MHz)		
				665.5	680.5	695.5
5	QPSK	1	0	23	23.4	23.1
		1	12	23.21	23.04	23.25
		1	24	23.28	23.1	23.19
		12	0	22.05	22.06	22.03
		12	6	21.96	22.18	21.95
		12	13	22.24	21.71	22.12
	16QAM	25	0	21.87	22.15	21.82
		1	0	22.05	21.71	22.44
		1	12	22.31	22.05	22.12
		1	24	22.3	21.81	22.32
		12	0	21.31	20.97	21.41
		12	6	21.15	21.01	21.27
		12	13	21.17	21.15	21.15
		25	0	20.93	20.98	21.3
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				133172	133297	133422
				Freq. (MHz)		
				668	680.5	693
10	QPSK	1	0	22.8	23.1	22.95
		1	24	23.4	23.15	23.15
		1	49	23.19	23.13	23.18
		25	0	22.05	21.96	21.87
		25	12	21.97	21.96	21.94
		25	25	21.98	21.94	22.12
	16QAM	50	0	22.07	22.11	21.92
		1	0	22.02	21.77	22.29
		1	24	22.27	22.23	21.94
		1	49	22.23	21.86	22.35
		25	0	21.2	21.19	21.25
		25	12	21.08	21.02	21.39
		25	25	21.04	21.43	21.15
		50	0	20.96	20.94	21.19
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				133197	133297	133397
				Freq. (MHz)		
				670.5	680.5	690.5
15	QPSK	1	0	22.85	23.38	23.12
		1	38	23.42	23.07	23.06
		1	74	23.31	23.27	22.98
		36	0	22.01	21.88	21.8
		36	18	22.08	22.02	21.86
		36	37	22.18	21.71	22.04
	16QAM	75	0	22	21.95	21.87
		1	0	22.02	21.73	22.41
		1	38	22.22	22.01	21.93
		1	74	22.32	21.72	22.32
		36	0	21.26	21.19	21.27
		36	18	21.21	20.99	21.43
		36	37	21.11	21.16	21.15
		75	0	21.01	21.01	21.21
Bandwidth (MHz)	Modulation	RB size	RB offset	Channel No.		
				133222	133322	133372
				Freq. (MHz)		
				673	683	688
20	QPSK	1	0	22.88	23.25	23.01
		1	49	23.28	23.19	23.16

		1	99	23.17	23.25	23.09
		50	0	21.97	22.02	21.95
		50	25	21.97	22.05	22.01
		50	50	22.12	21.85	22.11
		100	0	21.98	22.03	21.83
	16QAM	1	0	21.95	21.74	22.34
		1	49	22.37	22.11	22.02
		1	99	22.19	21.79	22.27
		50	0	21.23	21.12	21.37
		50	25	21.1	20.99	21.28
		50	50	21.07	21.3	21.3
		100	0	21.05	21.04	21.28

7.2. PEAK TO AVERAGE RADIO

LIMITS

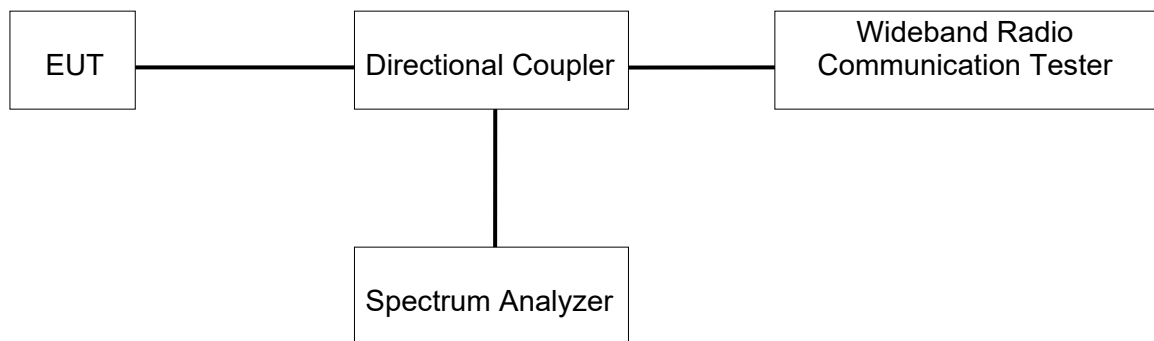
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

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	23.2°C	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.78 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

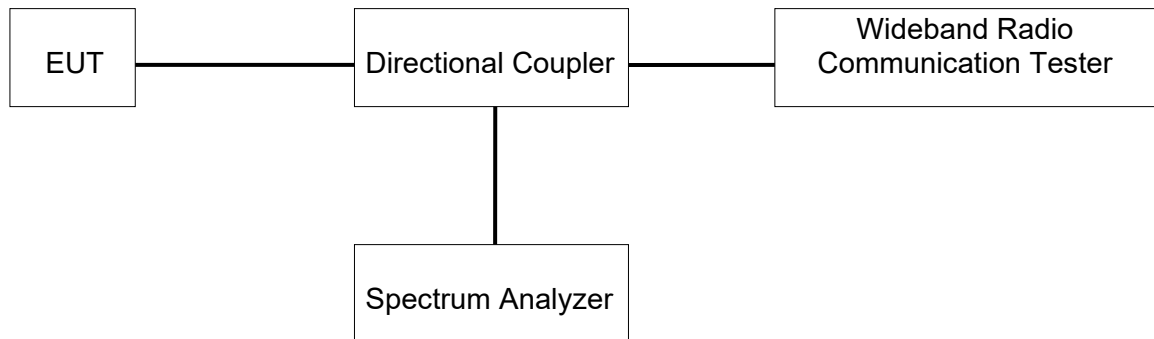
For reporting purposes only.

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	23.2°C	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.78 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.

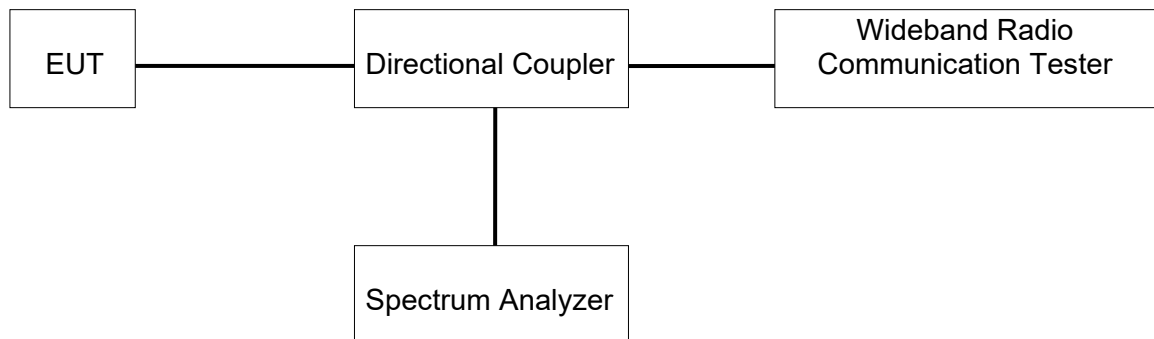
TEST PROCEDURE

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.

- Set the RBW = 1 ~ 5 % of OBW (Typically limited to a minimum RBW of 1% of the OBW)
- Set VBW $\geq 3 \times$ RBW;
- Set span ≥ 1.5 times the OBW;
- Sweep time = Auto;
- Detector = RMS;
- Ensure that the number of measurement points $\geq 2 \times$ Span/RBW;
- Trace mode = Average (100);

TEST SETUP



TEST ENVIRONMENT

Temperature	23.2°C	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.78 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.

FCC: §27.53

Limit for Band 4/66

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.

