FCC TEST REPORT

Product Name:	Smart Phone
Trade Mark:	BLU
Model No.:	G73
Report Number:	2303224514RFM-2
Test Standards:	FCC 47 CFR Part 22 FCC 47 CFR Part 24 FCC 47 CFR Part 27
FCC ID:	YHLBLUG73W
Test Result:	PASS
Date of Issue:	May 15, 2023

Prepared for:

BLU Products, Inc.
8600 NW 36th Street, Suite #200 Doral, FL 33166

Prepared by:

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Version

Version No.	Date	Description
V1.0	May 15, 2023	Original

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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	BLU Products, Inc.
Address of Applicant:	8600 NW 36th Street, Suite #200 Doral, FL 33166
Manufacturer:	BLU Products, Inc.
Address of Manufacturer:	8600 NW 36th Street, Suite #200 Doral, FL 33166

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smart Phone		
Model No.:	G73		
Trade Mark:	BLU		
DUT Stage:	Identical Prototype		
EUT Supports Function: (Provided by the customer)	GSM Bands:	GSM850/PCS 1900	
	UTRA Bands:	WCDMA Band II/ Band IV/ Band V	
	E-UTRA Bands:	FDD Band 2/ Band 4/ Band 5/ Band 7/ Band 12/ Band 17/ Band 66/ Band 71	
		TDD Band 38	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth 5.0	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac
	RNSS Band:	1559 MHz to 1610 MHz	GPS/ BDS/ Galileo/ GLONASS
	BSR:	VHF Band II	FM
Software Version:	BLU_G0771_V13.0.01.01_GENERIC 20-03-2023 23:37 (Provided by the customer)		
Hardware Version:	SC6002_MB_V2.0.0 (Provided by the customer)		
Sample Received Date:	March 22, 2023		
Sample Tested Date:	March 22, 2023 to April 28, 2023		
Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.			

1.2.2 Description of Accessories

Adapter	
Model No.:	US-HY-2002
Input:	100-240 V~50/60 Hz 0.5 A
Output:	9.0 V ⎓ 2000 mA 18W

Battery	
Model No.:	C806051500P
Battery Type:	Lithium-ion Polymer Battery
Rated Voltage:	3.87 Vdc
Limited Charge Voltage:	4.45 Vdc
Typical Capacity:	5000 mAh
Rated Capacity:	4900 mAh

Cable	
Connector:	USB Cable
Cable Type:	Unshielded without ferrite
Length:	1.0 Meter

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	Single Carrier: LTE Band 2/4/5/7/12/17/66	
Type of Modulation:	QPSK, 16QAM, 64QAM	
Antenna Type: (Provided by the customer)	FPCB Antenna	
Antenna Gain: (Provided by the customer)	LTE Band 2:	0.78 dBi
	LTE Band 4:	0.61 dBi
	LTE Band 5:	-1.27 dBi
	LTE Band 7:	0.67 dBi
	LTE Band 12:	-1.15 dBi
	LTE Band 17:	-1.15 dBi
	LTE Band 38:	0.67 dBi
	LTE Band 66:	0.61 dBi
	LTE Band 71:	-3.48 dBi
Sample No.:	Radiated: S202303221229-ZJA04/6	
	Conducted: S202303221229-ZJA02/6	
Normal Test Voltage:	3.87 Vdc	
Extreme Test Voltage:	3.4 to 4.45Vdc	
Extreme Test Temperature:	-30 °C to +50 °C	

Summary of Results:								
Bands	BW (MHz)	Modulation	Frequency Range (MHz)	Max RF Output Power (dBm)		ERP/EIRP (W)	99% BW (MHz)	Emission Designator
				Conducted (Average)	ERP/EIRP (Average)			
2	1.4	QPSK	1850.7-1909.3	21.20	21.98	0.1578	1.0784	1M08G7D
		16QAM		20.89	21.67	0.1469	1.0824	1M08W7D
		64QAM		19.57	20.35	0.1084	1.0788	1M08W7D
	3	QPSK	1851.5-1908.5	21.21	21.99	0.1581	2.6886	2M69G7D
		16QAM		20.46	21.24	0.1330	2.6899	2M69W7D
		64QAM		19.04	19.82	0.0959	2.6839	2M68W7D
	5	QPSK	1852.5-1907.5	21.17	21.95	0.1567	4.4676	4M47G7D
		16QAM		19.71	20.49	0.1119	4.4662	4M47W7D
		64QAM		18.37	19.15	0.0822	4.4695	4M47W7D
	10	QPSK	1855.0-1905.0	21.14	21.92	0.1556	8.9485	8M95G7D
		16QAM		20.49	21.27	0.1340	8.9472	8M95W7D
		64QAM		18.89	19.67	0.0927	8.9484	8M95W7D
	15	QPSK	1857.5-1902.5	21.25	22.03	0.1596	13.430	13M4G7D
		16QAM		20.60	21.38	0.1374	13.423	13M4W7D
		64QAM		18.72	19.50	0.0891	13.398	13M4W7D
	20	QPSK	1860.0-1900.0	21.41	22.19	0.1656	17.884	17M9G7D
		16QAM		20.59	21.37	0.1371	17.915	17M9W7D
		64QAM		19.92	20.70	0.1175	17.903	17M9W7D
4	1.4	QPSK	1710.7-1754.3	23.25	23.86	0.2432	1.0796	1M08G7D
		16QAM		22.65	23.26	0.2118	1.0845	1M08W7D
		64QAM		22.84	23.45	0.2213	1.0801	1M08W7D
	3	QPSK	1711.5-1753.5	23.34	23.95	0.2483	2.6949	2M69G7D
		16QAM		22.01	22.62	0.1828	2.6853	2M69W7D
		64QAM		22.26	22.87	0.1936	2.6887	2M69W7D
	5	QPSK	1712.5-1752.5	23.34	23.95	0.2483	4.4664	4M47G7D
		16QAM		21.78	22.39	0.1734	4.4698	4M47W7D
		64QAM		21.51	22.12	0.1629	4.4692	4M47W7D
	10	QPSK	1715-1750	23.24	23.85	0.2427	8.934	8M93G7D
		16QAM		22.48	23.09	0.2037	8.9361	8M94W7D
		64QAM		21.97	22.58	0.1811	8.9395	8M94W7D
	15	QPSK	1717.5-1747.5	23.27	23.88	0.2443	13.414	13M4G7D
		16QAM		22.29	22.90	0.1950	13.453	13M5W7D
		64QAM		21.87	22.48	0.1770	13.401	13M4W7D
	20	QPSK	1720-1745	23.35	23.96	0.2489	17.912	17M9G7D
		16QAM		22.61	23.22	0.2099	17.888	17M9W7D
		64QAM		21.39	22.00	0.1585	17.922	17M9W7D

Bands	BW	Modulation	Frequency Range	Max RF Output Power (dBm)		ERP/EIRP	99% BW	Emission Designator
	(MHz)		(MHz)	Conducted (Average)	ERP/EIRP (Average)	(W)	(MHz)	
5	1.4	QPSK	824.7-848.3	22.93	19.51	0.0893	1.0806	1M08G7D
		16QAM		22.78	19.36	0.0863	1.0807	1M08W7D
		64QAM		22.54	19.12	0.0817	1.0828	1M08W7D
	3	QPSK	825.5-847.5	22.83	19.41	0.0873	2.6906	2M69G7D
		16QAM		22.75	19.33	0.0857	2.6873	2M68W7D
		64QAM		22.13	18.71	0.0743	2.6868	2M69W7D
	5	QPSK	826.5-846.5	23.03	19.61	0.0914	4.4623	4M47G7D
		16QAM		21.94	18.52	0.0711	4.4666	4M46W7D
		64QAM		21.26	17.84	0.0608	4.4683	4M47W7D
	10	QPSK	829-844	23.13	19.71	0.0935	8.9337	8M93G7D
		16QAM		22.11	18.69	0.0740	8.9610	8M96W7D
		64QAM		22.03	18.61	0.0726	8.9443	8M94W7D
7	5	QPSK	2502.5-2567.5	21.08	21.75	0.1496	4.4614	4M46G7D
		16QAM		19.48	20.15	0.1035	4.4675	4M47W7D
		64QAM		17.46	18.13	0.0650	4.4705	4M47W7D
	10	QPSK	2505-2565	20.96	21.63	0.1455	8.9437	8M94G7D
		16QAM		19.99	20.66	0.1164	8.9482	8M95W7D
		64QAM		18.19	18.86	0.0769	8.9389	8M94W7D
	15	QPSK	2507.5-2562.5	20.92	21.59	0.1442	13.439	13M4G7D
		16QAM		19.99	20.66	0.1164	13.446	13M4W7D
		64QAM		18.19	18.86	0.0769	13.431	13M4W7D
	20	QPSK	2510-2560	21.09	21.76	0.1500	17.876	17M9G7D
		16QAM		20.46	21.13	0.1297	17.930	17M9W7D
		64QAM		18.16	18.83	0.0764	17.902	17M9W7D
12	1.4	QPSK	699.7-715.3	23.07	19.77	0.0948	1.0793	1M08G7D
		16QAM		22.91	19.61	0.0914	1.0816	1M08W7D
		64QAM		22.50	19.20	0.0832	1.0779	1M08W7D
	3	QPSK	700.5-714.5	22.96	19.66	0.0925	2.6887	2M69G7D
		16QAM		22.80	19.50	0.0891	2.6903	2M69W7D
		64QAM		22.22	18.92	0.0780	2.6852	2M69W7D
	5	QPSK	701.5-713.5	23.13	19.83	0.0962	4.4744	4M47G7D
		16QAM		21.76	18.46	0.0701	4.4669	4M47W7D
		64QAM		21.22	17.92	0.0619	4.4568	4M46W7D
	10	QPSK	704-711	23.21	19.91	0.0979	8.9543	8M95G7D
		16QAM		22.13	18.83	0.0764	8.9486	8M95W7D
		64QAM		21.55	18.25	0.0668	8.9346	8M93W7D
17	5	QPSK	706.5-713.5	23.11	19.81	0.0957	4.4600	4M46W7D
		16QAM		22.00	18.70	0.0741	4.4636	4M46W7D
		64QAM		21.20	17.90	0.0617	4.4632	4M46W7D

Bands	BW (MHz)	Modulation	Frequency Range (MHz)	Max RF Output Power (dBm)		ERP/EIRP (W)	99% BW (MHz)	Emission Designator
				Conducted (Average)	ERP/EIRP (Average)			
	10	QPSK	709-711	23.18	19.88	0.0973	8.9513	8M95G7D
		16QAM		22.81	19.51	0.0893	8.9612	8M96W7D
		64QAM		21.54	18.24	0.0667	8.9420	8M94W7D
38	5	QPSK	2572.5-2617.5	23.09	23.76	0.2377	4.4646	4M46G7D
		16QAM		22.23	22.90	0.1950	4.4515	4M45W7D
		64QAM		21.40	22.07	0.1611	4.4640	4M46W7D
	10	QPSK	2575-2615	23.14	23.81	0.2404	8.9538	8M95G7D
		16QAM		22.11	22.78	0.1897	8.9482	8M95W7D
		64QAM		21.22	21.89	0.1545	8.9351	8M94W7D
	15	QPSK	2577.5-2612.5	23.14	23.81	0.2404	13.426	13M4G7D
		16QAM		22.16	22.83	0.1919	13.449	13M4W7D
		64QAM		21.22	21.89	0.1545	13.383	13M4W7D
	20	QPSK	2580-2610	23.23	23.90	0.2455	17.882	17M9G7D
		16QAM		23.00	23.67	0.2328	17.921	17M9W7D
		64QAM		21.97	22.64	0.1837	17.903	17M9W7D
66	1.4	QPSK	1710.7-1779.3	23.24	23.85	0.2427	1.0801	1M08G7W
		16QAM		22.68	23.29	0.2133	1.0830	1M08D7W
		64QAM		21.02	21.63	0.1455	1.0815	1M08D7W
	3	QPSK	1711.5-1778.5	23.04	23.65	0.2317	2.6805	2M68G7D
		16QAM		22.27	22.88	0.1941	2.6845	2M68W7D
		64QAM		20.59	21.20	0.1318	2.6880	2M69W7D
	5	QPSK	1712.5-1777.5	23.26	23.87	0.2438	4.4708	4M47G7D
		16QAM		21.72	22.33	0.1710	4.4631	4M46W7D
		64QAM		20.04	20.65	0.1161	4.4602	4M46W7D
	10	QPSK	1715-1775	23.13	23.74	0.2366	8.9411	8M94G7D
		16QAM		22.53	23.14	0.2061	8.9502	8M95W7D
		64QAM		20.65	21.26	0.1337	8.9416	8M94W7D
	15	QPSK	1717.5-1772.5	23.17	23.78	0.2388	13.449	13M4G7D
		16QAM		22.57	23.18	0.2080	13.419	13M4W7D
		64QAM		20.40	21.01	0.1262	13.419	13M4W7D
	20	QPSK	1720-1770	23.41	24.02	0.2523	17.883	17M9G7D
		16QAM		22.45	23.06	0.2023	17.904	17M9W7D
		64QAM		20.91	21.52	0.1419	17.886	17M9W7D
71	5	QPSK	665.5-695.5	23.23	19.75	0.0944	4.4608	4M46G7D
		16QAM		22.09	18.61	0.0726	4.4731	4M47W7D
		64QAM		21.51	18.03	0.0635	4.4620	4M46W7D
	10	QPSK	668-693	23.20	19.72	0.0938	8.9658	8M97G7D
		16QAM		23.20	19.72	0.0938	8.9570	8M96W7D
		64QAM		22.59	19.11	0.0815	8.9371	8M94W7D

Bands	BW	Modulation	Frequency Range	Max RF Output Power (dBm)		ERP/EIRP	99% BW	Emission Designator
	(MHz)		(MHz)	Conducted (Average)	ERP/EIRP (Average)	(W)	(MHz)	
	15	QPSK	670.5-690.5	23.12	19.64	0.0920	13.431	13M4G7D
		16QAM		22.86	19.38	0.0867	13.422	13M4W7D
		64QAM		22.36	18.88	0.0773	13.404	13M4W7D
	20	QPSK	673-688	23.29	19.81	0.0957	17.880	17M9G7D
		16QAM		22.97	19.49	0.0889	17.934	17M9W7D
		64QAM		22.35	18.87	0.0771	17.897	17M9W7D

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
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2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.1 Meter	UnionTrust

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district, Shenzhen, China, China 518109
Telephone: +86 (0) 755 2823 0888
Fax: +86 (0) 755 2823 0886

1.6 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069
The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01
Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories
CAB identifier: CN0032

FCC Accredited Lab.
Designation Number: CN1194
Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted Output Power	±0.7 dB
2	99%&26dB Bandwidth	±1.86 %
3	Emission Mask	±2.7 dBm
4	Spurious emissions at antenna terminals	±2.7 dBm
5	Field strength of spurious radiation	30 MHz-1 GHz: ±4.9 dB 1 GHz-18 GHz: ±4.8 dB 18 GHz-40 GHz: ±5.1 dB
6	Frequency stability	±6.5 x 10^{-8}
7	Humidity	±3.9 %
8	Temperature	±0.62 ℃
9	DC Voltages	±0.68 %

2. TEST SUMMARY

FCC 47 CFR Part 24 Test Cases (Band 2)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 24.232(c)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 24.232(d)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) & FCC 47 CFR Part 24.238(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 24.238(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 24.238(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 24.235	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 4 & Band 66)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(d)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(h)(1)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 22 Test Cases (Band 5)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 22.913(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 22.913(a)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 22.917(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 22.917(a)(b)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 22.355	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 7& Band 38)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 12& 17)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 71)			
Test Item	**Test Requirement**	**Test Method**	**Result**
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(c)(10)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h) FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(g)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

Disclaimer and Explanations:

The declared of product specification and data (e.g. antenna gain, RF specification, etc) for EUT presented in the report are provided by the customer, and the customer takes all the responsibilities for the accuracy of product specification.

3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	**Equipment**	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. date**	**Cal. Due date**
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	22-Jan-2021	21-Jan-2024
☒	Receiver	R&S	ESIB26	100114	3-Nov-2022	2-Nov-2023
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	13-Dec-2022	12-Dec-2023
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	13-Dec-2022	12-Dec-2023
☒	Preamplifier	HP	8447F	2805A02960	1-Nov-2022	31-Oct-2023
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	17-Apr-2022	16-Apr-2024
☒	Pre-amplifier	ETS-LINDGREN	00118385	00201874	1-Nov-2022	31-Oct-2023
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	21-Nov-2022	20-Nov-2023
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	21-Nov-2022	20-Nov-2023
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

RF Conducted Test Equipment List						
Used	**Equipment**	**Manufacturer**	**Model No.**	**Serial Number**	**Cal. date**	**Cal. Due date**
☒	EXA Signal Analyzer	KEYSIGHT	N9010B	MY62060155	02-Jun-2022	01-Jun-2023
☒	DC Source	KIKUSUI	PWR400L	LK003024	N/A	N/A
☒	Digital multimeter	FLUKE	15B+	30701460WS15	02-Nov-2022	01-Nov-2023
☒	Temp & Humidity chamber	Votisch	VT4002	585661332900 20	15-Apr-2022	14-Apr-2023
					14-Apr-2023	13-Apr-2024
☒	Wideband Radio Communication Tester	R&S	CMW500	119583	15-Apr-2022	14-Apr-2023
					14-Apr-2023	13-Apr-2024
☒	Wideband Radio Communication Tester	R&S	CMW500	120932	15-Apr-2022	14-Apr-2023
					14-Apr-2023	13-Apr-2024

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	3.87	20 to 75
TL/VL	-30	3.4	20 to 75
TH/VL	+50	3.4	20 to 75
TL/VH	-30	4.45	20 to 75
TH/VH	+50	4.45	20 to 75

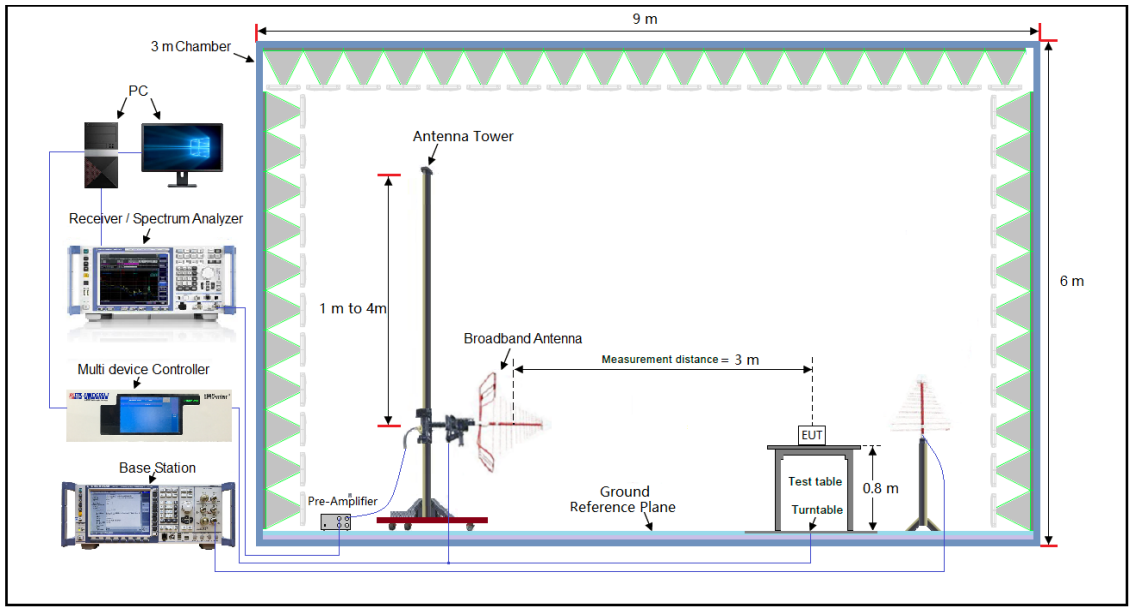
Remark:

1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 3.4 V to 4.45 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 3.4 V to 4.45 V.
2) VN: Normal Voltage; TN: Normal Temperature;
TL: Low Extreme Test Temperature; TH: High Extreme Test Temperature;
VL: Low Extreme Test Voltage; VH: High Extreme Test Voltage.

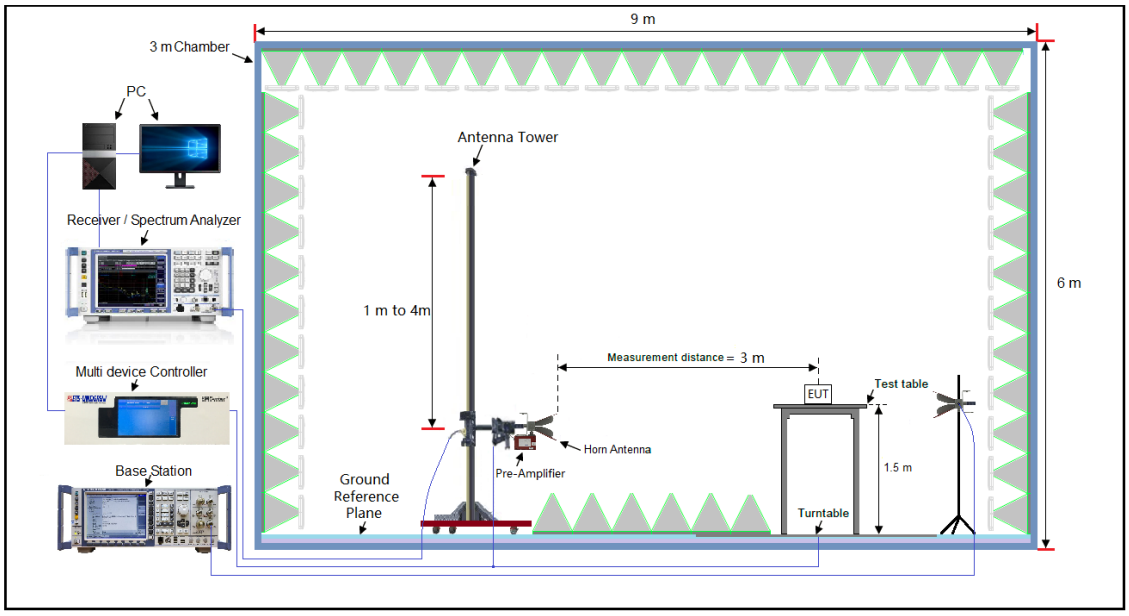
4.2 TEST SETUP

4.2.1 For Radiated Emissions test setup

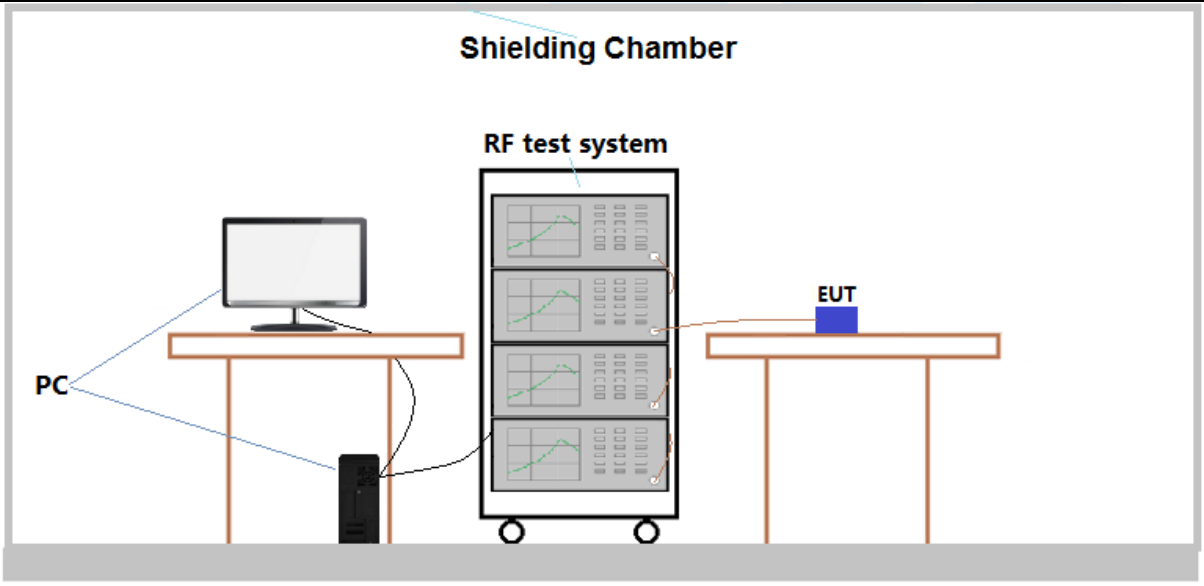
Radiated Emissions 30MHz to 1GHz Test setup



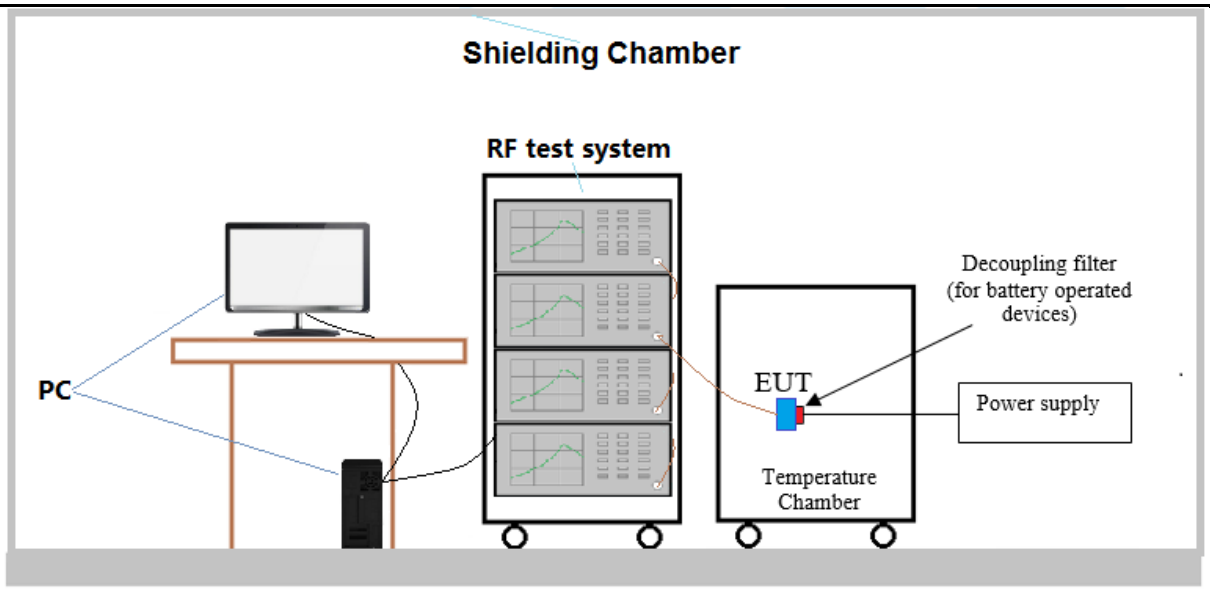
Radiated Emissions Above 1GHz Test setup



4.2.2 For Conducted RF test setup



Normal Environment



Extreme Environment

4.3 TEST CHANNELS

Band	Test Frequency ID	Bandwidth (MHz)	Number [UL]	Frequency of Uplink (MHz)
LTE Band 2 TX: 1850-1910MHz	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Middle Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900
LTE Band 4 TX: 1710-1755MHz	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Middle Range	1.4/3/5/10/ 15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
LTE band 5 TX: 824–849MHz	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Middle Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844
LTE Band 7 TX: 2500-2570MHz	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Middle Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5

		20	21350	2560
LTE Band 12 TX: 699-716MHz	Low Range	1.4	23017	699.7
		3	23025	700.5
		5	23035	701.5
		10	23060	704
	Middle Range	1.4/3/5/10	23095	707.5
	High Range	1.4	23173	715.3
		3	23165	714.5
		5	23155	713.5
		10	23130	711
LTE Band 17 TX:704-716MHz	Low Range	5	23755	706.5
		10	23780	709
	Middle Range	5/10	23790	710
	High Range	5	23825	713.5
		10	23800	711
LTE Band 38 TX: 2570-2620MHz	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Middle Range	5/10/ 15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
		20	38150	2610
LTE Band 66 TX: 1710-1780MHz	Low Range	1.4	131979	1710.7
		3	131987	1711.5
		5	131997	1712.5
		10	132022	1715
		15	132047	1717.5
		20	132072	1720
	Middle Range	1.4/3/5/10/ 15/20	132322	1745
	High Range	1.4	132665	1779.3
		3	132657	1778.5
		5	132647	1777.5
		10	132622	1775
		15	132597	1772.5
		20	132572	1770
LTE Band 71 TX: 663–698MHz	Low Range	5	133147	665.5
		10	133172	668
		15	133197	670.5
		20	133222	673
	Middle Range	5/10/15	133297	680.5
		20	133322	683
	High Range	5	133447	695.5
		10	133422	693
		15	133397	690.5

		20	133372	688

4.4 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.87Vdc battery. Only the worst case data were recorded in this test report.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X/Y/Z axis, and antenna ports.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

4.5 PRE-SCAN

Pre-scan all bandwidth and RB, find worse case mode are chosen to the report, the LTE worse case mode applicability and tested channel detail as below:

Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted output power	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☒	☒	☒	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
99%&26dB Bandwidth	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☐	☐	☒	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
peak-to-average ratio	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☐	☐	☒	☐	☒	☐
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☐	☒	☐
	17	-	-	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☐	☒	☐
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐

	71	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐

Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Band Edge at antenna terminals	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☒	☐	☒	☒	☐	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☐	☒	☒	☐	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☐	☒	☒	☐	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	66	☒	☒	☒	☒	☒	--	☒	☒	☒	☒	☐	☒	☒	☐	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
Spurious emissions at antenna terminals	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☒	☐	☐	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☐	☐	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☐	☐	☒	☒	☒
	38	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
Field strength of spurious radiation	2	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	4	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	5	☐	☐	☐	☒	--	--	☒	☐	☐	☒	☐	☐	☒	☒	☒
	7	-	-	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	12	☐	☐	☐	☒	-	-	☒	☐	☐	☒	☐	☐	☒	☒	☒
	17	-	-	☐	☒	-	-	☒	☐	☐	☒	☐	☐	☒	☒	☒
	38	-	-	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	66	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	71	-	-	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒

Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Frequency stability	2	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	4	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	5	☐	☐	☐	☒	--	--	☒	☐	☐	☐	☐	☒	☐	☒	☐
	7	-	-	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	12	☐	☐	☐	☒	-	-	☒	☐	☐	☐	☐	☒	☐	☒	☐
	17	-	-	☐	☒	-	-	☒	☐	☐	☐	☐	☒	☐	☒	☐
	38	-	-	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	66	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	71	-	-	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐

Remark:
The mark "☒" means is chosen for testing; The mark "☐" means is not chosen for testing;
The mark "-" means is not supported bandwidth

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 22	Public Mobile Services
3	FCC 47 CFR Part 27	Miscellaneous Wireless Communications Services
4	FCC 47 CFR Part 24	Personal Communications Services
5	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
6	KDB 971168 D01	KDB 971168 D01 Power Meas License Digital Systems v03r01

5.2 CONDUCTED OUTPUT POWER

Test Requirement: FCC 47 CFR Part 2.1046(a)
LTE Band 2: FCC 47 CFR Part 24.232(c)
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.50(d)(4)
LTE Band 5: FCC 47 CFR Part 22.913(a)
LTE Band 7 & Band 38: FCC 47 CFR Part 27.50(h)(2)
LTE Band 12 & Band 17& Band 71: FCC 47 CFR Part 27.50(c)(10)

Test Method: KDB 971168 D01v03r01 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a):
The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):
Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):
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 watt EIRP.

FCC 47 CFR Part 27.50(c)(10):
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.