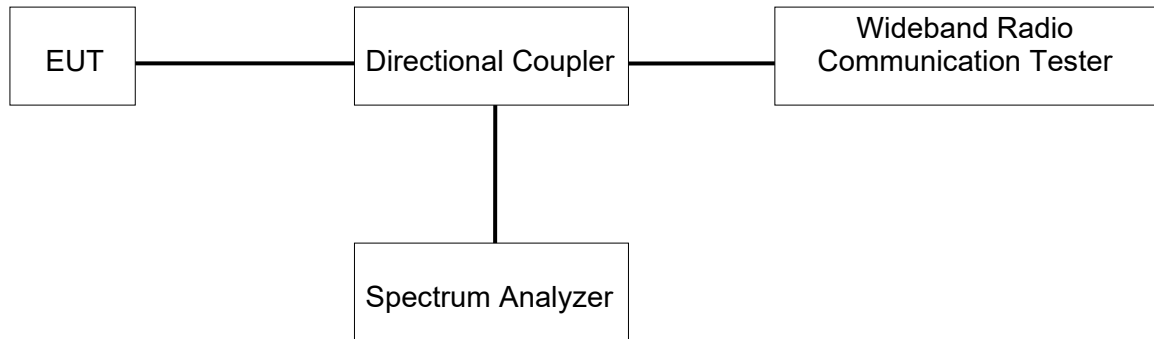
TEST PROCEDURE

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	23.2°C	Relative Humidity	55.7%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.78 V

RESULTS

Please refer to Appendix LTE.

7.6. FREQUENCY STABILITY

RULE PART(S)

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.

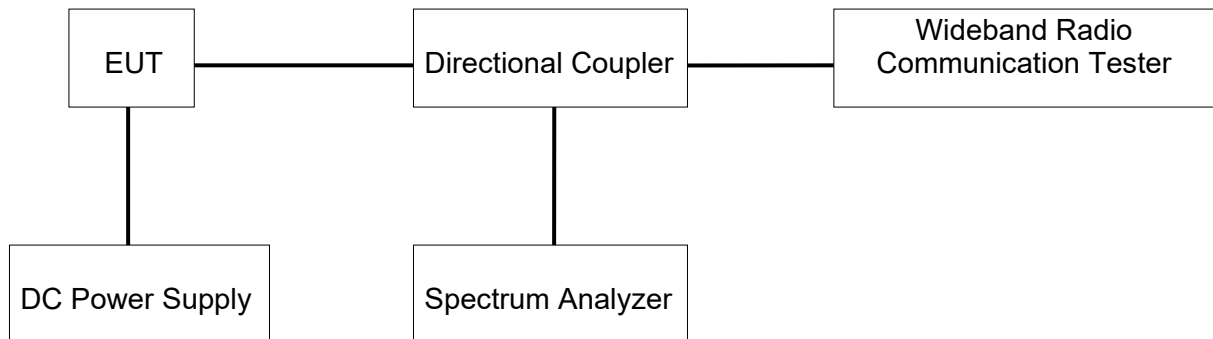
§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

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 3.78V	V_L (Low Voltage): DC 3.45V
		V_H (High Voltage): DC 4.45V

TEST SETUP



RESULTS

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

Please refer to Appendix LTE.

8. RADIATED SPURIOUS EMISSIONS

RULE PART(S)

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

LIMIT

FCC: §27.53 (g) LTE (B12)

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/B25)

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)

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) (B4)

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) (B66)

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 (g) (B71)

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

According to the C 63.26-2015 section 5.5.2.2.3

Below 1GHz test procedure as below:

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

Above 1GHz test procedure as below:

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The height scan of the measurement antenna shall be varied from 1 m to 4 m in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When using the direct field strength method and the EUT is manipulated through three different orientations, then the scan height range of the measurement antenna is limited to 2.5 m, or 0.5 m above the top of the EUT, whichever is higher.

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

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
 - b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
 - c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
 - d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- So, from d)
- The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$
- Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

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

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$
$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$
$$= -13\text{dBm}.$$

$$\begin{aligned}\text{EIRP[dBm]} &= E[\text{dB}\mu\text{V/m}] - 95.25 \\ E[\text{dB}\mu\text{V/m}] &= 95.25 + \text{EIRP[dBm]} \\ E[\text{dB}\mu\text{V/m}] &= 82.25\end{aligned}$$

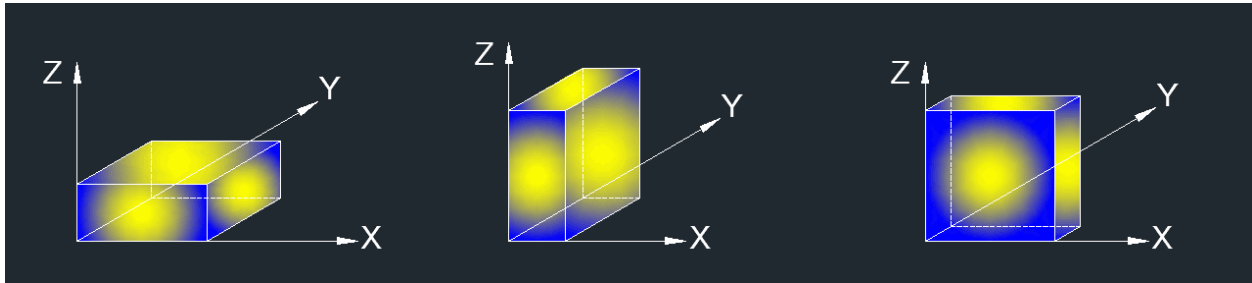
NOTE 1: Radiated spurious emissions were investigated below 30 MHz, 30 MHz – 1 GHz and above 1 GHz. There were no emissions found on below 30 MHz and 30 MHz – 1 GHz. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

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

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

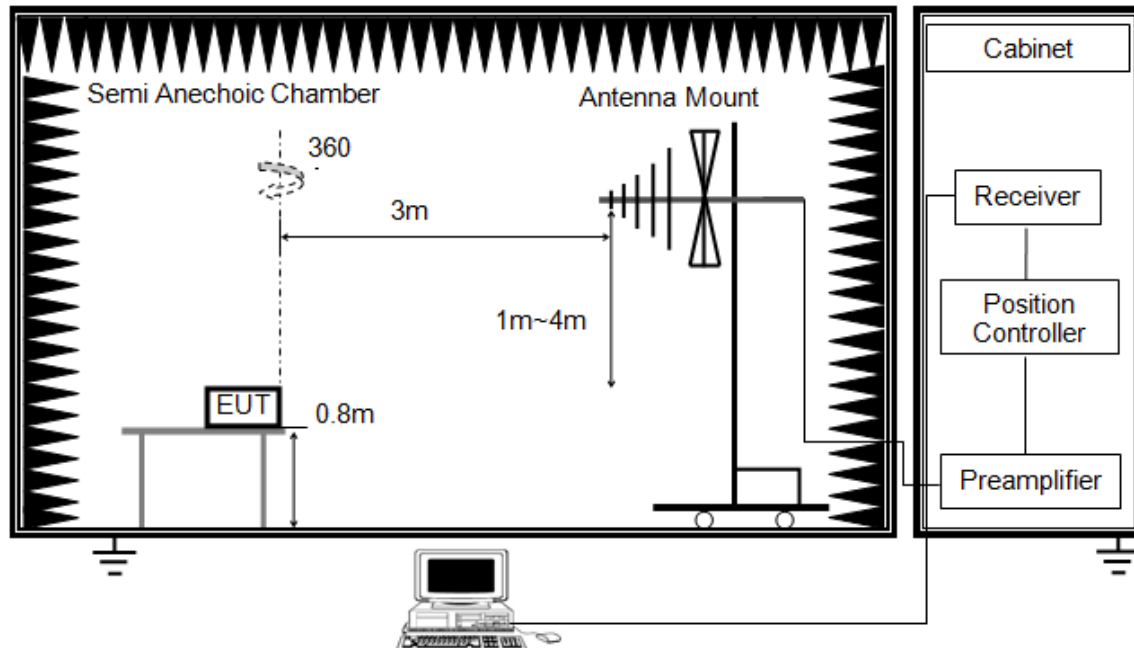
Note 4: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