FCC 47 CFR Part 27.50(h)(2):
Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Test Procedure:
The EUT was set up for the maximum power with CMW500, and LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass

5.2.1 LTE Band 2

Conducted Power(dBm)												
Modulation			QPSK			16QAM			64QAM			
Band	Bandwidth (MHz)	RB	18607	18900	19193	18607	18900	19193	18607	18900	19193	
			1850.7	1880	1909.3	1850.7	1880	1909.3	1850.7	1880	1909.3	
2	1.4	1@0	21.11	21.20	20.86	20.23	20.85	19.43	19.13	19.57	18.33	
		1@3	21.13	21.10	20.82	20.22	20.80	19.24	19.14	19.52	18.32	
		1@5	21.15	21.16	20.83	20.20	20.89	19.34	19.15	19.55	18.37	
		3@0	20.68	20.81	20.41	19.69	19.99	19.58	18.47	18.27	18.13	
		3@1	20.80	20.73	20.47	19.30	19.26	19.07	18.56	18.25	17.94	
		3@3	20.72	20.80	20.45	19.75	19.98	19.42	18.24	18.52	18.05	
		6@0	19.75	19.81	19.52	17.88	18.28	17.85	17.61	17.47	17.23	
Band	Bandwidth (MHz)	RB	18615	18900	19185	18615	18900	19185	18615	18900	19185	
			1851.5	1880	1908.5	1851.5	1880	1908.5	1851.5	1880	1908.5	
2	3	1@0	21.05	21.11	20.96	20.04	20.46	18.79	18.89	19.02	17.87	
		1@8	21.12	21.21	20.86	20.00	20.34	18.71	18.87	18.96	17.75	
		1@14	21.09	21.18	20.83	19.98	20.36	18.69	18.70	19.04	17.13	
		8@0	19.79	19.82	19.59	18.09	18.24	18.17	17.72	17.47	17.33	
		8@4	19.79	19.75	19.51	18.34	18.42	18.12	17.41	17.51	17.14	
		8@7	19.68	19.82	19.55	18.49	18.28	18.01	17.76	17.45	17.24	
		15@0	19.73	19.82	19.49	18.23	18.19	18.14	17.55	17.42	17.13	
Band	Bandwidth (MHz)	RB	18625	18900	19175	18625	18900	19175	18625	18900	19175	
			1852.5	1880	1907.5	1852.5	1880	1907.5	1852.5	1880	1907.5	
2	5	1@0	21.17	21.06	20.98	19.04	19.63	19.55	17.50	18.37	17.65	
		1@12	21.07	21.03	20.93	18.88	19.71	19.46	17.57	18.24	17.97	
		1@24	21.12	21.13	20.86	19.06	19.71	19.31	17.41	18.32	17.53	
		12@0	19.71	19.84	19.60	18.00	18.21	18.32	17.37	17.13	17.11	
		12@7	19.58	19.75	19.58	18.59	18.49	18.32	17.40	17.44	17.08	
		12@13	19.70	19.83	19.50	18.62	18.25	17.91	17.38	17.31	16.92	
		25@0	19.70	19.85	19.59	18.40	18.23	18.21	17.49	17.39	17.21	
Band	Bandwidth (MHz)	RB	18650	18900	19150	18650	18900	19150	18650	18900	19150	
			1855	1880	1905	1855	1880	1905	1855	1880	1905	
2	10	1@0	21.12	21.14	21.11	19.50	20.33	20.49	18.89	18.44	17.47	
		1@25	21.04	20.98	21.13	18.93	19.97	19.72	18.80	18.45	17.35	
		1@49	21.07	21.13	20.88	18.94	20.01	19.51	18.74	18.31	17.17	
		25@0	20.08	20.19	20.05	17.77	18.38	19.30	17.45	17.56	17.38	
		25@12	20.16	20.15	20.00	18.35	18.43	18.94	17.34	17.55	17.36	
		25@25	20.19	20.33	19.98	18.80	18.68	18.61	17.44	17.43	17.30	
		50@0	20.24	20.31	20.01	18.29	18.51	18.98	17.41	17.40	17.17	
Band	Bandwidth (MHz)	RB	18675	18900	19125	18675	18900	19125	18675	18900	19125	
			1857.5	1880	1902.5	1857.5	1880	1902.5	1857.5	1880	1902.5	
2	15	1@0	21.12	21.08	20.77	20.02	20.52	19.62	18.72	18.50	18.39	
		1@37	21.08	21.25	21.10	19.95	20.60	19.74	18.57	18.43	18.25	
		1@74	21.05	21.18	20.58	19.96	19.88	19.53	18.65	18.37	18.09	
		36@0	20.19	20.21	20.22	18.14	18.41	18.48	17.39	17.54	17.39	
		36@20	20.10	20.18	20.08	18.58	18.34	17.88	17.42	17.52	17.27	
		36@39	20.16	20.18	20.09	18.69	18.47	17.21	17.43	17.59	17.12	
		75@0	20.25	20.18	20.21	18.44	18.45	17.92	17.41	17.45	17.36	
Band	Bandwidth (MHz)	RB	18700	18900	19100	18700	18900	19100	18700	18900	19100	
			1860	1880	1900	1860	1880	1900	1860	1880	1900	
2	20	1@0	21.39	21.41	21.20	19.76	20.06	20.57	19.17	19.49	19.92	
		1@49	21.30	21.38	21.15	19.63	20.00	20.59	19.00	19.48	19.83	
		1@99	21.28	21.32	20.93	19.67	20.04	20.34	19.18	19.35	19.58	
		50@0	20.07	20.23	20.14	18.06	18.78	18.90	17.41	18.37	18.77	
		50@24	20.14	20.19	20.10	18.27	18.45	18.37	17.32	18.29	18.64	
		50@50	20.21	20.17	19.97	18.10	18.79	17.70	17.45	18.30	18.68	
		100@0	20.21	20.38	20.07	18.10	18.78	18.28	17.41	18.28	18.61	

5.2.2 LTE Band 4

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth	RB	19957	20175	20393	19957	20175	20393	19957	20175	20393
	(MHz)		1710.7	1732.5	1754.3	1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
4	1.4	1@0	23.03	23.09	23.21	22.13	22.63	21.85	22.32	22.62	21.77
		1@3	23.06	23.11	23.25	22.18	22.47	21.82	22.48	22.84	21.79
		1@5	22.97	23.12	23.24	22.18	22.65	22.02	22.48	22.69	21.75
		3@0	23.20	23.20	23.11	21.53	21.88	21.86	21.54	21.26	21.64
		3@1	23.10	23.11	23.16	21.75	21.61	21.66	21.57	21.36	21.41
		3@3	23.19	23.21	23.07	21.56	21.94	21.59	21.34	21.55	21.31
		6@0	22.13	22.21	22.10	20.80	20.94	20.96	20.51	20.72	20.75
Band	Bandwidth	RB	19965	20175	20385	19965	20175	20385	19965	20175	20385
	(MHz)		1711.5	1732.5	1753.5	1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
4	3	1@0	23.01	23.07	23.29	21.97	21.82	21.58	21.99	22.26	21.28
		1@8	23.01	23.06	23.34	22.01	21.76	21.50	21.70	21.49	20.96
		1@14	22.95	23.13	23.19	21.95	21.79	21.51	22.05	22.25	21.23
		8@0	22.16	22.11	22.07	21.05	20.86	21.08	20.70	20.62	20.94
		8@4	22.10	22.19	22.10	20.70	21.03	20.83	20.52	20.87	20.50
		8@7	22.08	22.16	22.04	21.00	20.89	21.13	20.75	20.55	20.91
		15@0	22.07	22.15	22.16	20.91	20.85	20.76	20.63	20.51	20.64
Band	Bandwidth	RB	19975	20175	20375	19975	20175	20375	19975	20175	20375
	(MHz)		1712.5	1732.5	1752.5	1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
4	5	1@0	23.26	23.27	22.96	20.84	21.55	21.00	20.55	21.51	20.81
		1@12	23.04	23.04	23.13	20.88	21.78	21.66	20.59	21.39	21.40
		1@24	23.25	23.34	23.03	20.80	21.68	20.98	20.58	21.51	20.76
		12@0	22.09	22.09	22.15	20.74	20.85	20.70	20.48	20.60	20.32
		12@7	22.17	22.19	22.15	20.77	20.90	20.79	20.54	20.51	20.53
		12@13	22.18	22.08	22.07	20.82	20.69	20.79	20.46	20.53	20.45
		25@0	22.13	22.15	22.12	20.93	20.83	20.70	20.62	20.48	20.56
Band	Bandwidth	RB	20000	20175	20350	20000	20175	20350	20000	20175	20350
	(MHz)		1715	1732.5	1750	1715	1732.5	1750	1715	1732.5	1750
4	10	1@0	22.93	23.24	23.01	21.99	22.48	21.36	21.97	21.54	20.81
		1@25	22.99	23.06	23.13	22.24	21.80	21.04	21.96	21.52	20.83
		1@49	23.07	23.22	23.00	22.01	21.78	21.32	21.90	21.48	20.75
		25@0	22.14	22.19	22.09	20.83	20.85	20.91	20.52	20.67	20.66
		25@12	22.09	22.08	22.14	20.83	20.91	20.93	20.42	20.64	20.67
		25@25	22.08	22.15	22.22	20.90	20.91	20.91	20.62	20.68	20.70
		50@0	22.23	22.24	22.16	20.91	20.87	20.86	20.58	20.68	20.59
Band	Bandwidth	RB	20025	20175	20325	20025	20175	20325	20025	20175	20325
	(MHz)		1717.5	1732.5	1747.5	1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
4	15	1@0	22.92	23.25	23.13	22.20	21.78	22.08	21.72	21.57	21.87
		1@37	23.02	23.20	23.15	22.25	21.85	22.04	21.75	21.52	21.79
		1@74	23.06	23.27	23.17	22.29	21.84	22.00	21.70	21.47	21.68
		36@0	22.17	22.15	22.09	20.82	20.84	20.81	20.66	20.76	20.61
		36@20	22.13	22.25	22.15	20.74	20.85	20.83	20.60	20.67	20.58
		36@39	22.21	22.06	22.16	20.75	20.80	20.82	20.67	20.66	20.57
		75@0	22.18	22.18	22.21	20.84	20.86	20.88	20.60	20.61	20.63
Band	Bandwidth	RB	20050	20175	20300	20050	20175	20300	20050	20175	20300
	(MHz)		1720	1732.5	1745	1720	1732.5	1745	1720	1732.5	1745
4	20	1@0	22.96	23.00	23.07	21.62	21.98	22.51	21.11	20.95	21.39
		1@49	22.95	22.97	23.08	21.62	22.03	22.61	21.11	20.96	20.93
		1@99	23.35	22.99	23.07	21.61	21.66	22.56	21.07	20.94	20.89
		50@0	22.22	22.18	22.13	20.89	20.84	20.78	20.18	20.25	20.04
		50@24	22.22	22.23	22.12	20.87	20.91	20.86	20.04	20.30	20.15
		50@50	22.07	22.11	22.19	20.87	20.75	20.79	20.10	20.17	20.08
		100@0	22.22	22.19	22.25	20.88	20.80	20.85	20.19	20.26	19.97

5.2.3 LTE Band 5

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)	RB	20407 824.7	20525 836.5	20643 848.3	20407 824.7	20525 836.5	20643 848.3	20407 824.7	20525 836.5	20643 848.3
5	1.4	1@0	22.85	22.74	22.75	22.39	22.78	22.13	21.80	22.01	21.30
		1@3	22.78	22.93	22.79	22.75	22.74	21.66	22.12	22.54	21.31
		1@5	22.84	22.75	22.77	22.37	22.76	22.07	21.82	22.05	21.48
		3@0	22.85	22.86	22.82	21.79	21.96	21.73	21.42	21.08	21.39
		3@1	22.91	22.80	22.90	22.00	21.95	21.79	21.44	21.34	21.15
		3@3	22.88	22.85	22.87	22.12	21.71	22.03	21.55	21.15	21.40
		6@0	21.90	21.87	21.70	20.95	21.04	20.98	20.35	20.57	20.34
Band	Bandwidth (MHz)	RB	20415 825.5	20525 836.5	20635 847.5	20415 825.5	20525 836.5	20635 847.5	20415 825.5	20525 836.5	20635 847.5
5	3	1@0	22.80	22.80	22.79	22.44	22.55	21.57	21.82	22.03	20.95
		1@8	22.77	22.76	22.80	22.35	22.75	21.48	21.81	22.13	20.85
		1@14	22.82	22.80	22.83	22.30	22.66	21.52	21.70	22.04	20.88
		8@0	21.96	21.84	21.97	21.25	20.88	21.16	20.64	20.38	20.52
		8@4	22.00	21.85	21.82	20.94	21.16	20.90	20.27	20.51	20.26
		8@7	21.95	21.90	21.77	21.19	20.96	21.15	20.60	20.39	20.37
		15@0	21.95	21.82	21.94	20.97	21.03	20.89	20.36	20.35	20.24
Band	Bandwidth (MHz)	RB	20425 826.5	20525 836.5	20625 846.5	20425 826.5	20525 836.5	20625 846.5	20425 826.5	20525 836.5	20625 846.5
5	5	1@0	22.89	22.99	22.95	21.07	21.87	21.88	20.39	21.22	20.77
		1@12	22.82	23.00	22.91	21.07	21.89	21.92	20.63	21.26	20.84
		1@24	22.78	23.03	22.96	21.08	21.94	21.82	20.61	21.25	20.79
		12@0	21.94	21.87	21.92	21.01	20.85	20.92	20.37	20.33	20.22
		12@7	21.89	21.85	21.90	20.97	21.02	20.98	20.33	20.45	20.38
		12@13	21.94	21.84	21.86	20.90	21.01	20.99	20.28	20.38	20.31
		25@0	21.84	21.87	21.98	21.04	21.00	21.06	20.40	20.36	20.54
Band	Bandwidth (MHz)	RB	20450 829	20525 836.5	20600 844	20450 829	20525 836.5	20600 844	20450 829	20525 836.5	20600 844
5	10	1@0	23.13	22.83	22.96	21.21	22.11	22.02	22.01	20.59	21.51
		1@25	23.01	22.79	22.96	21.14	22.08	21.95	22.03	20.62	21.47
		1@49	22.92	22.86	22.96	21.08	22.11	21.92	21.94	20.54	21.87
		25@0	21.98	21.84	21.93	21.07	20.93	21.08	20.33	20.43	20.40
		25@12	21.85	21.90	21.88	21.07	21.07	21.00	20.39	20.47	20.22
		25@25	21.84	21.91	21.93	21.15	20.99	21.08	20.45	20.46	20.36
		50@0	21.81	21.92	21.87	20.94	21.03	21.06	20.38	20.34	20.30

5.2.4 LTE Band 7

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)	RB	20775	21100	21425	20775	21100	21425	20775	21100	21425
			2502.5	2535	2567.5	2502.5	2535	2567.5	2502.5	2535	2567.5
7	5	1@0	21.08	21.00	20.94	18.41	19.22	18.86	16.25	17.19	17.46
		1@12	21.02	21.08	21.02	18.63	19.20	19.48	16.61	17.23	16.67
		1@24	20.89	20.99	20.90	18.68	19.25	19.47	16.38	17.12	17.41
		12@0	19.87	19.98	19.97	17.90	18.20	18.10	16.40	16.46	16.38
		12@7	19.84	19.91	19.89	18.25	18.43	18.33	16.31	16.53	16.41
		12@13	19.98	19.99	19.98	18.08	18.12	18.04	16.34	16.44	16.33
		25@0	19.95	19.94	20.04	18.07	18.16	18.18	16.43	16.44	16.57
Band	Bandwidth (MHz)	RB	20800	21100	21400	20800	21100	21400	20800	21100	21400
			2505	2535	2565	2505	2535	2565	2505	2535	2565
7	10	1@0	20.82	20.89	20.90	19.99	19.56	19.40	17.49	18.05	17.32
		1@25	20.82	20.93	20.96	19.62	19.61	18.78	17.46	18.19	17.17
		1@49	20.80	20.95	20.87	19.63	19.63	18.80	17.42	18.10	17.17
		25@0	19.83	20.00	20.05	18.26	18.34	18.46	16.39	16.57	16.56
		25@12	19.90	19.97	20.06	18.52	18.35	18.52	16.32	16.53	16.59
		25@25	19.99	20.03	19.91	18.90	18.40	18.56	16.31	16.57	16.58
		50@0	19.97	20.01	19.99	18.58	18.39	18.49	16.37	16.56	16.42
Band	Bandwidth (MHz)	RB	20825	21100	21375	20825	21100	21375	20825	21100	21375
			2507.5	2535	2562.5	2507.5	2535	2562.5	2507.5	2535	2562.5
7	15	1@0	20.77	20.92	20.69	19.91	19.82	19.91	17.83	18.18	17.47
		1@37	20.61	20.83	20.70	19.99	19.75	19.96	17.78	18.19	17.30
		1@74	20.75	20.87	20.52	19.60	19.86	19.91	17.76	18.14	17.38
		36@0	19.89	19.88	20.10	18.43	18.54	18.54	16.43	16.44	16.53
		36@20	19.92	19.90	19.88	18.63	18.32	18.45	16.32	16.56	16.47
		36@39	19.91	20.02	19.94	18.88	18.21	18.42	16.57	16.50	16.47
		75@0	19.77	19.91	20.01	18.60	18.34	18.49	16.27	16.55	16.40
Band	Bandwidth (MHz)	RB	20850	21100	21350	20850	21100	21350	20850	21100	21350
			2510	2535	2560	2510	2535	2560	2510	2535	2560
7	20	1@0	20.88	21.09	21.06	19.26	19.80	20.46	18.16	17.06	17.85
		1@49	20.77	20.91	21.03	19.05	19.93	20.39	17.89	17.23	17.49
		1@99	20.90	21.02	21.05	19.10	19.95	20.44	18.08	17.22	17.48
		50@0	19.86	19.96	19.89	18.24	18.75	18.58	16.29	16.60	16.55
		50@24	19.92	20.05	19.99	18.45	18.33	18.44	16.30	16.57	16.54
		50@50	19.87	20.06	19.97	18.85	18.32	18.53	16.37	16.59	16.47
		100@0	19.90	20.05	19.99	18.56	18.54	18.55	16.45	16.46	16.44

5.2.5 LTE Band 12

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth	RB	23017	23095	23173	23017	23095	23173	23017	23095	23173
	(MHz)		699.7	707.5	715.3	699.7	707.5	715.3	699.7	707.5	715.3
12	1.4	1@0	22.97	22.93	22.81	22.88	22.86	21.99	22.23	22.30	21.34
		1@3	22.93	22.98	22.85	22.44	22.54	21.91	22.11	22.01	21.54
		1@5	22.94	22.87	22.87	22.67	22.91	22.24	21.86	22.50	21.22
		3@0	23.05	22.98	22.91	21.84	21.98	22.04	21.57	21.42	21.13
		3@1	23.02	23.00	23.07	22.12	21.95	22.43	21.51	21.35	21.37
		3@3	22.99	22.86	23.06	22.15	21.76	21.79	21.62	21.20	21.57
		6@0	22.00	22.02	22.04	21.40	21.21	21.39	20.89	20.62	20.68
Band	Bandwidth	RB	23025	23095	23165	23025	23095	23165	23025	23095	23165
	(MHz)		700.5	707.5	714.5	700.5	707.5	714.5	700.5	707.5	714.5
12	3	1@0	22.89	22.96	22.90	22.47	22.80	21.32	21.85	22.22	20.97
		1@8	22.81	22.95	22.80	22.46	22.79	21.24	21.48	22.18	20.92
		1@14	22.85	22.93	22.92	22.51	22.77	21.45	21.51	21.44	21.08
		8@0	21.98	22.00	21.95	21.79	21.51	21.07	21.13	20.91	20.61
		8@4	21.91	21.97	21.95	21.40	21.17	21.01	20.76	20.52	20.40
		8@7	21.99	21.90	21.93	21.31	21.05	21.37	20.71	20.42	20.86
		15@0	21.99	22.00	21.90	21.38	20.95	20.93	20.87	20.43	20.36
Band	Bandwidth	RB	23035	23095	23155	23035	23095	23155	23035	23095	23155
	(MHz)		701.5	707.5	713.5	701.5	707.5	713.5	701.5	707.5	713.5
12	5	1@0	22.95	23.13	23.10	21.17	21.74	21.54	20.58	21.19	20.91
		1@12	22.98	23.04	23.01	21.20	21.76	21.50	20.66	21.22	20.89
		1@24	22.94	23.11	23.04	21.19	21.75	21.63	20.63	21.21	20.99
		12@0	22.07	22.01	21.95	21.41	21.53	21.00	20.88	20.82	20.43
		12@7	22.01	22.00	22.01	21.14	21.03	21.04	20.65	20.49	20.45
		12@13	22.08	21.85	21.93	21.11	21.04	21.09	20.62	20.54	20.39
		25@0	22.09	21.97	22.04	21.20	20.96	21.19	20.71	20.46	20.59
Band	Bandwidth	RB	23060	23095	23130	23060	23095	23130	23060	23095	23130
	(MHz)		704	707.5	711	704	707.5	711	704	707.5	711
12	10	1@0	23.21	22.86	22.97	21.22	22.07	21.99	21.17	21.49	21.51
		1@25	23.16	22.82	22.96	21.33	22.07	21.95	21.14	21.46	21.49
		1@49	23.11	22.85	23.11	21.16	22.09	22.13	20.89	21.55	21.50
		25@0	22.04	21.96	21.91	21.18	21.43	21.12	20.57	20.93	20.48
		25@12	22.12	21.95	21.97	21.15	20.99	21.08	20.58	20.40	20.44
		25@25	22.08	21.97	21.96	21.57	21.07	21.05	20.99	20.53	20.58
		50@0	22.08	21.96	21.96	20.98	20.96	21.08	20.47	20.50	20.53

5.2.6 LTE Band 17

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth	RB	23755	23790	23825	23755	23790	23825	23755	23790	23825
	(MHz)		706.5	710	713.5	706.5	710	713.5	706.5	710	713.5
17	5	1@0	23.00	23.04	23.03	21.04	21.57	21.94	20.44	21.18	20.96
		1@12	22.87	22.96	23.03	21.01	21.66	21.91	20.41	21.20	20.89
		1@24	22.92	22.96	23.11	20.98	21.69	22.00	20.38	21.17	20.96
		12@0	21.92	21.90	22.01	21.38	20.83	21.08	20.85	20.41	20.46
		12@7	21.98	21.98	21.97	21.33	21.06	21.02	20.80	20.48	20.50
		12@13	21.97	21.97	21.96	20.88	20.83	21.02	20.36	20.24	20.33
		25@0	21.94	22.08	22.07	21.43	20.98	21.18	20.90	20.43	20.48
Band	Bandwidth	RB	23780	23790	23800	23780	23790	23800	23780	23790	23800
	(MHz)		709	710	711	709	710	711	709	710	711
17	10	1@0	23.18	22.96	22.92	21.30	22.07	22.81	20.80	21.52	21.44
		1@25	23.08	22.86	22.85	21.20	22.07	22.08	20.61	21.54	21.50
		1@49	23.04	22.78	22.93	21.22	22.11	22.06	20.74	21.44	21.45
		25@0	21.98	21.92	21.97	21.54	20.98	21.10	20.96	20.48	20.54
		25@12	21.94	22.01	21.94	20.99	21.03	21.08	20.49	20.57	20.55
		25@25	22.00	22.00	22.01	21.13	21.01	21.04	20.55	20.47	20.45
		50@0	22.06	22.03	21.94	20.92	21.09	21.07	20.41	20.54	20.52

5.2.7 LTE Band 38

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)	RB	37775	38000	38225	37775	38000	38225	37775	38000	38225
			2572.5	2595	2617.5	2572.5	2595	2617.5	2572.5	2595	2617.5
38	5	1@0	23.09	22.98	22.80	22.20	21.47	21.95	20.97	21.39	21.31
		1@12	22.84	22.74	22.84	22.23	21.53	21.86	21.40	20.47	20.71
		1@24	22.97	22.71	22.80	22.16	21.39	22.01	21.08	20.42	20.81
		12@0	21.99	21.83	21.86	21.06	21.01	21.03	20.13	20.05	19.97
		12@7	21.99	21.97	21.77	20.98	20.79	20.98	19.98	19.86	19.87
		12@13	21.81	21.92	21.79	21.01	21.18	21.13	20.08	20.02	20.02
		25@0	21.85	21.83	21.83	21.26	21.22	20.82	20.15	20.17	19.76
Band	Bandwidth (MHz)	RB	37800	38000	38200	37800	38000	38200	37800	38000	38200
			2575	2595	2615	2575	2595	2615	2575	2595	2615
38	10	1@0	23.14	23.13	22.78	22.09	21.62	22.06	21.22	20.85	21.09
		1@25	23.01	23.04	22.70	22.03	21.53	21.99	21.04	20.72	21.02
		1@49	23.07	23.02	22.86	21.97	21.69	22.11	21.03	20.92	20.95
		25@0	21.80	21.79	21.88	20.97	21.15	21.18	19.99	20.20	20.16
		25@12	21.84	21.82	21.90	20.90	21.17	21.12	20.09	20.17	20.08
		25@25	21.90	21.86	22.00	20.98	21.16	21.20	20.03	20.23	20.13
		50@0	21.77	21.77	21.93	21.11	21.03	21.14	20.12	19.94	20.09
Band	Bandwidth (MHz)	RB	37825	38000	38175	37825	38000	38175	37825	38000	38175
			2577.5	2595	2612.5	2577.5	2595	2612.5	2577.5	2595	2612.5
38	15	1@0	23.06	23.14	22.90	22.16	21.77	21.40	21.22	20.83	20.27
		1@37	23.00	23.11	22.81	22.10	21.76	21.44	21.08	20.69	20.39
		1@74	23.02	23.06	22.89	22.11	21.78	21.33	20.99	20.66	20.27
		36@0	22.00	21.86	21.79	21.09	20.88	21.20	20.10	19.82	20.21
		36@20	21.88	21.89	21.85	20.98	20.90	21.01	19.96	19.97	20.06
		36@39	21.92	21.87	21.76	21.01	20.90	21.13	20.01	19.80	20.09
		75@0	21.95	21.94	21.86	21.01	21.21	21.05	20.02	20.23	20.04
Band	Bandwidth (MHz)	RB	37850	38000	38150	37850	38000	38150	37850	38000	38150
			2580	2595	2610	2580	2595	2610	2580	2595	2610
38	20	1@0	22.84	22.77	23.19	22.23	21.79	23.00	21.97	20.62	20.47
		1@49	22.89	22.86	23.15	22.19	21.70	22.93	21.84	20.58	20.37
		1@99	22.96	22.80	23.23	22.11	21.61	22.94	21.78	20.48	20.26
		50@0	22.06	22.00	22.18	21.46	21.34	21.18	20.27	20.27	20.18
		50@24	22.04	22.01	22.01	21.33	21.23	21.30	20.21	20.06	19.87
		50@50	21.99	21.94	22.02	21.38	21.38	21.49	20.25	20.16	19.97
		100@0	22.04	22.05	21.98	21.35	21.16	21.34	20.13	20.12	19.95

5.2.8 LTE Band 66

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)	RB	131979	132322	132665	131979	132322	132665	131979	132322	132665
			1710.7	1745	1779.3	1710.7	1745	1779.3	1710.7	1745	1779.3
66	1.4	1@0	23.05	22.97	22.76	22.20	22.35	21.52	20.65	21.02	19.97
		1@3	23.03	22.93	22.86	22.21	22.68	21.53	20.45	20.74	19.91
		1@5	23.05	22.96	22.83	22.18	22.63	21.50	20.47	20.68	20.01
		3@0	23.18	23.08	22.85	21.62	21.59	21.47	19.93	19.74	19.97
		3@1	23.24	23.16	22.85	21.81	21.37	21.58	20.14	19.79	19.88
		3@3	23.17	23.07	22.90	21.55	21.43	21.70	19.92	19.72	19.77
		6@0	22.10	22.12	21.92	21.11	20.91	20.86	19.05	19.41	18.95
Band	Bandwidth (MHz)	RB	131987	132322	132657	131987	132322	132657	131987	132322	132657
			1711.5	1745	1778.5	1711.5	1745	1778.5	1711.5	1745	1778.5
66	3	1@0	23.02	22.98	22.82	22.27	22.05	21.34	20.59	20.46	19.68
		1@8	23.04	22.97	22.90	22.21	22.17	21.31	20.31	20.10	19.00
		1@14	23.01	22.96	22.83	22.22	22.15	21.38	20.54	20.45	19.08
		8@0	22.12	22.14	21.93	21.16	20.86	20.87	19.33	19.20	19.17
		8@4	22.18	22.18	21.99	20.83	20.96	20.61	19.12	19.36	18.91
		8@7	22.16	22.13	21.88	21.19	20.89	20.79	19.37	19.20	19.09
		15@0	22.14	22.14	21.97	20.96	20.80	20.64	19.17	19.15	18.93
Band	Bandwidth (MHz)	RB	131997	132322	132647	131997	132322	132647	131997	132322	132647
			1712.5	1745	1777.5	1712.5	1745	1777.5	1712.5	1745	1777.5
66	5	1@0	23.22	23.26	22.99	20.84	21.48	21.10	19.14	20.03	19.40
		1@12	23.05	22.93	22.85	20.83	21.72	21.47	19.32	19.96	19.80
		1@24	23.06	23.25	22.98	20.89	21.59	21.04	19.10	20.04	19.36
		12@0	22.16	22.14	21.99	20.76	20.76	20.51	19.11	18.95	18.96
		12@7	22.11	22.18	22.05	20.85	20.70	20.60	19.18	19.14	18.92
		12@13	22.12	22.02	21.95	20.84	20.83	20.54	19.10	18.92	18.73
		25@0	22.09	22.17	21.93	20.88	20.74	20.72	19.20	19.05	18.97
Band	Bandwidth (MHz)	RB	132022	132322	132622	132022	132322	132622	132022	132322	132622
			1715	1745	1775	1715	1745	1775	1715	1745	1775
66	10	1@0	23.08	23.10	23.01	22.27	22.53	20.83	20.60	20.50	19.15
		1@25	23.05	23.00	22.88	21.96	22.08	21.37	20.65	20.44	19.06
		1@49	23.07	23.13	22.80	22.23	22.51	20.80	20.58	20.39	19.02
		25@0	22.12	22.11	22.15	20.81	20.80	20.87	19.17	19.17	19.19
		25@12	22.08	22.05	21.97	20.89	20.85	20.79	19.07	19.13	19.09
		25@25	22.07	22.04	22.07	20.85	20.76	20.78	19.17	19.13	19.09
		50@0	22.10	22.12	21.94	20.89	20.76	20.73	19.23	19.23	18.92
Band	Bandwidth (MHz)	RB	132047	132322	132597	132047	132322	132597	132047	132322	132597
			1717.5	1745	1772.5	1717.5	1745	1772.5	1717.5	1745	1772.5
66	15	1@0	22.99	23.04	23.16	22.35	22.57	21.73	20.33	20.40	20.14
		1@37	23.02	23.09	23.17	22.25	22.50	21.68	20.28	20.40	20.05
		1@74	23.08	23.03	23.06	22.22	22.49	21.63	20.23	20.37	19.96
		36@0	22.17	22.09	22.15	20.88	20.89	20.72	19.18	19.20	19.08
		36@20	22.25	22.18	22.04	20.83	20.92	20.69	19.13	19.15	19.02
		36@39	22.21	22.03	21.98	20.87	20.72	20.64	19.13	19.15	18.94
		75@0	22.18	22.06	22.12	20.96	20.82	20.77	19.25	19.18	19.08
Band	Bandwidth (MHz)	RB	132072	132322	132572	132072	132322	132572	132072	132322	132572
			1720	1745	1770	1720	1745	1770	1720	1745	1770
66	20	1@0	22.95	23.25	23.08	21.70	21.57	22.40	20.91	19.38	20.22
		1@49	22.96	23.22	22.98	21.70	21.58	22.45	20.89	19.45	19.86
		1@99	23.41	23.18	22.97	21.64	21.51	22.32	20.79	19.67	19.68
		50@0	22.20	22.18	22.16	20.89	20.69	20.67	19.19	19.16	19.07
		50@24	22.09	22.11	22.13	20.89	20.73	20.71	18.95	19.15	19.13
		50@50	22.04	22.10	21.91	20.94	20.79	20.68	19.09	19.16	18.90
		100@0	22.19	22.24	22.14	20.76	20.73	20.76	19.14	19.09	18.90