X axis, Y axis, Z axis positions:

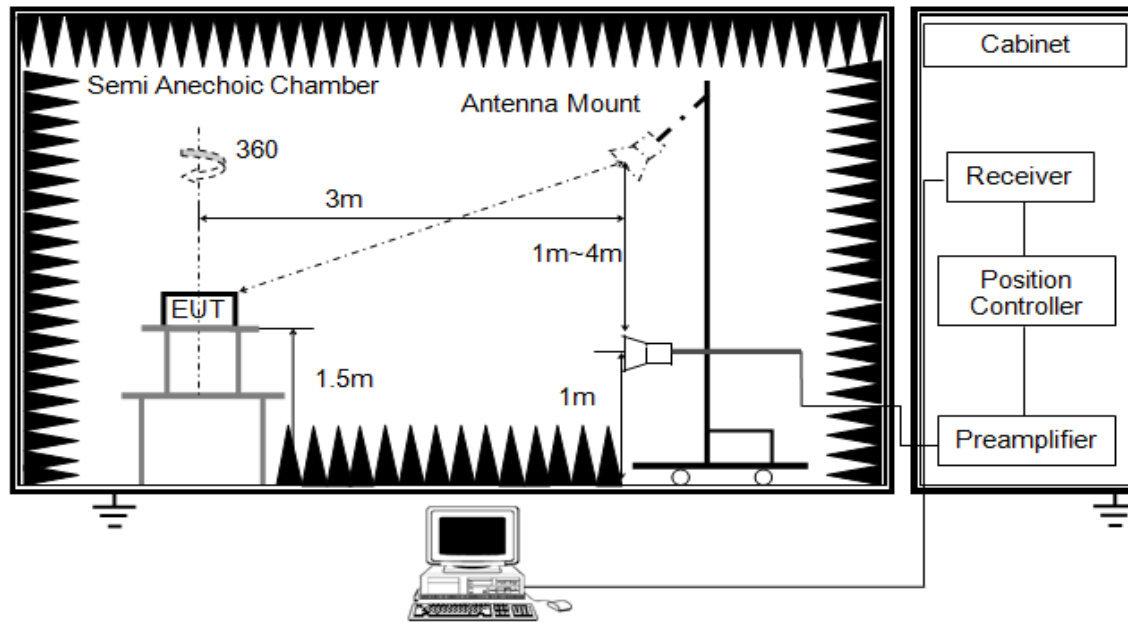


TEST SETUP

Test Setup for Below 1 GHz



Test Setup for Above 1 GHz



TEST ENVIRONMENT

Temperature	20.8°C	Relative Humidity	57.6%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.78V

RESULTS

8.1. 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	3240.000	43.72	-4.41	39.31	82.25	-42.94	peak
2	5370.000	40.57	1.51	42.08	82.25	-40.17	peak
3	7950.000	38.77	7.84	46.61	82.25	-35.64	peak
4	10590.000	34.94	14.27	49.21	82.25	-33.04	peak
5	13995.000	25.42	24.04	49.46	82.25	-32.79	peak
6	17940.000	22.99	27.61	50.60	82.25	-31.65	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	5520.000	41.34	1.76	43.10	82.25	-39.15	peak
2	6645.000	39.04	4.88	43.92	82.25	-38.33	peak
3	9510.000	36.00	11.09	47.09	82.25	-35.16	peak
4	10665.000	34.79	14.49	49.28	82.25	-32.97	peak
5	13635.000	25.98	22.84	48.82	82.25	-33.43	peak
6	17985.000	22.17	27.88	50.05	82.25	-32.20	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	41.92	-0.18	41.74	82.25	-40.51	peak
2	6630.000	39.16	4.83	43.99	82.25	-38.26	peak
3	9180.000	36.56	10.03	46.59	82.25	-35.66	peak
4	12555.000	30.63	19.20	49.83	82.25	-32.42	peak
5	13950.000	26.31	23.87	50.18	82.25	-32.07	peak
6	17925.000	22.73	27.50	50.23	82.25	-32.02	peak

QPSK-20 MHz- Mid Channel-Vertical

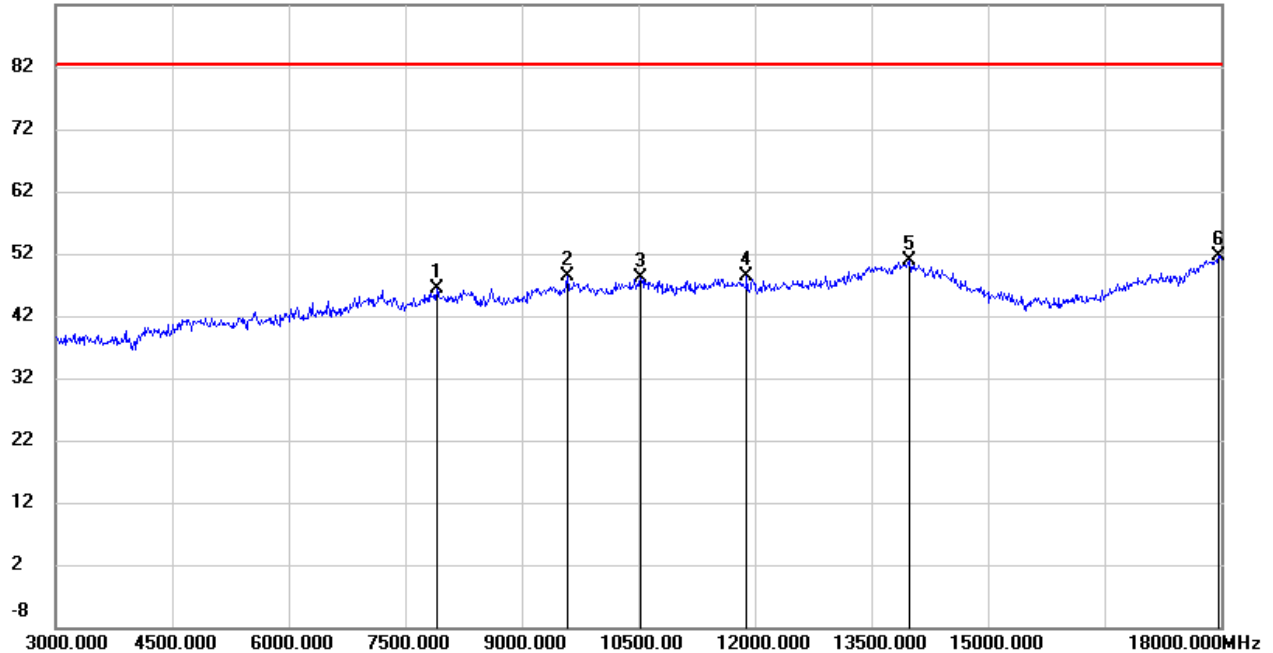
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4785.000	42.30	0.15	42.45	82.25	-39.80	peak
2	6840.000	38.96	5.47	44.43	82.25	-37.82	peak
3	8925.000	37.14	9.08	46.22	82.25	-36.03	peak
4	11820.000	31.13	17.80	48.93	82.25	-33.32	peak
5	13935.000	26.47	23.81	50.28	82.25	-31.97	peak
6	17940.000	22.78	27.61	50.39	82.25	-31.86	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	4980.000	42.04	0.58	42.62	82.25	-39.63	peak
2	7140.000	39.39	6.52	45.91	82.25	-36.34	peak
3	9795.000	35.98	12.22	48.20	82.25	-34.05	peak
4	11820.000	31.24	17.80	49.04	82.25	-33.21	peak
5	14055.000	26.05	23.74	49.79	82.25	-32.46	peak
6	17865.000	23.64	27.13	50.77	82.25	-31.48	peak