5.2.9 LTE Band 71

Conducted Power(dBm)												
Modulation			QPSK			16QAM			64QAM			
Band	Bandwidth (MHz)	RB	133147	133297	133447	133147	133297	133447	133147	133297	133447	
			665.5	680.5	695.5	665.5	680.5	695.5	665.5	680.5	695.5	
71	5	1@0	23.23	23.19	23.12	21.40	22.09	22.02	21.04	21.51	21.45	
		1@12	23.03	23.08	23.10	21.35	22.02	21.93	20.82	21.43	21.44	
		1@24	23.13	23.01	23.06	21.34	22.03	21.96	20.93	21.41	21.35	
		12@0	22.21	22.13	22.11	21.53	21.39	21.04	20.94	20.79	20.42	
		12@7	22.15	22.20	22.07	21.49	21.44	21.39	20.90	20.85	20.77	
		12@13	22.23	22.21	21.97	21.44	21.05	21.40	20.84	20.52	20.80	
		25@0	22.11	22.13	22.24	21.67	21.37	21.50	21.10	20.83	20.99	
Band	Bandwidth (MHz)	RB	133172	133297	133422	133172	133297	133422	133172	133297	133422	
			668	680.5	693	668	680.5	693	668	680.5	693	
71	10	1@0	23.15	23.07	23.04	22.69	23.20	21.88	21.81	22.59	21.25	
		1@25	23.20	23.12	23.04	22.80	22.90	21.93	21.84	22.28	21.33	
		1@49	23.10	23.06	22.90	22.68	22.87	21.80	21.77	22.24	21.25	
		25@0	22.28	22.14	22.03	21.56	21.42	21.58	20.94	20.79	20.98	
		25@12	22.24	22.14	22.14	21.51	21.57	21.35	20.94	21.00	20.73	
		25@25	22.24	22.12	22.12	21.25	21.17	21.58	20.60	20.57	20.98	
		50@0	22.19	22.20	22.10	21.60	21.44	21.25	20.98	20.94	20.59	
Band	Bandwidth (MHz)	RB	133197	133297	133397	133197	133297	133397	133197	133297	133397	
			670.5	680.5	690.5	670.5	680.5	690.5	670.5	680.5	690.5	
71	15	1@0	23.12	23.04	22.81	22.68	22.36	22.39	22.07	22.34	21.37	
		1@37	22.99	23.11	23.10	22.16	22.86	21.86	22.12	22.36	21.70	
		1@74	23.09	22.99	22.63	22.61	22.24	22.22	22.07	22.27	21.31	
		36@0	22.22	22.23	22.16	21.64	21.33	21.47	21.01	20.74	20.85	
		36@20	22.11	22.16	22.09	21.10	21.53	21.42	20.47	21.01	20.83	
		36@39	22.08	22.15	22.15	21.12	21.02	21.11	20.43	20.49	20.54	
		75@0	22.12	22.18	22.09	21.11	21.51	21.51	20.48	20.97	20.84	
Band	Bandwidth (MHz)	RB	133222	133322	133372	133222	133322	133372	133222	133322	133372	
			673	683	688	673	683	688	673	683	688	
71	20	1@0	23.27	23.15	23.24	22.85	21.79	22.43	22.34	21.41	21.69	
		1@49	23.28	23.11	23.00	22.77	21.94	22.09	22.35	21.25	21.79	
		1@99	23.29	23.13	23.00	22.97	21.74	22.34	22.19	21.34	21.43	
		50@0	22.13	22.12	22.04	21.56	21.40	21.08	20.92	20.89	20.49	
		50@24	22.18	22.13	22.03	21.05	21.12	21.48	20.43	20.49	20.84	
		50@50	22.27	22.08	22.04	21.42	21.46	21.00	20.76	20.89	20.45	
		100@0	22.20	22.14	22.02	21.14	21.11	21.38	20.48	20.58	20.88	

5.3 ERP OR EIRP

Test Requirement: FCC 47 CFR Part 2.1046(a)
LTE Band 2: FCC 47 CFR Part 24.232(c)
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.50(d)(4)
LTE Band 5: FCC 47 CFR Part 22.913(a)
LTE Band 7& LTE Band 38: FCC 47 CFR Part 27.50(h)(2)
LTE Band 12 & Band 17& LTE Band 71: FCC 47 CFR Part 27.50(c)(10)

Test Method: KDB 971168 D01v03r01 Section 5.6 & ANSI C63.26-2015

Limit:

FCC 47 CFR Part 22.913(a):
The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):
Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):
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 watt EIRP.

FCC 47 CFR Part 27.50(c)(10):
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.

FCC 47 CFR Part 27.50(h)(2):
Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Test Procedure:
According to KDB 412172 D01 Power Approach,

- **ERP or EIRP = $P_T + G_T - L_C$**
- **ERP = EIRP - 2.15**

where

- **P_T** = transmitter output power, expressed in dBW, dBm, or PSD;
- **G_T** = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- **L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.**

Test Setup: Refer to section 4.2.1 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass
Test Data: See table below

Note: The maximum ERP/EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.

5.3.1 LTE Band 2

Channel	Maximum EIRP (dBm)				Maximum EIRP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 1.4MHz									
Lowest	21.93	21.01	19.93	33.01	0.1560	0.1262	0.0984	2	Pass
Middle	21.98	21.67	20.35	33.01	0.1578	0.1469	0.1084	2	Pass
Highest	21.64	20.36	19.15	33.01	0.1459	0.1086	0.0822	2	Pass
Channel Bandwidth: 3MHz									
Lowest	21.90	20.82	19.67	33.01	0.1549	0.1208	0.0927	2	Pass
Middle	21.99	21.24	19.82	33.01	0.1581	0.1330	0.0959	2	Pass
Highest	21.74	19.57	18.65	33.01	0.1493	0.0906	0.0733	2	Pass
Channel Bandwidth: 5MHz									
Lowest	21.95	19.84	18.35	33.01	0.1567	0.0964	0.0684	2	Pass
Middle	21.91	20.49	19.15	33.01	0.1552	0.1119	0.0822	2	Pass
Highest	21.76	20.33	18.75	33.01	0.1500	0.1079	0.0750	2	Pass
Channel Bandwidth: 10MHz									
Lowest	21.90	20.28	19.67	33.01	0.1549	0.1067	0.0927	2	Pass
Middle	21.92	21.11	19.23	33.01	0.1556	0.1291	0.0838	2	Pass
Highest	21.91	21.27	18.25	33.01	0.1552	0.1340	0.0668	2	Pass
Channel Bandwidth: 15MHz									
Lowest	21.90	20.80	19.50	33.01	0.1549	0.1202	0.0891	2	Pass
Middle	22.03	21.38	19.28	33.01	0.1596	0.1374	0.0847	2	Pass
Highest	21.88	20.52	19.17	33.01	0.1542	0.1127	0.0826	2	Pass
Channel Bandwidth: 20MHz									
Lowest	22.17	20.54	19.96	33.01	0.1648	0.1132	0.0991	2	Pass
Middle	22.19	20.84	20.27	33.01	0.1656	0.1213	0.1064	2	Pass
Highest	21.98	21.37	20.70	33.01	0.1578	0.1371	0.1175	2	Pass

5.3.2 LTE Band 4

Channel	Maximum EIRP (dBm)				Maximum EIRP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 1.4MHz									
Lowest	23.81	22.79	23.09	30.00	0.2404	0.1901	0.2037	1	Pass
Middle	23.82	23.26	23.45	30.00	0.2410	0.2118	0.2213	1	Pass
Highest	23.86	22.63	22.40	30.00	0.2432	0.1832	0.1738	1	Pass
Channel Bandwidth: 3MHz									
Lowest	23.62	22.62	22.66	30.00	0.2301	0.1828	0.1845	1	Pass
Middle	23.74	22.43	22.87	30.00	0.2366	0.1750	0.1936	1	Pass
Highest	23.95	22.19	21.89	30.00	0.2483	0.1656	0.1545	1	Pass
Channel Bandwidth: 5MHz									
Lowest	23.87	21.54	21.23	30.00	0.2438	0.1426	0.1327	1	Pass
Middle	23.95	22.39	22.12	30.00	0.2483	0.1734	0.1629	1	Pass
Highest	23.74	22.27	22.01	30.00	0.2366	0.1687	0.1589	1	Pass
Channel Bandwidth: 10MHz									
Lowest	23.68	22.85	22.58	30.00	0.2333	0.1928	0.1811	1	Pass
Middle	23.85	23.09	22.15	30.00	0.2427	0.2037	0.1641	1	Pass
Highest	23.74	21.97	21.44	30.00	0.2366	0.1574	0.1393	1	Pass
Channel Bandwidth: 15MHz									
Lowest	23.67	22.90	22.36	30.00	0.2328	0.1950	0.1722	1	Pass
Middle	23.88	22.46	22.18	30.00	0.2443	0.1762	0.1652	1	Pass
Highest	23.78	22.69	22.48	30.00	0.2388	0.1858	0.1770	1	Pass
Channel Bandwidth: 20MHz									
Lowest	23.96	22.23	21.72	30.00	0.2489	0.1671	0.1486	1	Pass
Middle	23.61	22.64	21.57	30.00	0.2296	0.1837	0.1435	1	Pass
Highest	23.69	23.22	22.00	30.00	0.2339	0.2099	0.1585	1	Pass

5.3.3 LTE Band 5

Channel	Maximum ERP (dBm)				Maximum ERP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 1.4MHz									
Lowest	19.49	19.33	18.70	38.45	0.0889	0.0857	0.0741	7	Pass
Middle	19.51	19.36	19.12	38.45	0.0893	0.0863	0.0817	7	Pass
Highest	19.48	18.71	18.06	38.45	0.0887	0.0743	0.0640	7	Pass
Channel Bandwidth: 3MHz									
Lowest	19.40	19.02	18.40	38.45	0.0871	0.0798	0.0692	7	Pass
Middle	19.38	19.33	18.71	38.45	0.0867	0.0857	0.0743	7	Pass
Highest	19.41	18.15	17.53	38.45	0.0873	0.0653	0.0566	7	Pass
Channel Bandwidth: 5MHz									
Lowest	19.47	17.66	17.21	38.45	0.0885	0.0583	0.0526	7	Pass
Middle	19.61	18.52	17.84	38.45	0.0914	0.0711	0.0608	7	Pass
Highest	19.54	18.50	17.42	38.45	0.0899	0.0708	0.0552	7	Pass
Channel Bandwidth: 10MHz									
Lowest	19.71	17.79	18.61	38.45	0.0935	0.0601	0.0726	7	Pass
Middle	19.44	18.69	17.20	38.45	0.0879	0.0740	0.0525	7	Pass
Highest	19.54	18.60	18.45	38.45	0.0899	0.0724	0.0700	7	Pass

5.3.4 LTE Band 7

Channel	Maximum EIRP (dBm)				Maximum EIRP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 5MHz									
Lowest	21.75	19.35	17.28	30.00	0.1496	0.0861	0.0535	2	Pass
Middle	21.75	19.92	17.90	30.00	0.1496	0.0982	0.0617	2	Pass
Highest	21.69	20.15	18.13	30.00	0.1476	0.1035	0.0650	2	Pass
Channel Bandwidth: 10MHz									
Lowest	21.49	20.66	18.16	30.00	0.1409	0.1164	0.0655	2	Pass
Middle	21.62	20.30	18.86	30.00	0.1452	0.1072	0.0769	2	Pass
Highest	21.63	20.07	17.99	30.00	0.1455	0.1016	0.0630	2	Pass
Channel Bandwidth: 15MHz									
Lowest	21.44	20.66	18.50	30.00	0.1393	0.1164	0.0708	2	Pass
Middle	21.59	20.53	18.86	30.00	0.1442	0.1130	0.0769	2	Pass
Highest	21.37	20.63	18.14	30.00	0.1371	0.1156	0.0652	2	Pass
Channel Bandwidth: 20MHz									
Lowest	21.57	19.93	18.83	30.00	0.1435	0.0984	0.0764	2	Pass
Middle	21.76	20.62	17.90	30.00	0.1500	0.1153	0.0617	2	Pass
Highest	21.73	21.13	18.52	30.00	0.1489	0.1297	0.0711	2	Pass

5.3.5 LTE Band 12

Channel	Maximum ERP (dBm)				Maximum ERP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 1.4MHz									
Lowest	19.75	19.58	18.93	38.45	0.0944	0.0908	0.0782	3	Pass
Middle	19.70	19.61	19.20	38.45	0.0933	0.0914	0.0832	3	Pass
Highest	19.77	19.13	18.27	38.45	0.0948	0.0818	0.0671	3	Pass
Channel Bandwidth: 3MHz									
Lowest	19.59	19.21	18.55	38.45	0.0910	0.0834	0.0716	3	Pass
Middle	19.66	19.50	18.92	38.45	0.0925	0.0891	0.0780	3	Pass
Highest	19.62	18.15	17.78	38.45	0.0916	0.0653	0.0600	3	Pass
Channel Bandwidth: 5MHz									
Lowest	19.68	18.11	17.58	38.45	0.0929	0.0647	0.0573	3	Pass
Middle	19.83	18.46	17.92	38.45	0.0962	0.0701	0.0619	3	Pass
Highest	19.80	18.33	17.69	38.45	0.0955	0.0681	0.0587	3	Pass
Channel Bandwidth: 10MHz									
Lowest	19.91	18.27	17.87	38.45	0.0979	0.0671	0.0612	3	Pass
Middle	19.56	18.79	18.25	38.45	0.0904	0.0757	0.0668	3	Pass
Highest	19.81	18.83	18.21	38.45	0.0957	0.0764	0.0662	3	Pass

5.3.6 LTE Band 17

Channel	Maximum ERP (dBm)				Maximum ERP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 5MHz									
Lowest	19.70	18.13	17.60	34.77	0.0933	0.0650	0.0575	3	Pass
Middle	19.74	18.39	17.90	34.77	0.0942	0.0690	0.0617	3	Pass
Highest	19.81	18.70	17.66	34.77	0.0957	0.0741	0.0583	3	Pass
Channel Bandwidth: 10MHz									
Lowest	19.88	18.24	17.66	34.77	0.0973	0.0667	0.0583	3	Pass
Middle	19.66	18.81	18.24	34.77	0.0925	0.0760	0.0667	3	Pass
Highest	19.63	19.51	18.20	34.77	0.0918	0.0893	0.0661	3	Pass

5.3.7 LTE Band 38

Channel	Maximum EIRP (dBm)				Maximum EIRP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 5MHz									
Lowest	23.76	22.90	22.07	30.00	0.2377	0.1950	0.1611	2	Pass
Middle	23.65	22.20	22.06	30.00	0.2317	0.1660	0.1607	2	Pass
Highest	23.51	22.68	21.98	30.00	0.2244	0.1854	0.1578	2	Pass
Channel Bandwidth: 10MHz									
Lowest	23.81	22.76	21.89	30.00	0.2404	0.1888	0.1545	2	Pass
Middle	23.80	22.36	21.59	30.00	0.2399	0.1722	0.1442	2	Pass
Highest	23.53	22.78	21.76	30.00	0.2254	0.1897	0.1500	2	Pass
Channel Bandwidth: 15MHz									
Lowest	23.73	22.83	21.89	30.00	0.2360	0.1919	0.1545	2	Pass
Middle	23.81	22.45	21.50	30.00	0.2404	0.1758	0.1413	2	Pass
Highest	23.57	22.11	21.06	30.00	0.2275	0.1626	0.1276	2	Pass
Channel Bandwidth: 20MHz									
Lowest	23.63	22.90	22.64	30.00	0.2307	0.1950	0.1837	2	Pass
Middle	23.53	22.46	21.29	30.00	0.2254	0.1762	0.1346	2	Pass
Highest	23.90	23.67	21.14	30.00	0.2455	0.2328	0.1300	2	Pass

5.3.8 LTE Band 66

Channel	Maximum EIRP (dBm)				Maximum EIRP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 1.4MHz									
Lowest	23.85	22.82	21.26	33.01	0.2427	0.1914	0.1337	1	Pass
Middle	23.77	23.29	21.63	33.01	0.2382	0.2133	0.1455	1	Pass
Highest	23.51	22.31	20.62	33.01	0.2244	0.1702	0.1153	1	Pass
Channel Bandwidth: 3MHz									
Lowest	23.65	22.88	21.20	33.01	0.2317	0.1941	0.1318	1	Pass
Middle	23.59	22.78	21.07	33.01	0.2286	0.1897	0.1279	1	Pass
Highest	23.51	21.99	20.29	33.01	0.2244	0.1581	0.1069	1	Pass
Channel Bandwidth: 5MHz									
Lowest	23.83	21.50	19.93	33.01	0.2415	0.1413	0.0984	1	Pass
Middle	23.87	22.33	20.65	33.01	0.2438	0.1710	0.1161	1	Pass
Highest	23.60	22.08	20.41	33.01	0.2291	0.1614	0.1099	1	Pass
Channel Bandwidth: 10MHz									
Lowest	23.69	22.88	21.26	33.01	0.2339	0.1941	0.1337	1	Pass
Middle	23.74	23.14	21.11	33.01	0.2366	0.2061	0.1291	1	Pass
Highest	23.62	21.98	19.80	33.01	0.2301	0.1578	0.0955	1	Pass
Channel Bandwidth: 15MHz									
Lowest	23.69	22.96	20.94	33.01	0.2339	0.1977	0.1242	1	Pass
Middle	23.70	23.18	21.01	33.01	0.2344	0.2080	0.1262	1	Pass
Highest	23.78	22.34	20.75	33.01	0.2388	0.1714	0.1189	1	Pass
Channel Bandwidth: 20MHz									
Lowest	24.02	22.31	21.52	33.01	0.2523	0.1702	0.1419	1	Pass
Middle	23.86	22.19	20.28	33.01	0.2432	0.1656	0.1067	1	Pass
Highest	23.69	23.06	20.83	33.01	0.2339	0.2023	0.1211	1	Pass