QPSK-20 MHz- High Channel-Vertical

91.9 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7905.000	38.63	7.74	46.37	82.25	-35.88	peak
2	9585.000	36.88	11.30	48.18	82.25	-34.07	peak
3	10530.000	33.86	14.12	47.98	82.25	-34.27	peak
4	11895.000	30.32	17.99	48.31	82.25	-33.94	peak
5	13995.000	26.74	24.04	50.78	82.25	-31.47	peak
6	17970.000	23.70	27.79	51.49	82.25	-30.76	peak

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

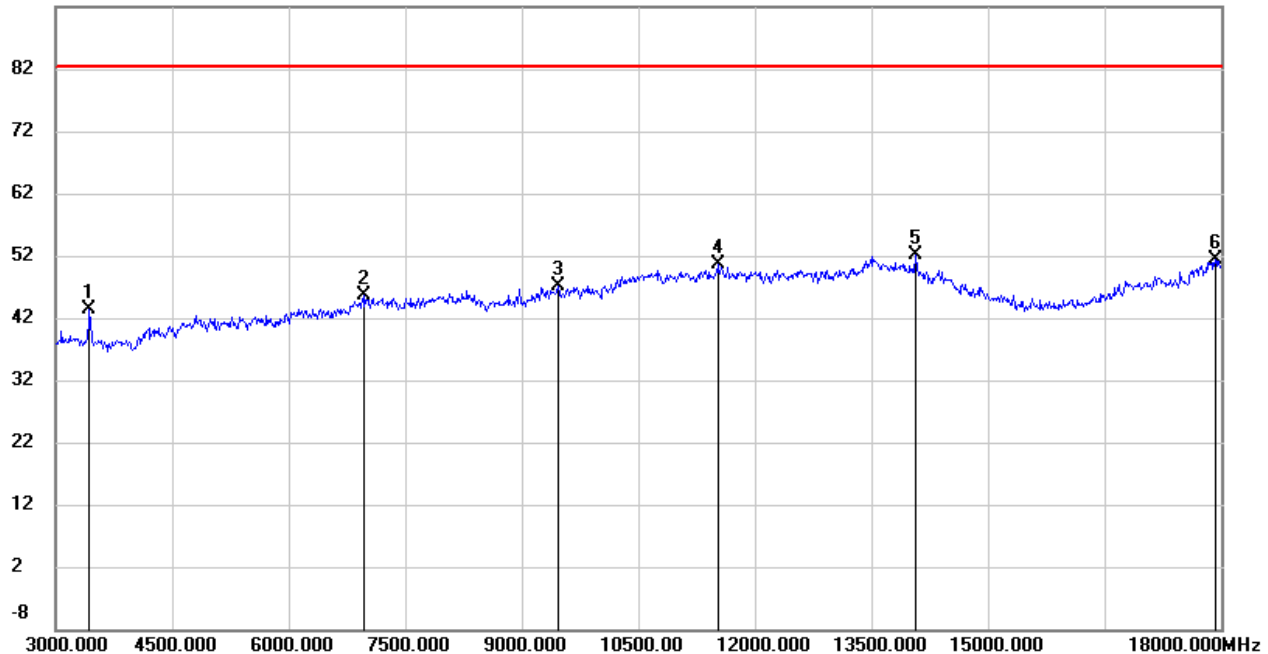
8.2. LTE Band 4

QPSK-20 MHz-Low Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3480.000	45.46	-3.99	41.47	82.25	-40.78	peak
2	4965.000	41.41	0.54	41.95	82.25	-40.30	peak
3	7215.000	38.67	6.74	45.41	82.25	-36.84	peak
4	10350.000	35.00	13.64	48.64	82.25	-33.61	peak
5	14010.000	25.56	24.00	49.56	82.25	-32.69	peak
6	18000.000	22.70	27.98	50.68	82.25	-31.57	peak

QPSK-20 MHz-Low Channel-Vertical

91.9 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3435.000	47.33	-4.02	43.31	82.25	-38.94	peak
2	6975.000	39.64	5.92	45.56	82.25	-36.69	peak
3	9465.000	36.20	10.95	47.15	82.25	-35.10	peak
4	11520.000	33.62	16.89	50.51	82.25	-31.74	peak
5	14070.000	28.26	23.65	51.91	82.25	-30.34	peak
6	17925.000	23.67	27.50	51.17	82.25	-31.08	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	3480.000	45.78	-3.99	41.79	82.25	-40.46	peak
2	4920.000	41.89	0.45	42.34	82.25	-39.91	peak
3	7920.000	38.03	7.76	45.79	82.25	-36.46	peak
4	10230.000	34.96	13.34	48.30	82.25	-33.95	peak
5	13680.000	27.04	22.96	50.00	82.25	-32.25	peak
6	17985.000	22.71	27.88	50.59	82.25	-31.66	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	3465.000	45.19	-3.99	41.20	82.25	-41.05	peak
2	5175.000	41.73	0.88	42.61	82.25	-39.64	peak
3	7785.000	38.95	7.45	46.40	82.25	-35.85	peak
4	10545.000	34.47	14.16	48.63	82.25	-33.62	peak
5	13905.000	26.74	23.69	50.43	82.25	-31.82	peak
6	17910.000	23.83	27.41	51.24	82.25	-31.01	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	3480.000	44.68	-3.99	40.69	82.25	-41.56	peak
2	5895.000	40.64	2.34	42.98	82.25	-39.27	peak
3	8040.000	38.09	7.98	46.07	82.25	-36.18	peak
4	11520.000	32.37	16.89	49.26	82.25	-32.99	peak
5	13890.000	27.03	23.64	50.67	82.25	-31.58	peak
6	17925.000	24.21	27.50	51.71	82.25	-30.54	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	4665.000	41.97	-0.18	41.79	82.25	-40.46	peak
2	6870.000	38.96	5.58	44.54	82.25	-37.71	peak
3	9405.000	38.06	10.78	48.84	82.25	-33.41	peak
4	10440.000	35.68	13.87	49.55	82.25	-32.70	peak
5	13695.000	27.20	23.00	50.20	82.25	-32.05	peak
6	17970.000	23.50	27.79	51.29	82.25	-30.96	peak

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

8.3. LTE Band 5

QPSK-10 MHz-Low Channel- Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1657.000	47.64	-10.12	37.52	82.25	-44.73	peak
2	3232.000	43.50	-5.22	38.28	82.25	-43.97	peak
3	5383.000	41.25	1.38	42.63	82.25	-39.62	peak
4	7165.000	39.34	6.52	45.86	82.25	-36.39	peak
5	8389.000	38.39	8.28	46.67	82.25	-35.58	peak
6	9649.000	35.59	11.47	47.06	82.25	-35.19	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	1981.000	46.14	-9.53	36.61	82.25	-45.64	peak
2	3583.000	43.15	-4.41	38.74	82.25	-43.51	peak
3	4636.000	42.30	-0.59	41.71	82.25	-40.54	peak
4	7039.000	39.35	6.05	45.40	82.25	-36.85	peak
5	8254.000	38.05	8.11	46.16	82.25	-36.09	peak
6	9847.000	35.01	12.18	47.19	82.25	-35.06	peak