5.3.9 LTE Band 71

Channel	Maximum ERP (dBm)				Maximum ERP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 5MHz									
Lowest	19.75	18.19	17.62	30.00	0.0944	0.0659	0.0578	3	Pass
Middle	19.71	18.61	18.03	30.00	0.0935	0.0726	0.0635	3	Pass
Highest	19.64	18.54	17.97	30.00	0.0920	0.0714	0.0627	3	Pass
Channel Bandwidth: 10MHz									
Lowest	19.72	19.32	18.36	30.00	0.0938	0.0855	0.0685	3	Pass
Middle	19.64	19.72	19.11	30.00	0.0920	0.0938	0.0815	3	Pass
Highest	19.56	18.45	17.85	30.00	0.0904	0.0700	0.0610	3	Pass
Channel Bandwidth: 15MHz									
Lowest	19.64	19.20	18.64	30.00	0.0920	0.0832	0.0731	3	Pass
Middle	19.63	19.38	18.88	30.00	0.0918	0.0867	0.0773	3	Pass
Highest	19.62	18.91	18.22	30.00	0.0916	0.0778	0.0664	3	Pass
Channel Bandwidth: 20MHz									
Lowest	19.81	19.49	18.87	30.00	0.0957	0.0889	0.0771	3	Pass
Middle	19.67	18.46	17.93	30.00	0.0927	0.0701	0.0621	3	Pass
Highest	19.76	18.95	18.31	30.00	0.0946	0.0785	0.0678	3	Pass

5.4 PEAK-TO-AVERAGE RATIO

Test Requirement:	**LTE Band 2:** FCC 47 CFR Part 24.232(d) **LTE Band 4 & LTE Band 66:** FCC 47 CFR Part 27.50(d)(5) **LTE Band 5:** FCC 47 CFR Part 22.913(a) **LTE Band 7& LTE Band 38:** FCC 47 CFR Part 27.50(d)(5) **LTE Band 12 & Band 17& LTE Band 71:** FCC 47 CFR Part 27.50(d)(5)
Test Method:	KDB 971168 D01v03r01 Section 5.7
Limit:	In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

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.

a) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth
b) Set the number of counts to a value that stabilizes the measured CCDF curve
c) Record the maximum PAPR level associated with a probability of 0.1 %

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup:	Refer to section 4.2.2 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Pass
Test Data:	**Please refer to Appendix A**

5.5 99%&26DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 2.1049(h)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01 Section 4

Limit: No Limit, 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 99% and -26dB bandwidths was also measured and recorded.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: **Please refer to Appendix A**

5.6 BAND EDGE AT ANTENNA TERMINALS

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a)
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)(1)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 7& LTE Band 38: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12 & Band 17& LTE Band 71:: FCC 47 CFR Part 27.53(g)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a):
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(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. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC 47 CFR Part 27.53(m)(4):
For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 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.

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.
For each band edge measurement:
1) Set the spectrum analyzer span to include the block edge frequency.
2) Set a marker to point the corresponding band edge frequency in each test case.
3) Set display line at -13 dBm
4) Set resolution bandwidth to at least 1% of emission bandwidth.
5) Set spectrum analyzer with RMS detector.
6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass
Test Data: **Please refer to Appendix A**

5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a)
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 7& LTE Band 38: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12 & Band 17& LTE Band 71: FCC 47 CFR Part 27.53(g)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g):
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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(m)(4):
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 55 + 10 log(P) dB. The emission limit equal to -25 dBm.

Test Procedure:
The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.2.2 for details.
Instruments Used: Refer to section 3 for details
Test Mode: Link mode
Test Results: Pass
Test Data: **Please refer to Appendix A**

5.8 FIELD STRENGTH OF SPURIOUS RADIATION

Test Requirement: **LTE Band 2:** FCC 47 CFR Part 24.238(a)
LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)
LTE Band 5: FCC 47 CFR Part 22.917(a)
LTE Band 7& LTE Band 38: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12 & Band 17& LTE Band 71: FCC 47 CFR Part 27.53(g)

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009 MHz-30 MHz	Peak	10 kHz	30 KHz	Peak
30 MHz-1 GHz	Quasi-peak	100 kHz	300 KHz	Peak
Above 1 GHz	Peak	1 MHz	3 MHz	Peak

Limits:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a), 27.53(g):
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. The emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(m)(4):
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 55 + 10 log(P) dB. The emission limit equal to -25 dBm.

Test Setup: Refer to section 4.2.1 for details.

Test Procedures: KDB 971168 D01v03r01 Section 7

Equipment Used: Refer to section 3 for details.

Test Result: Pass

The worst measurement data as follows:

5.8.1 LTE Band 2

LTE Band 2_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	679.435	-81.5	11.3	-70.2	-13.0	-57.2	Horizontal
2	899.958	-81.9	14.3	-67.6	-13.0	-54.6	Horizontal
3	986.044	-83.1	14.7	-68.4	-13.0	-55.4	Horizontal
4	3720	-62.7	7.8	-54.9	-13.0	-41.9	Horizontal
5	5580	-66.3	11.4	-54.9	-13.0	-41.9	Horizontal
6	633.328	-81.4	10.5	-71.0	-13.0	-58.0	Vertical
7	776.485	-80.7	12.7	-68.0	-13.0	-55.0	Vertical
8	979.139	-82.4	14.9	-67.6	-13.0	-54.6	Vertical
9	3720	-62.7	7.8	-54.9	-13.0	-41.9	Vertical
10	5580	-64.4	11.4	-53.0	-13.0	-40.0	Vertical
Middle Channel							
1	698.804	-81.9	12.0	-69.9	-13.0	-56.9	Horizontal
2	804.252	-81.7	12.9	-68.8	-13.0	-55.8	Horizontal
3	952	-82.4	14.5	-67.9	-13.0	-54.9	Horizontal
4	3760	-62.5	7.9	-54.7	-13.0	-41.7	Horizontal
5	5640	-62.7	11.4	-51.4	-13.0	-38.4	Horizontal
6	684.226	-82.1	11.4	-70.7	-13.0	-57.7	Vertical
7	809.924	-82.5	12.7	-69.8	-13.0	-56.8	Vertical
8	938.714	-82.3	14.7	-67.6	-13.0	-54.6	Vertical
9	3760	-62.8	7.9	-54.9	-13.0	-41.9	Vertical
10	5640	-62.5	11.4	-51.2	-13.0	-38.2	Vertical
Highest Channel							
1	693.91	-82.0	11.9	-70.2	-13.0	-57.2	Horizontal
2	809.924	-81.6	12.7	-68.9	-13.0	-55.9	Horizontal
3	912.695	-83.2	14.4	-68.8	-13.0	-55.8	Horizontal
4	3800	-62.5	8.0	-54.5	-13.0	-41.5	Horizontal
5	5700	-65.5	11.3	-54.1	-13.0	-41.1	Horizontal
6	646.822	-81.4	10.9	-70.4	-13.0	-57.4	Vertical
7	798.62	-82.3	13.0	-69.3	-13.0	-56.3	Vertical
8	899.958	-83.0	14.3	-68.6	-13.0	-55.6	Vertical
9	3800	-62.7	8.0	-54.7	-13.0	-41.7	Vertical
10	5700	-64.2	11.3	-52.9	-13.0	-39.9	Vertical

5.8.2 LTE Band 4

LTE Band 4_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	598.707	-80.9	9.8	-71.1	-13.0	-58.1	Horizontal
2	689.051	-82.2	11.6	-70.6	-13.0	-57.6	Horizontal
3	938.714	-83.0	14.7	-68.3	-13.0	-55.3	Horizontal
4	3440	-63.5	6.8	-56.8	-13.0	-43.8	Horizontal
5	5160	-63.4	10.0	-53.4	-13.0	-40.4	Horizontal
6	602.929	-81.2	10.0	-71.1	-13.0	-58.1	Vertical
7	781.961	-82.4	12.8	-69.6	-13.0	-56.6	Vertical
8	893.656	-82.7	14.1	-68.6	-13.0	-55.6	Vertical
9	3440	-63.3	6.8	-56.5	-13.0	-43.5	Vertical
10	5160	-62.3	10.0	-52.3	-13.0	-39.3	Vertical
Middle Channel							
1	793.028	-82.2	13.0	-69.2	-13.0	-56.2	Horizontal
2	844.803	-82.0	13.2	-68.8	-13.0	-55.8	Horizontal
3	945.334	-82.4	14.4	-67.9	-13.0	-54.9	Horizontal
4	3465	-63.7	6.9	-56.9	-13.0	-43.9	Horizontal
5	5197.5	-60.8	10.1	-50.7	-13.0	-37.7	Horizontal
6	734.037	-81.3	11.6	-69.7	-13.0	-56.7	Vertical
7	798.62	-82.1	13.0	-69.1	-13.0	-56.1	Vertical
8	979.139	-82.6	14.9	-67.8	-13.0	-54.8	Vertical
9	3465	-63.4	6.9	-56.5	-13.0	-43.5	Vertical
10	5197.5	-55.7	10.1	-45.6	-13.0	-32.6	Vertical
Highest Channel							
1	660.602	-80.8	10.8	-70.0	-13.0	-57.0	Horizontal
2	781.961	-82.3	12.8	-69.6	-13.0	-56.6	Horizontal
3	938.714	-83.2	14.7	-68.4	-13.0	-55.4	Horizontal
4	3490	-63.9	7.0	-56.9	-13.0	-43.9	Horizontal
5	5235	-62.0	10.3	-51.8	-13.0	-38.8	Horizontal
6	703.731	-81.4	11.9	-69.5	-13.0	-56.5	Vertical
7	734.037	-80.9	11.6	-69.3	-13.0	-56.3	Vertical
8	958.714	-82.9	14.5	-68.4	-13.0	-55.4	Vertical
9	3490	-62.3	7.0	-55.3	-13.0	-42.3	Vertical
10	5235	-62.7	10.3	-52.4	-13.0	-39.4	Vertical

5.8.3 LTE Band 5

LTE Band 5_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	642.292	-87.6	39.6	-48.0	-13.0	-35.0	Horizontal
2	765.648	-87.3	41.2	-46.1	-13.0	-33.1	Horizontal
3	899.958	-87.4	42.9	-44.5	-13.0	-31.5	Horizontal
4	1658	-55.5	0.2	-55.3	-13.0	-42.3	Horizontal
5	2487	-60.9	3.8	-57.1	-13.0	-44.1	Horizontal
6	689.051	-90.0	40.4	-49.5	-13.0	-36.5	Vertical
7	781.961	-89.5	41.6	-48.0	-13.0	-35.0	Vertical
8	881.184	-89.0	42.3	-46.8	-13.0	-33.8	Vertical
9	1658	-59.5	0.2	-59.4	-13.0	-46.4	Vertical
10	2487	-61.1	3.8	-57.2	-13.0	-44.2	Vertical
Middle Channel							
1	674.677	-88.0	39.9	-48.1	-13.0	-35.1	Horizontal
2	781.961	-87.3	41.6	-45.8	-13.0	-32.8	Horizontal
3	925.613	-87.5	43.2	-44.3	-13.0	-31.3	Horizontal
4	1673	-61.0	0.3	-60.7	-13.0	-47.7	Horizontal
5	2509.5	-56.4	3.9	-52.5	-13.0	-39.5	Horizontal
6	760.287	-89.1	41.1	-48.0	-13.0	-35.0	Vertical
7	887.398	-88.5	42.4	-46.1	-13.0	-33.1	Vertical
8	932.141	-88.5	43.3	-45.2	-13.0	-32.2	Vertical
9	1673	-59.3	0.3	-59.0	-13.0	-46.0	Vertical
10	2509.5	-56.7	3.9	-52.8	-13.0	-39.8	Vertical
Highest Channel							
1	708.694	-89.0	40.5	-48.5	-13.0	-35.5	Horizontal
2	787.475	-88.5	41.7	-46.8	-13.0	-33.8	Horizontal
3	932.141	-89.2	43.3	-45.8	-13.0	-32.8	Horizontal
4	1688	-60.7	0.4	-60.3	-13.0	-47.3	Horizontal
5	2532	-59.6	3.9	-55.7	-13.0	-42.7	Horizontal
6	674.677	-89.9	39.9	-50.0	-13.0	-37.0	Vertical
7	765.648	-89.4	41.2	-48.2	-13.0	-35.2	Vertical
8	952	-88.9	42.9	-46.0	-13.0	-33.0	Vertical
9	1688	-60.2	0.4	-59.9	-13.0	-46.9	Vertical
10	2532	-58.6	3.9	-54.6	-13.0	-41.6	Vertical

5.8.4 LTE Band 7

LTE Band 7_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	776.485	-81.9	12.7	-69.2	-25.0	-44.2	Horizontal
2	932.141	-83.6	14.9	-68.7	-25.0	-43.7	Horizontal
3	992.997	-83.0	14.8	-68.2	-25.0	-43.2	Horizontal
4	5020	-66.8	9.6	-57.3	-25.0	-32.3	Horizontal
5	7530	-66.0	13.6	-52.4	-25.0	-27.4	Horizontal
6	628.894	-81.6	10.5	-71.1	-25.0	-46.1	Vertical
7	776.485	-81.4	12.7	-68.7	-25.0	-43.7	Vertical
8	912.695	-83.0	14.4	-68.7	-25.0	-43.7	Vertical
9	5020	-63.7	9.6	-54.2	-25.0	-29.2	Vertical
10	7530	-65.2	13.6	-51.6	-25.0	-26.6	Vertical
Middle Channel							
1	693.91	-80.9	11.9	-69.0	-25.0	-44.0	Horizontal
2	787.475	-82.1	12.9	-69.2	-25.0	-44.2	Horizontal
3	887.398	-81.6	13.9	-67.7	-25.0	-42.7	Horizontal
4	5070	-63.8	9.7	-54.1	-25.0	-29.1	Horizontal
5	7605	-66.8	13.7	-53.1	-25.0	-28.1	Horizontal
6	684.226	-80.6	11.4	-69.2	-25.0	-44.2	Vertical
7	925.613	-82.5	14.7	-67.8	-25.0	-42.8	Vertical
8	972.283	-82.3	14.6	-67.7	-25.0	-42.7	Vertical
9	5070	-64.3	9.7	-54.6	-25.0	-29.6	Vertical
10	7605	-66.7	13.7	-52.9	-25.0	-27.9	Vertical
Highest Channel							
1	602.929	-80.8	10.0	-70.8	-25.0	-45.8	Horizontal
2	765.648	-81.1	12.4	-68.7	-25.0	-43.7	Horizontal
3	952	-83.0	14.5	-68.5	-25.0	-43.5	Horizontal
4	5120	-64.9	9.9	-55.1	-25.0	-30.1	Horizontal
5	7680	-66.5	13.9	-52.6	-25.0	-27.6	Horizontal
6	744.427	-81.7	11.9	-69.7	-25.0	-44.7	Vertical
7	833.013	-82.1	13.1	-69.0	-25.0	-44.0	Vertical
8	893.656	-82.7	14.1	-68.6	-25.0	-43.6	Vertical
9	5120	-65.5	9.9	-55.6	-25.0	-30.6	Vertical
10	7680	-65.9	13.9	-52.0	-25.0	-27.0	Vertical

5.8.5 LTE Band 12

LTE Band 12_ 10 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	624.49	-88.3	39.2	-49.1	-13.0	-36.1	Horizontal
2	827.179	-88.3	41.5	-46.7	-13.0	-33.7	Horizontal
3	952.000	-87.4	42.9	-44.5	-13.0	-31.5	Horizontal
4	1408	-59.4	-1.1	-60.4	-13.0	-47.4	Horizontal
5	2112	-62.1	2.4	-59.7	-13.0	-46.7	Horizontal
6	607.181	-88.1	38.9	-49.2	-13.0	-36.2	Vertical
7	798.62	-88.9	41.8	-47.1	-13.0	-34.1	Vertical
8	952.000	-88.2	42.9	-45.3	-13.0	-32.3	Vertical
9	1408	-58.2	-1.1	-59.2	-13.0	-46.2	Vertical
10	2112	-57.8	2.4	-55.5	-13.0	-42.5	Vertical
Middle Channel							
1	615.774	-87.5	39.1	-48.4	-13.0	-35.4	Horizontal
2	875.013	-87.6	42.6	-44.9	-13.0	-31.9	Horizontal
3	952.000	-86.4	42.9	-43.5	-13.0	-30.5	Horizontal
4	1415	-58.2	-1.0	-59.2	-13.0	-46.2	Horizontal
5	2122.5	-60.8	2.4	-58.3	-13.0	-45.3	Horizontal
6	620.117	-89.6	39.2	-50.4	-13.0	-37.4	Vertical
7	815.635	-87.8	41.5	-46.3	-13.0	-33.3	Vertical
8	952.000	-88.3	42.9	-45.4	-13.0	-32.4	Vertical
9	1415	-56.9	-1.0	-57.9	-13.0	-44.9	Vertical
10	2122.5	-59.1	2.4	-56.7	-13.0	-43.7	Vertical
Highest Channel							
1	582.112	-86.9	37.0	-50.0	-13.0	-37.0	Horizontal
2	850.76	-87.8	41.8	-46.1	-13.0	-33.1	Horizontal
3	979.139	-88.1	43.2	-44.9	-13.0	-31.9	Horizontal
4	1422	-58.8	-1.0	-59.8	-13.0	-46.8	Horizontal
5	2133	-61.9	2.4	-59.4	-13.0	-46.4	Horizontal
6	633.328	-90.3	39.3	-51.0	-13.0	-38.0	Vertical
7	771.047	-89.4	41.3	-48.0	-13.0	-35.0	Vertical
8	932.141	-90.0	43.3	-46.7	-13.0	-33.7	Vertical
9	1422	-58.7	-1.0	-59.7	-13.0	-46.7	Vertical
10	2133	-61.9	2.4	-59.4	-13.0	-46.4	Vertical