QPSK-10 MHz-Mid Channel-Horizontal

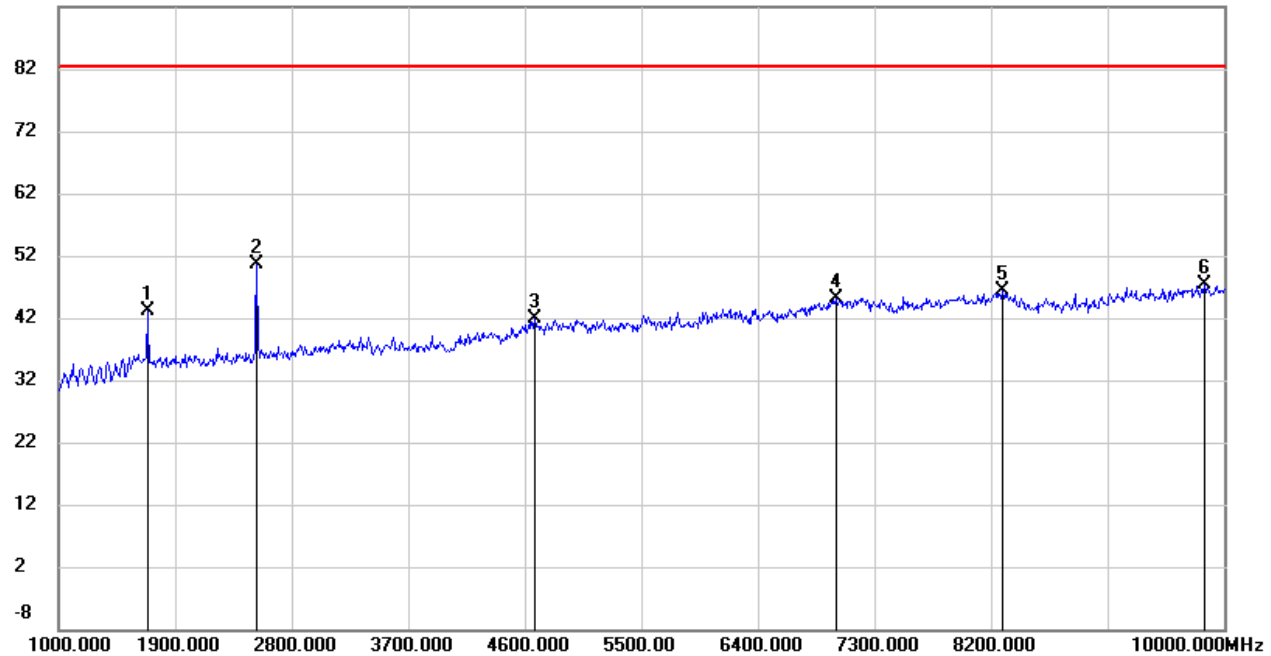
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1675.000	51.81	-10.12	41.69	82.25	-40.56	peak
2	3898.000	42.86	-4.12	38.74	82.25	-43.51	peak
3	6049.000	40.26	2.57	42.83	82.25	-39.42	peak
4	7021.000	39.77	5.99	45.76	82.25	-36.49	peak
5	8263.000	37.88	8.12	46.00	82.25	-36.25	peak
6	9766.000	35.51	11.94	47.45	82.25	-34.80	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	1684.000	46.99	-10.11	36.88	82.25	-45.37	peak
2	3223.000	44.02	-5.24	38.78	82.25	-43.47	peak
3	5572.000	40.50	1.59	42.09	82.25	-40.16	peak
4	7192.000	38.89	6.62	45.51	82.25	-36.74	peak
5	8317.000	38.14	8.19	46.33	82.25	-35.92	peak
6	9739.000	35.22	11.83	47.05	82.25	-35.20	peak

QPSK-10 MHz-High Channel-Horizontal

91.9 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1684.000	53.13	-10.11	43.02	82.25	-39.23	peak
2	2530.000	58.18	-7.66	50.52	82.25	-31.73	peak
3	4672.000	42.25	-0.51	41.74	82.25	-40.51	peak
4	7003.000	39.19	5.93	45.12	82.25	-37.13	peak
5	8290.000	38.00	8.16	46.16	82.25	-36.09	peak
6	9847.000	35.03	12.18	47.21	82.25	-35.04	peak

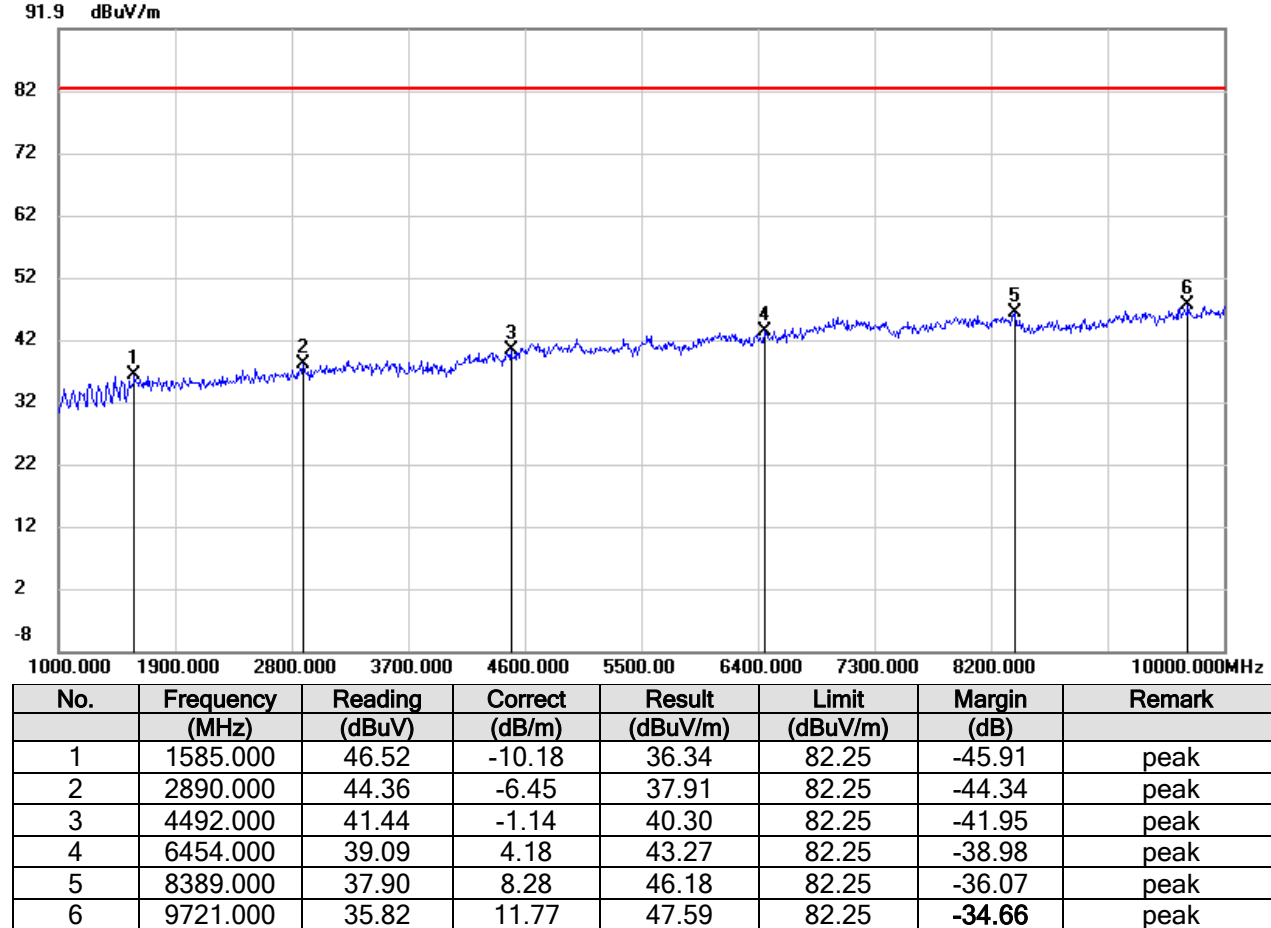
QPSK-10 MHz-High Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1684.000	48.85	-10.11	38.74	82.25	-43.51	peak
2	3583.000	43.00	-4.41	38.59	82.25	-43.66	peak
3	4987.000	42.05	0.38	42.43	82.25	-39.82	peak
4	6823.000	39.99	5.29	45.28	82.25	-36.97	peak
5	8254.000	38.45	8.11	46.56	82.25	-35.69	peak
6	9847.000	35.53	12.18	47.71	82.25	-34.54	peak

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

8.4. LTE Band 12

QPSK-10 MHz-Low Channel-Horizontal



QPSK-10 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1540.000	46.62	-10.35	36.27	82.25	-45.98	peak
2	3025.000	44.73	-5.96	38.77	82.25	-43.48	peak
3	5176.000	41.46	0.65	42.11	82.25	-40.14	peak
4	7048.000	39.64	6.09	45.73	82.25	-36.52	peak
5	8344.000	38.12	8.22	46.34	82.25	-35.91	peak
6	9694.000	35.13	11.65	46.78	82.25	-35.47	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	2026.000	46.13	-9.49	36.64	82.25	-45.61	peak
2	3043.000	44.01	-5.89	38.12	82.25	-44.13	peak
3	5023.000	41.36	0.45	41.81	82.25	-40.44	peak
4	7156.000	38.88	6.48	45.36	82.25	-36.89	peak
5	8173.000	38.40	8.05	46.45	82.25	-35.80	peak
6	9721.000	35.06	11.77	46.83	82.25	-35.42	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	2422.000	45.29	-8.13	37.16	82.25	-45.09	peak
2	3385.000	43.81	-4.84	38.97	82.25	-43.28	peak
3	4996.000	41.63	0.40	42.03	82.25	-40.22	peak
4	7003.000	39.42	5.93	45.35	82.25	-36.90	peak
5	8074.000	38.90	8.02	46.92	82.25	-35.33	peak
6	9244.000	36.95	10.13	47.08	82.25	-35.17	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	1837.000	46.29	-9.98	36.31	82.25	-45.94	peak
2	3043.000	44.27	-5.89	38.38	82.25	-43.87	peak
3	4852.000	41.93	-0.05	41.88	82.25	-40.37	peak
4	6598.000	38.86	4.61	43.47	82.25	-38.78	peak
5	8218.000	37.99	8.07	46.06	82.25	-36.19	peak
6	9514.000	36.20	11.00	47.20	82.25	-35.05	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	1630.000	46.53	-10.12	36.41	82.25	-45.84	peak
2	2449.000	47.63	-8.01	39.62	82.25	-42.63	peak
3	4546.000	41.42	-0.91	40.51	82.25	-41.74	peak
4	6976.000	40.32	5.83	46.15	82.25	-36.10	peak
5	8299.000	37.75	8.17	45.92	82.25	-36.33	peak
6	9118.000	37.44	9.71	47.15	82.25	-35.10	peak

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

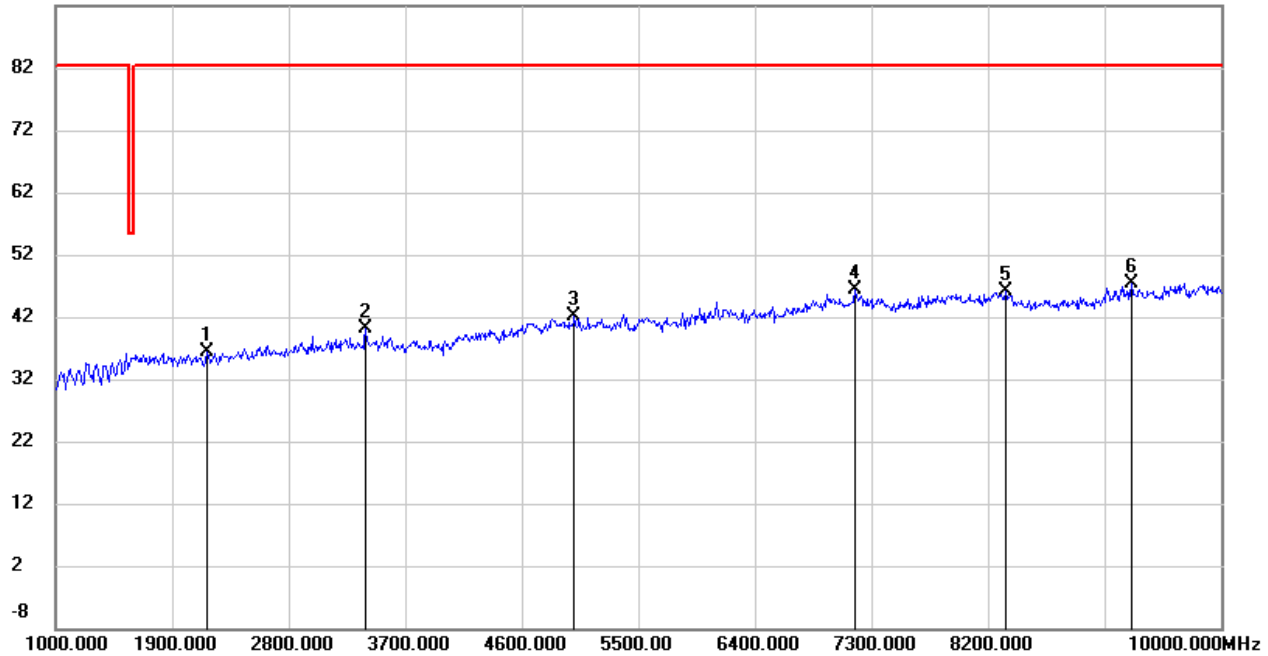
8.5. LTE Band 13

QPSK-10 MHz-Low/Mid/High Channel-Horizontal

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1693.000	46.36	-10.11	36.25	82.25	-46.00	peak
2	2404.000	47.21	-8.20	39.01	82.25	-43.24	peak
3	4087.000	43.14	-3.34	39.80	82.25	-42.45	peak
4	6193.000	40.48	3.14	43.62	82.25	-38.63	peak
5	8263.000	38.26	8.12	46.38	82.25	-35.87	peak
6	9964.000	34.84	12.46	47.30	82.25	-34.95	peak

QPSK-10 MHz-Low/Mid/High Channel-Vertical

91.9 dBuV/m



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2170.000	45.79	-9.52	36.27	82.25	-45.98	peak
2	3394.000	44.73	-4.81	39.92	82.25	-42.33	peak
3	5005.000	41.66	0.42	42.08	82.25	-40.17	peak
4	7174.000	39.76	6.54	46.30	82.25	-35.95	peak
5	8335.000	37.80	8.21	46.01	82.25	-36.24	peak
6	9307.000	37.05	10.32	47.37	82.25	-34.88	peak

Note: 1. Limit= -13dBm+95.25=82.25 dBuV/m

2.For LTE Band 13, the Low/Mid/High channel of 10MHz mode has the same frequencies. They are the same channel.

8.6. 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	4830.000	42.30	0.26	42.56	82.25	-39.69	peak
2	6990.000	39.79	5.97	45.76	82.25	-36.49	peak
3	7830.000	38.96	7.55	46.51	82.25	-35.74	peak
4	11745.000	31.83	17.58	49.41	82.25	-32.84	peak
5	13845.000	26.82	23.46	50.28	82.25	-31.97	peak
6	17985.000	23.25	27.88	51.13	82.25	-31.12	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	5160.000	42.73	0.87	43.60	82.25	-38.65	peak
2	6105.000	40.73	2.95	43.68	82.25	-38.57	peak
3	7905.000	38.33	7.74	46.07	82.25	-36.18	peak
4	11310.000	33.72	16.29	50.01	82.25	-32.24	peak
5	14040.000	26.98	23.83	50.81	82.25	-31.44	peak
6	17940.000	23.81	27.61	51.42	82.25	-30.83	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	4860.000	42.68	0.32	43.00	82.25	-39.25	peak
2	7215.000	38.93	6.74	45.67	82.25	-36.58	peak
3	8025.000	38.43	7.97	46.40	82.25	-35.85	peak
4	11040.000	33.60	15.49	49.09	82.25	-33.16	peak
5	13665.000	27.08	22.92	50.00	82.25	-32.25	peak
6	17970.000	22.75	27.79	50.54	82.25	-31.71	peak