5.8.6 LTE Band 17

LTE Band 17_ 5 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	624.49	-89.0	39.2	-49.8	-13.0	-36.8	Horizontal
2	754.963	-88.3	40.9	-47.4	-13.0	-34.4	Horizontal
3	925.613	-86.9	43.2	-43.7	-13.0	-30.7	Horizontal
4	1418	-59.8	-1.0	-60.8	-13.0	-47.8	Horizontal
5	2127	-61.4	2.4	-59.0	-13.0	-46.0	Horizontal
6	602.929	-87.7	38.9	-48.8	-13.0	-35.8	Vertical
7	771.047	-87.8	41.3	-46.5	-13.0	-33.5	Vertical
8	899.958	-87.0	42.9	-44.1	-13.0	-31.1	Vertical
9	1418	-58.7	-1.0	-59.7	-13.0	-46.7	Vertical
10	2127	-61.3	2.4	-58.9	-13.0	-45.9	Vertical
Middle Channel							
1	516.565	-87.8	36.9	-51.0	-13.0	-38.0	Horizontal
2	887.398	-86.9	42.4	-44.5	-13.0	-31.5	Horizontal
3	952.000	-87.2	42.9	-44.2	-13.0	-31.2	Horizontal
4	1420	-59.3	-1.0	-60.3	-13.0	-47.3	Horizontal
5	2130	-61.2	2.4	-58.8	-13.0	-45.8	Horizontal
6	531.291	-87.1	36.9	-50.3	-13.0	-37.3	Vertical
7	646.822	-86.7	39.8	-47.0	-13.0	-34.0	Vertical
8	912.695	-86.3	42.9	-43.3	-13.0	-30.3	Vertical
9	1420	-59.4	-1.0	-60.4	-13.0	-47.4	Vertical
10	2130	-60.2	2.4	-57.8	-13.0	-44.8	Vertical
Highest Channel							
1	887.398	-87.1	42.4	-44.6	-13.0	-31.6	Horizontal
2	945.334	-86.2	42.9	-43.3	-13.0	-30.3	Horizontal
3	992.997	-86.3	43.2	-43.1	-13.0	-30.1	Horizontal
4	1422	-59.2	-1.0	-60.2	-13.0	-47.2	Horizontal
5	2133	-60.7	2.4	-58.2	-13.0	-45.2	Horizontal
6	655.977	-88.1	39.9	-48.2	-13.0	-35.2	Vertical
7	899.958	-87.9	42.9	-45.0	-13.0	-32.0	Vertical
8	992.997	-86.9	43.2	-43.7	-13.0	-30.7	Vertical
9	1422	-57.6	-1.0	-58.5	-13.0	-45.5	Vertical
10	2133	-61.2	2.4	-58.8	-13.0	-45.8	Vertical

5.8.7 LTE Band 38

LTE Band 38_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	646.822	-81.4	10.9	-70.5	-25.0	-45.5	Horizontal
2	679.435	-81.3	11.3	-70.0	-25.0	-45.0	Horizontal
3	899.958	-82.8	14.3	-68.4	-25.0	-43.4	Horizontal
4	5160	-64.9	10.0	-55.0	-25.0	-30.0	Horizontal
5	7740	-66.9	14.0	-52.9	-25.0	-27.9	Horizontal
6	651.383	-82.0	11.0	-71.0	-25.0	-46.0	Vertical
7	698.804	-82.3	12.0	-70.3	-25.0	-45.3	Vertical
8	906.304	-83.1	14.4	-68.7	-25.0	-43.7	Vertical
9	5160	-65.2	10.0	-55.2	-25.0	-30.2	Vertical
10	7740	-66.7	14.0	-52.7	-25.0	-27.7	Vertical
Middle Channel							
1	651.383	-80.8	11.0	-69.8	-25.0	-44.8	Horizontal
2	827.179	-81.9	12.8	-69.1	-25.0	-44.1	Horizontal
3	925.613	-83.2	14.7	-68.5	-25.0	-43.5	Horizontal
4	5190	-65.3	10.1	-55.3	-25.0	-30.3	Horizontal
5	7785	-66.4	14.1	-52.3	-25.0	-27.3	Horizontal
6	646.822	-81.2	10.9	-70.3	-25.0	-45.3	Vertical
7	906.304	-83.3	14.4	-68.9	-25.0	-43.9	Vertical
8	965.474	-82.8	14.5	-68.3	-25.0	-43.3	Vertical
9	5190	-64.9	10.1	-54.9	-25.0	-29.9	Vertical
10	7785	-68.5	14.1	-54.5	-25.0	-29.5	Vertical
Highest Channel							
1	776.485	-82.6	12.7	-69.9	-25.0	-44.9	Horizontal
2	868.886	-82.6	13.7	-68.9	-25.0	-43.9	Horizontal
3	906.304	-82.6	14.4	-68.2	-25.0	-43.2	Horizontal
4	5220	-65.0	10.2	-54.8	-25.0	-29.8	Horizontal
5	7830	-66.7	14.1	-52.6	-25.0	-27.6	Horizontal
6	611.462	-80.8	10.1	-70.7	-25.0	-45.7	Vertical
7	703.731	-82.2	11.9	-70.3	-25.0	-45.3	Vertical
8	899.958	-82.8	14.3	-68.5	-25.0	-43.5	Vertical
9	5220	-67.0	10.2	-56.8	-25.0	-31.8	Vertical
10	7830	-66.6	14.1	-52.4	-25.0	-27.4	Vertical

5.8.8 LTE Band 66

LTE Band 66_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	693.91	-81.2	11.9	-69.3	-13.0	-56.3	Horizontal
2	793.028	-82.6	13.0	-69.6	-13.0	-56.6	Horizontal
3	899.958	-83.2	14.3	-68.9	-13.0	-55.9	Horizontal
4	3440	-64.8	6.8	-58.0	-13.0	-45.0	Horizontal
5	5160	-65.5	10.0	-55.5	-13.0	-42.5	Horizontal
6	723.793	-80.3	11.6	-68.7	-13.0	-55.7	Vertical
7	868.886	-81.7	13.7	-68.0	-13.0	-55.0	Vertical
8	925.613	-83.0	14.7	-68.3	-13.0	-55.3	Vertical
9	3440	-65.4	6.8	-58.6	-13.0	-45.6	Vertical
10	5160	-65.4	10.0	-55.5	-13.0	-42.5	Vertical
Middle Channel							
1	771.047	-81.9	12.5	-69.4	-13.0	-56.4	Horizontal
2	881.184	-82.6	13.7	-68.9	-13.0	-55.9	Horizontal
3	938.714	-83.3	14.7	-68.6	-13.0	-55.6	Horizontal
4	3490	-64.2	7.0	-57.2	-13.0	-44.2	Horizontal
5	5235	-64.7	10.3	-54.4	-13.0	-41.4	Horizontal
6	660.602	-81.4	10.8	-70.7	-13.0	-57.7	Vertical
7	708.694	-81.8	11.7	-70.1	-13.0	-57.1	Vertical
8	906.304	-82.8	14.4	-68.4	-13.0	-55.4	Vertical
9	3490	-65.8	7.0	-58.8	-13.0	-45.8	Vertical
10	5235	-64.3	10.3	-54.1	-13.0	-41.1	Vertical
Highest Channel							
1	624.49	-81.1	10.3	-70.7	-13.0	-57.7	Horizontal
2	765.648	-82.5	12.4	-70.1	-13.0	-57.1	Horizontal
3	925.613	-82.7	14.7	-68.0	-13.0	-55.0	Horizontal
4	3540	-65.4	7.2	-58.3	-13.0	-45.3	Horizontal
5	5310	-67.3	10.6	-56.7	-13.0	-43.7	Horizontal
6	602.929	-81.5	10.0	-71.5	-13.0	-58.5	Vertical
7	771.047	-82.5	12.5	-70.0	-13.0	-57.0	Vertical
8	887.398	-81.8	13.9	-67.9	-13.0	-54.9	Vertical
9	3540	-66.4	7.2	-59.3	-13.0	-46.3	Vertical
10	5310	-66.1	10.6	-55.5	-13.0	-42.5	Vertical

5.8.9 LTE Band 71

LTE Band 71_ 20 MHz_ QPSK							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
Lowest Channel							
1	628.894	-88.0	39.4	-48.6	-13.0	-35.6	Horizontal
2	781.961	-87.0	41.6	-45.5	-13.0	-32.5	Horizontal
3	979.139	-87.7	43.2	-44.5	-13.0	-31.5	Horizontal
4	1346	-58.4	-1.3	-59.7	-13.0	-46.7	Horizontal
5	2019	-60.8	2.1	-58.7	-13.0	-45.7	Horizontal
6	642.292	-86.3	39.6	-46.7	-13.0	-33.7	Vertical
7	868.886	-85.6	42.3	-43.3	-13.0	-30.3	Vertical
8	893.656	-86.0	42.7	-43.2	-13.0	-30.2	Vertical
9	1346	-57.1	-1.3	-58.4	-13.0	-45.4	Vertical
10	2019	-60.3	2.1	-58.2	-13.0	-45.2	Vertical
Middle Channel							
1	793.028	-85.8	41.8	-44.0	-13.0	-31.0	Horizontal
2	844.803	-86.1	41.9	-44.3	-13.0	-31.3	Horizontal
3	992.997	-86.2	43.2	-43.0	-13.0	-30.0	Horizontal
4	1366	-60.3	-1.2	-61.6	-13.0	-48.6	Horizontal
5	2049	-63.8	2.2	-61.6	-13.0	-48.6	Horizontal
6	602.929	-87.8	38.9	-48.9	-13.0	-35.9	Vertical
7	760.287	-87.9	41.1	-46.8	-13.0	-33.8	Vertical
8	945.334	-87.5	42.9	-44.6	-13.0	-31.6	Vertical
9	1366	-58.6	-1.2	-59.9	-13.0	-46.9	Vertical
10	2049	-62.0	2.2	-59.8	-13.0	-46.8	Vertical
Highest Channel							
1	615.774	-88.0	39.1	-48.9	-13.0	-35.9	Horizontal
2	776.485	-87.5	41.5	-46.0	-13.0	-33.0	Horizontal
3	906.304	-87.6	42.9	-44.7	-13.0	-31.7	Horizontal
4	1376	-61.2	-1.2	-62.4	-13.0	-49.4	Horizontal
5	2064	-63.7	2.3	-61.5	-13.0	-48.5	Horizontal
6	615.774	-87.5	39.1	-48.4	-13.0	-35.4	Vertical
7	771.047	-87.4	41.3	-46.0	-13.0	-33.0	Vertical
8	952.000	-86.8	42.9	-43.9	-13.0	-30.9	Vertical
9	1376	-59.5	-1.2	-60.7	-13.0	-47.7	Vertical
10	2064	-61.5	2.3	-59.3	-13.0	-46.3	Vertical

Remark:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit

5.9 FREQUENCY STABILITY

Test Requirement: FCC 47 CFR Part 2.1055 &
FCC 47 CFR Part 22.355 &
FCC 47 CFR Part 24.235 &
FCC 47 CFR Part 27.54

Test Method: ANSI C63.26-2015 & KDB 971168 D01v03r01

Limits:

FCC 47 CFR Part 22.355, FCC 47 CFR Par 90.213

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

FCC 47 CFR Part 24.235, FCC 47 CFR Part 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Setup: Refer to section 4.2.2 for details.

Test Procedures:

1) Use CMW 500 with Frequency Error measurement capability.
   a) Temp. = −30° to + 50°Ca
   b) Voltage =low voltage, 3.4 Vdc, Normal, 3.87 Vdc and High voltage, 4.45 Vdc.
2) Frequency Stability vs Temperature:

The EUT is place inside a temperature chamber. The temperature is set to 20ºC and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50ºC is reached.

3) Frequency Stability vs Voltage:

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

Equipment Used: Refer to section 3 for details.

Test Result: Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2 / 20MHz / Full RB							
QPSK	18900 / 1880.0	VL	TN	-24.4	-0.0130	Note 1	Pass
		VN		-25.26	-0.0134		Pass
		VH		-15.3	-0.0081		Pass
		VN	50	-26.5	-0.0141		Pass
			40	-24.69	-0.0131		Pass
			30	-23.68	-0.0126		Pass
			20	-25.26	-0.0134		Pass
			10	-23.75	-0.0126		Pass
			0	-17.8	-0.0095		Pass
			-10	-12.1	-0.0064		Pass
			-20	-13.42	-0.0071		Pass
			-30	-10.8	-0.0057		Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 4 / 20MHz / Full RB							
QPSK	20175 / 1732.5	VL	TN	-8.50	-0.0049	Note 1	Pass
		VN		-11.10	-0.0064		Pass
		VH		-15.26	-0.0088		Pass
		VN	50	-9.95	-0.0057		Pass
			40	-7.91	-0.0046		Pass
			30	-12.86	-0.0074		Pass
			20	-11.10	-0.0064		Pass
			10	-9.24	-0.0053		Pass
			0	-5.36	-0.0031		Pass
			-10	-2.62	-0.0015		Pass
			-20	-2.02	-0.0012		Pass
			-30	-4.23	-0.0024		Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 5 / 10MHz / Full RB							
QPSK	20525 / 836.5	VL	TN	2.21	0.0026	± 2.5	Pass
		VN		1.77	0.0021	± 2.5	Pass
		VH		-6.3	-0.0075	± 2.5	Pass
		VN	50	2.12	0.0025	± 2.5	Pass
			40	-4.58	-0.0055	± 2.5	Pass
			30	-8.6	-0.0103	± 2.5	Pass
			20	1.77	0.0021	± 2.5	Pass
			10	-4.36	-0.0052	± 2.5	Pass
			0	-2.02	-0.0024	± 2.5	Pass
			-10	-2.72	-0.0033	± 2.5	Pass
			-20	3.32	0.0040	± 2.5	Pass
			-30	2.33	0.0028	± 2.5	Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
LTE Band 7 / 20MHz / Full RB							
QPSK	21100 / 2535	VL	TN	-19.1	-0.0110	N/A	Pass
		VN		-2.18	-0.0013		Pass
		VH		-14.00	-0.0081		Pass
		VN	50	-16.31	-0.0094		Pass
			40	-12.44	-0.0072		Pass
			30	-11.81	-0.0068		Pass
			20	-2.18	-0.0013		Pass
			10	-7.07	-0.0041		Pass
			0	-8.55	-0.0049		Pass
			-10	-3.89	-0.0022		Pass
			-20	-8.31	-0.0048		Pass
			-30	-5.09	-0.0029		Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(℃)	(Hz)	(ppm)	(ppm)	
LTE Band 12 / 10MHz / Full RB							
QPSK	23095 / 707.5	VL	TN	-6.58	-0.0093	Note 1	Pass
		VN		-10.63	-1.5025		Pass
		VH		-3.26	-0.0046		Pass
		VN	50	-9.46	-0.0134		Pass
			40	-9.24	-0.0131		Pass
			30	-10.15	-0.0143		Pass
			20	-10.73	-0.0152		Pass
			10	-13.75	-0.0194		Pass
			0	-10.26	-0.0145		Pass
			-10	-14.31	-0.0202		Pass
			-20	-10.44	-0.0148		Pass
			-30	-11.18	-0.0158		Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 17 / 10MHz / Full RB							
QPSK	23790 / 710	VL	TN	-13.75	-0.0194	Note 1	Pass
		VN		-15.85	-0.0223		Pass
		VH		-2.06	-0.0029		Pass
		VN	50	-8.90	-0.0125		Pass
			40	-10.10	-0.0142		Pass
			30	-11.38	-0.0160		Pass
			20	-15.85	-0.0223		Pass
			10	-8.24	-0.0116		Pass
			0	-4.36	-0.0061		Pass
			-10	-5.20	-0.0073		Pass
			-20	-2.72	-0.0038		Pass
			-30	-4.32	-0.0061		Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 38/ 20MHz / Full RB							
QPSK	37850 / 2580	VL	TN	16.55	0.0096	Note 1	Pass
		VN		-16.85	-0.0097		Pass
		VH		14.52	0.0084		Pass
		VN	50	17.82	0.0103		Pass
			40	15.59	0.0090		Pass
			30	-12.38	-0.0071		Pass
			20	-16.85	-0.0097		Pass
			10	-9.62	-0.0056		Pass
			0	-17.71	-0.0102		Pass
			-10	-15.85	-0.0091		Pass
			-20	-13.24	-0.0076		Pass
			-30	-14.63	-0.0084		Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 66/ 20MHz / Full RB							
QPSK	132322 / 1745	VL	TN	-15.15	-0.0087	Note 1	Pass
		VN		-12.21	-0.0070		Pass
		VH		-10.71	-0.0061		Pass
		VN	50	-8.13	-0.0047		Pass
			40	-7.49	-0.0043		Pass
			30	-5.20	-0.0030		Pass
			20	-12.20	-0.0070		Pass
			10	-8.07	-0.0046		Pass
			0	-5.45	-0.0031		Pass
			-10	-7.31	-0.0042		Pass
			-20	-6.05	-0.0035		Pass
			-30	-3.79	-0.0022		Pass