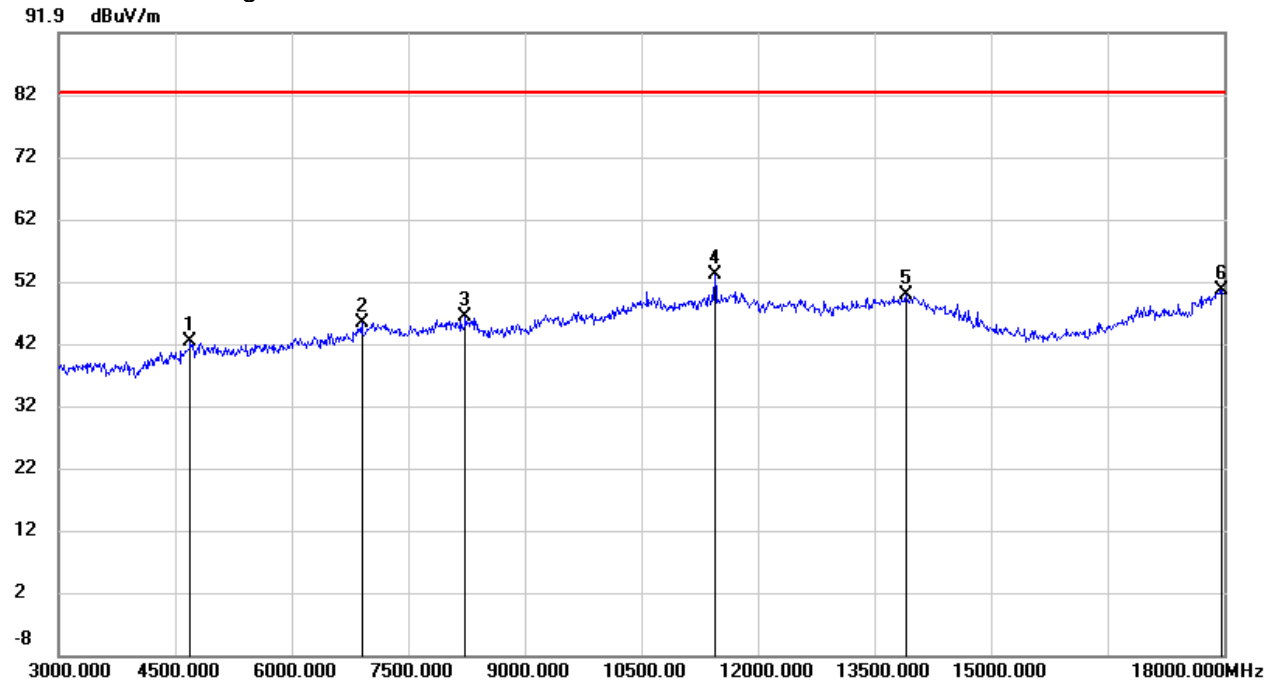
QPSK-20 MHz-Mid Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4650.000	42.36	-0.22	42.14	82.25	-40.11	peak
2	6990.000	39.41	5.97	45.38	82.25	-36.87	peak
3	8265.000	38.37	8.10	46.47	82.25	-35.78	peak
4	10680.000	34.76	14.53	49.29	82.25	-32.96	peak
5	14010.000	26.66	24.00	50.66	82.25	-31.59	peak
6	17970.000	23.12	27.79	50.91	82.25	-31.34	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	4665.000	41.70	-0.18	41.52	82.25	-40.73	peak
2	6285.000	39.80	3.66	43.46	82.25	-38.79	peak
3	8385.000	38.11	8.17	46.28	82.25	-35.97	peak
4	11190.000	33.37	16.00	49.37	82.25	-32.88	peak
5	13845.000	27.01	23.46	50.47	82.25	-31.78	peak
6	17850.000	24.04	27.04	51.08	82.25	-31.17	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	4695.000	42.44	-0.10	42.34	82.25	-39.91	peak
2	6900.000	39.71	5.67	45.38	82.25	-36.87	peak
3	8235.000	38.18	8.08	46.26	82.25	-35.99	peak
4	11445.000	36.37	16.65	53.02	82.25	-29.23	peak
5	13905.000	26.05	23.69	49.74	82.25	-32.51	peak
6	17970.000	22.71	27.79	50.50	82.25	-31.75	peak

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

8.7. 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	4680.000	41.54	-0.13	41.41	82.25	-40.84	peak
2	6105.000	40.19	2.95	43.14	82.25	-39.11	peak
3	8280.000	38.02	8.10	46.12	82.25	-36.13	peak
4	11850.000	32.61	17.88	50.49	82.25	-31.76	peak
5	13905.000	27.01	23.69	50.70	82.25	-31.55	peak
6	17985.000	23.25	27.88	51.13	82.25	-31.12	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	4710.000	42.27	-0.05	42.22	82.25	-40.03	peak
2	5565.000	40.58	1.84	42.42	82.25	-39.83	peak
3	7920.000	38.57	7.76	46.33	82.25	-35.92	peak
4	10590.000	35.33	14.27	49.60	82.25	-32.65	peak
5	13785.000	26.91	23.24	50.15	82.25	-32.10	peak
6	18000.000	23.36	27.98	51.34	82.25	-30.91	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	3480.000	46.85	-3.99	42.86	82.25	-39.39	peak
2	7005.000	39.44	6.02	45.46	82.25	-36.79	peak
3	9405.000	35.77	10.78	46.55	82.25	-35.70	peak
4	11790.000	32.05	17.71	49.76	82.25	-32.49	peak
5	13890.000	27.06	23.64	50.70	82.25	-31.55	peak
6	17865.000	24.23	27.13	51.36	82.25	-30.89	peak

QPSK-20 MHz-Mid Channel-Vertical

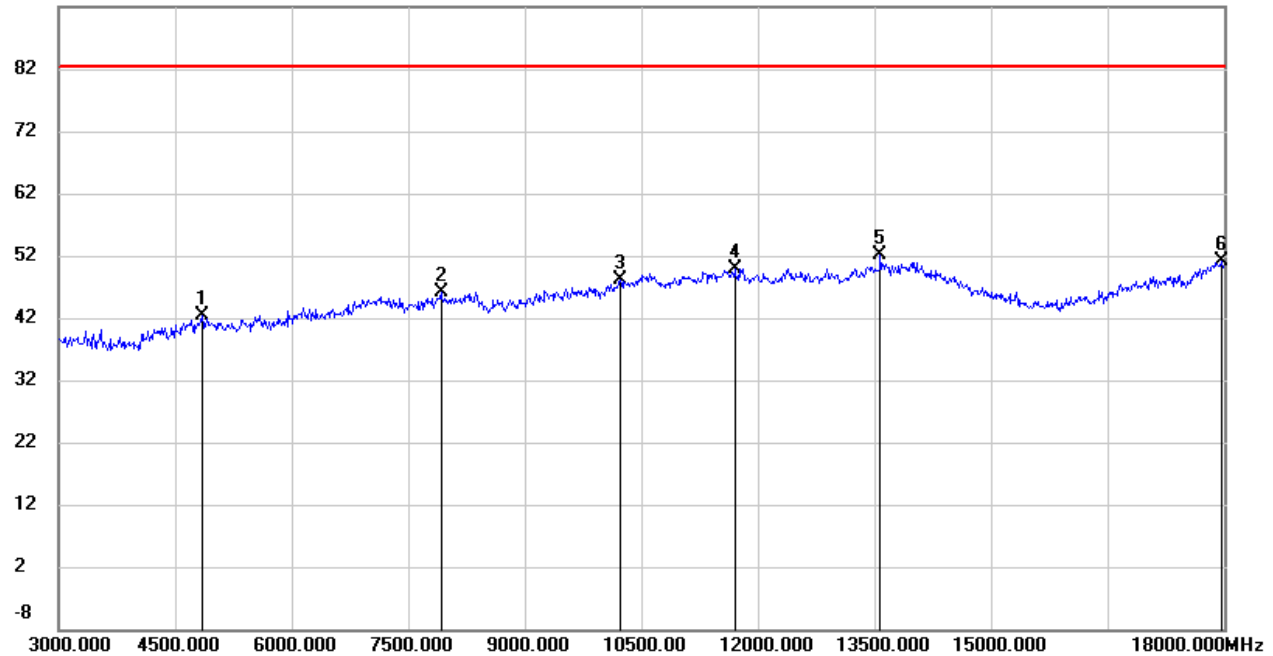
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	3495.000	46.13	-3.98	42.15	82.25	-40.10	peak
2	6780.000	39.45	5.28	44.73	82.25	-37.52	peak
3	8220.000	37.80	8.08	45.88	82.25	-36.37	peak
4	11670.000	31.94	17.36	49.30	82.25	-32.95	peak
5	13800.000	27.27	23.29	50.56	82.25	-31.69	peak
6	17910.000	22.86	27.41	50.27	82.25	-31.98	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	3540.000	47.68	-3.97	43.71	82.25	-38.54	peak
2	6150.000	40.01	3.13	43.14	82.25	-39.11	peak
3	7920.000	38.21	7.76	45.97	82.25	-36.28	peak
4	10620.000	34.70	14.36	49.06	82.25	-33.19	peak
5	13950.000	26.32	23.87	50.19	82.25	-32.06	peak
6	17880.000	23.49	27.23	50.72	82.25	-31.53	peak

QPSK-20 MHz-High Channel-Vertical

91.9 dBuV/m

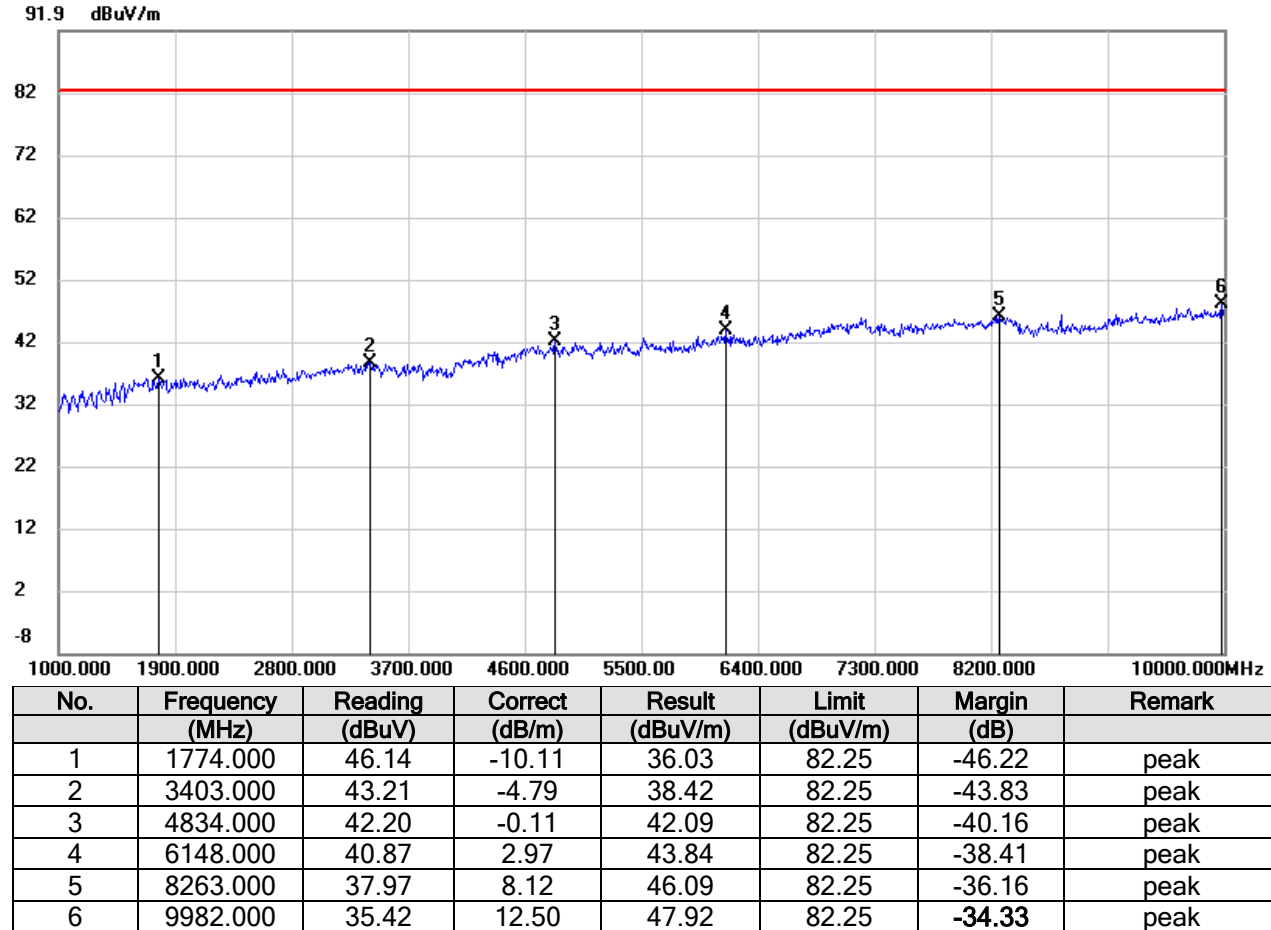


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4845.000	41.99	0.28	42.27	82.25	-39.98	peak
2	7920.000	38.17	7.76	45.93	82.25	-36.32	peak
3	10230.000	34.81	13.34	48.15	82.25	-34.10	peak
4	11700.000	32.38	17.44	49.82	82.25	-32.43	peak
5	13575.000	29.23	22.68	51.91	82.25	-30.34	peak
6	17970.000	23.24	27.79	51.03	82.25	-31.22	peak

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

8.8. LTE Band 71

QPSK-20 MHz-Low Channel-Horizontal



QPSK-20 MHz-Low Channel-Vertical

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1909.000	45.76	-9.76	36.00	82.25	-46.25	peak
2	3313.000	43.49	-5.02	38.47	82.25	-43.78	peak
3	4879.000	41.77	0.04	41.81	82.25	-40.44	peak
4	6985.000	39.75	5.86	45.61	82.25	-36.64	peak
5	8218.000	38.27	8.07	46.34	82.25	-35.91	peak
6	9622.000	35.21	11.37	46.58	82.25	-35.67	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	1684.000	46.42	-10.11	36.31	82.25	-45.94	peak
2	3286.000	43.81	-5.09	38.72	82.25	-43.53	peak
3	4825.000	42.14	-0.13	42.01	82.25	-40.24	peak
4	6382.000	39.18	3.93	43.11	82.25	-39.14	peak
5	7183.000	38.87	6.58	45.45	82.25	-36.80	peak
6	9874.000	35.08	12.25	47.33	82.25	-34.92	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	1819.000	45.93	-10.05	35.88	82.25	-46.37	peak
2	2530.000	47.09	-7.66	39.43	82.25	-42.82	peak
3	4654.000	41.84	-0.55	41.29	82.25	-40.96	peak
4	6661.000	39.39	4.79	44.18	82.25	-38.07	peak
5	8290.000	38.38	8.16	46.54	82.25	-35.71	peak
6	9874.000	34.98	12.25	47.23	82.25	-35.02	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	1666.000	47.03	-10.11	36.92	82.25	-45.33	peak
2	3169.000	45.09	-5.42	39.67	82.25	-42.58	peak
3	4834.000	41.79	-0.11	41.68	82.25	-40.57	peak
4	6094.000	40.39	2.76	43.15	82.25	-39.10	peak
5	6985.000	40.17	5.86	46.03	82.25	-36.22	peak
6	9118.000	36.45	9.71	46.16	82.25	-36.09	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	1954.000	46.86	-9.62	37.24	82.25	-45.01	peak
2	3736.000	43.37	-4.46	38.91	82.25	-43.34	peak
3	4996.000	41.18	0.40	41.58	82.25	-40.67	peak
4	7192.000	39.55	6.62	46.17	82.25	-36.08	peak
5	7957.000	38.24	7.85	46.09	82.25	-36.16	peak
6	9856.000	35.14	12.20	47.34	82.25	-34.91	peak

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

END OF REPORT