Modulation	Channel/ Frequency (MHz)	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Pass/ Fail
LTE Band 71 / 20MHz / Full RB							
QPSK	133322 / 683.0	VL	TN	-4.85	-0.0028	Note 1	Pass
		VN		-9.83	-0.0057		Pass
		VH		-1.62	-0.0009		Pass
		VN	50	-10.87	-0.0063		Pass
			40	-13.35	-0.0077		Pass
			30	-12.59	-0.0073		Pass
			20	-11.83	-0.0068		Pass
			10	-11.38	-0.0066		Pass
			0	-10.26	-0.0059		Pass
			-10	-15.94	-0.0092		Pass
			-20	-18.00	-0.0104		Pass
			-30	-16.68	-0.0096		Pass

APPENDIX A RF TEST DATA

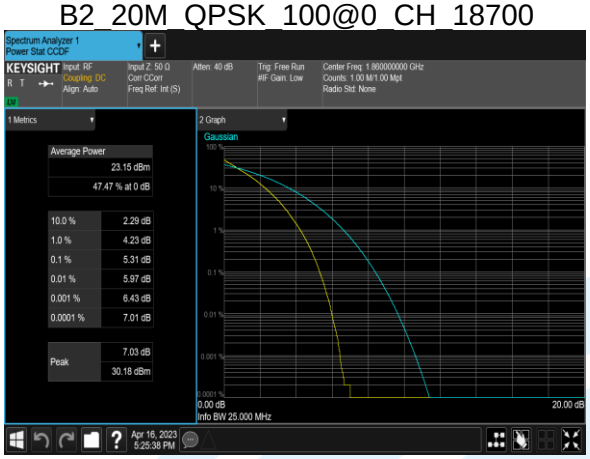
A.1 LTE BAND 2

Peak to Average Ratio

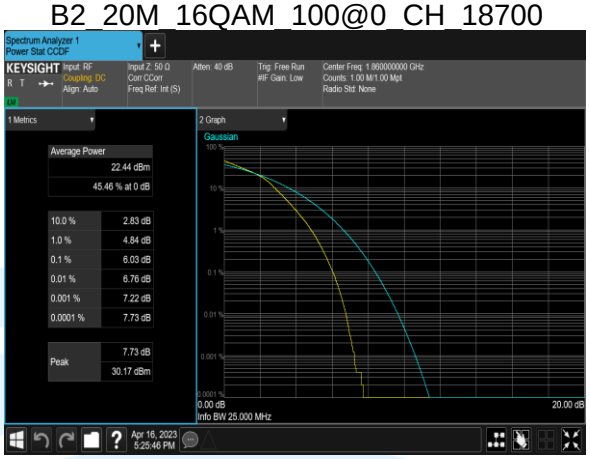
Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
2	20.0	18700	1860.0	QPSK	100@0	5.31	13	PASS
2	20.0	18700	1860.0	16QAM	100@0	6.03	13	PASS
2	20.0	18900	1880.0	QPSK	100@0	5.74	13	PASS
2	20.0	18900	1880.0	16QAM	100@0	6.43	13	PASS
2	20.0	19100	1900.0	QPSK	100@0	5.42	13	PASS
2	20.0	19100	1900.0	16QAM	100@0	6.10	13	PASS
2	15.0	18675	1857.5	QPSK	75@0	5.16	13	PASS
2	15.0	18675	1857.5	16QAM	75@0	5.96	13	PASS
2	15.0	18900	1880.0	QPSK	75@0	5.49	13	PASS
2	15.0	18900	1880.0	16QAM	75@0	6.22	13	PASS
2	15.0	19125	1902.5	QPSK	75@0	5.21	13	PASS
2	15.0	19125	1902.5	16QAM	75@0	5.98	13	PASS
2	10.0	18650	1855.0	QPSK	50@0	5.37	13	PASS
2	10.0	18650	1855.0	16QAM	50@0	6.07	13	PASS
2	10.0	18900	1880.0	QPSK	50@0	5.69	13	PASS
2	10.0	18900	1880.0	16QAM	50@0	6.42	13	PASS
2	10.0	19150	1905.0	QPSK	50@0	5.45	13	PASS
2	10.0	19150	1905.0	16QAM	50@0	6.17	13	PASS
2	5.0	18625	1852.5	QPSK	25@0	5.42	13	PASS
2	5.0	18625	1852.5	16QAM	25@0	6.05	13	PASS
2	5.0	18900	1880.0	QPSK	25@0	5.66	13	PASS
2	5.0	18900	1880.0	16QAM	25@0	6.36	13	PASS
2	5.0	19175	1907.5	QPSK	25@0	5.52	13	PASS
2	5.0	19175	1907.5	16QAM	25@0	6.14	13	PASS
2	3.0	18615	1851.5	QPSK	15@0	5.43	13	PASS
2	3.0	18615	1851.5	16QAM	15@0	6.17	13	PASS
2	3.0	18900	1880.0	QPSK	15@0	5.58	13	PASS
2	3.0	18900	1880.0	16QAM	15@0	6.36	13	PASS
2	3.0	19185	1908.5	QPSK	15@0	5.59	13	PASS
2	3.0	19185	1908.5	16QAM	15@0	6.30	13	PASS
2	1.4	18607	1850.7	QPSK	6@0	5.38	13	PASS
2	1.4	18607	1850.7	16QAM	6@0	6.01	13	PASS
2	1.4	18900	1880.0	QPSK	6@0	5.66	13	PASS
2	1.4	18900	1880.0	16QAM	6@0	6.46	13	PASS
2	1.4	19193	1909.3	QPSK	6@0	5.53	13	PASS
2	1.4	19193	1909.3	16QAM	6@0	6.26	13	PASS
2	20.0	18700	1860.0	64QAM	100@0	6.05	13	PASS
2	20.0	18900	1880.0	64QAM	100@0	6.45	13	PASS
2	20.0	19100	1900.0	64QAM	100@0	6.14	13	PASS
2	15.0	18675	1857.5	64QAM	75@0	5.96	13	PASS
2	15.0	18900	1880.0	64QAM	75@0	6.24	13	PASS
2	15.0	19125	1902.5	64QAM	75@0	6.01	13	PASS
2	10.0	18650	1855.0	64QAM	50@0	6.08	13	PASS
2	10.0	18900	1880.0	64QAM	50@0	6.42	13	PASS
2	10.0	19150	1905.0	64QAM	50@0	6.16	13	PASS
2	5.0	18625	1852.5	64QAM	25@0	6.06	13	PASS
2	5.0	18900	1880.0	64QAM	25@0	6.35	13	PASS
2	5.0	19175	1907.5	64QAM	25@0	6.17	13	PASS
2	3.0	18615	1851.5	64QAM	15@0	6.18	13	PASS
2	3.0	18900	1880.0	64QAM	15@0	6.38	13	PASS
2	3.0	19185	1908.5	64QAM	15@0	6.30	13	PASS
2	1.4	18607	1850.7	64QAM	6@0	6.09	13	PASS
2	1.4	18900	1880.0	64QAM	6@0	6.44	13	PASS
2	1.4	19193	1909.3	64QAM	6@0	6.32	13	PASS

Test Graphs

B2_20M_QPSK_100@0_CH_18700



B2_20M_16QAM_100@0_CH_18700

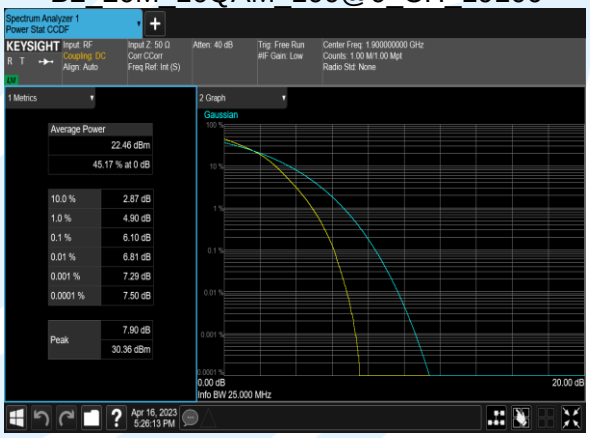


B2_20M_QPSK_100@0_CH_18900

B2_20M_16QAM_100@0_CH_18900

B2_20M_QPSK_100@0_CH_19100

B2_20M_16QAM_100@0_CH_19100



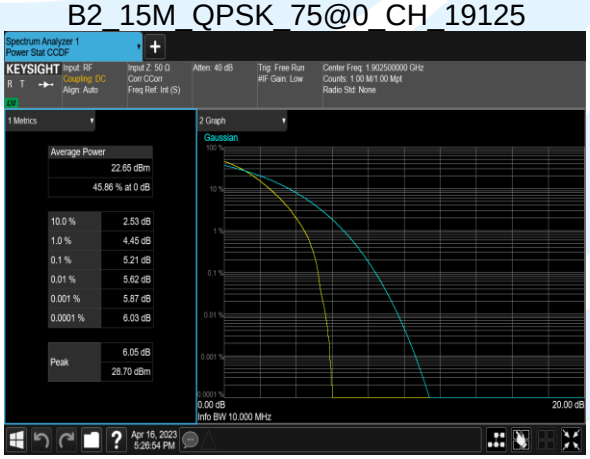
B2_15M_QPSK_75@0_CH_18675

B2_15M_16QAM_75@0_CH_18675

B2_15M_QPSK_75@0_CH_18900

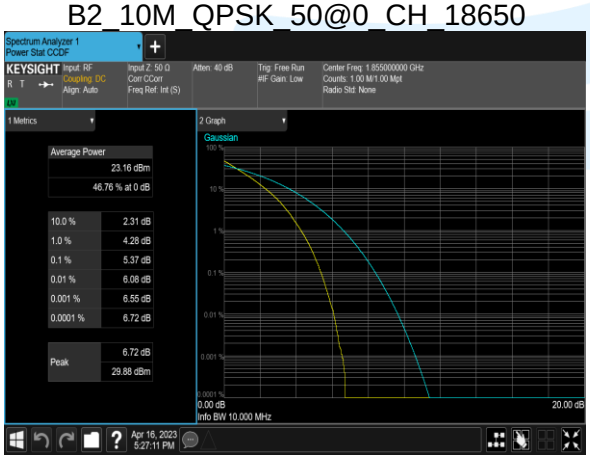
B2_15M_16QAM_75@0_CH_18900

B2_15M_QPSK_75@0_CH_19125



B2_15M_16QAM_75@0_CH_19125

B2_10M_QPSK_50@0_CH_18650



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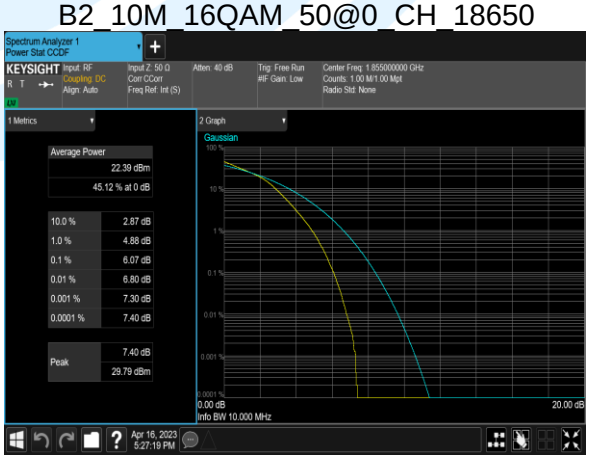


B2_10M_QPSK_50@0_CH_18900

B2_10M_16QAM_50@0_CH_18900

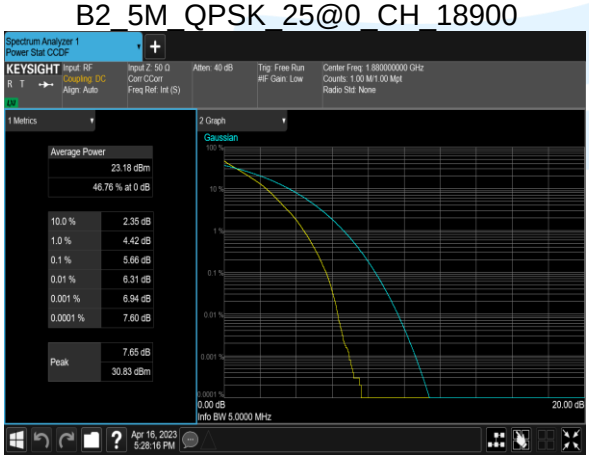
B2_10M_QPSK_50@0_CH_19150

B2_10M_16QAM_50@0_CH_19150

B2_5M_QPSK_25@0_CH_18625

B2_5M_16QAM_25@0_CH_18625

B2_5M_QPSK_25@0_CH_18900



B2_5M_16QAM_25@0_CH_18900

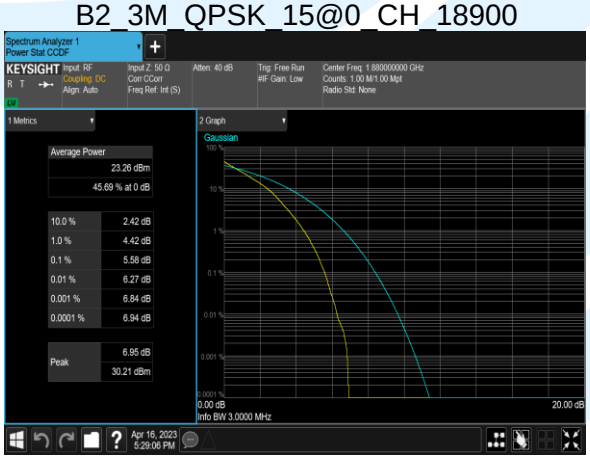
B2_5M_QPSK_25@0_CH_19175

B2_5M_16QAM_25@0_CH_19175

B2_3M_QPSK_15@0_CH_18615

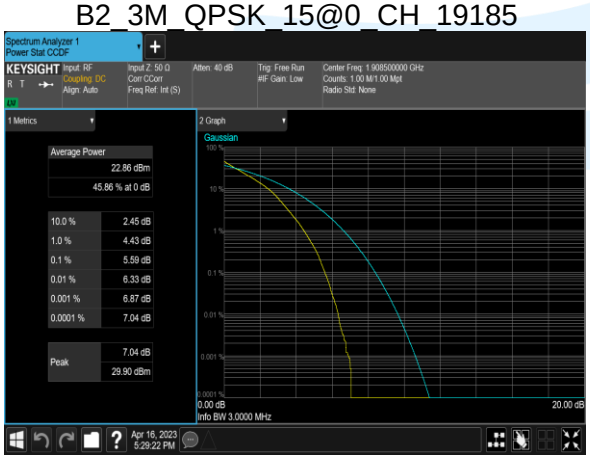
B2_3M_16QAM_15@0_CH_18615

B2_3M_QPSK_15@0_CH_18900



B2_3M_16QAM_15@0_CH_18900

B2_3M_QPSK_15@0_CH_19185



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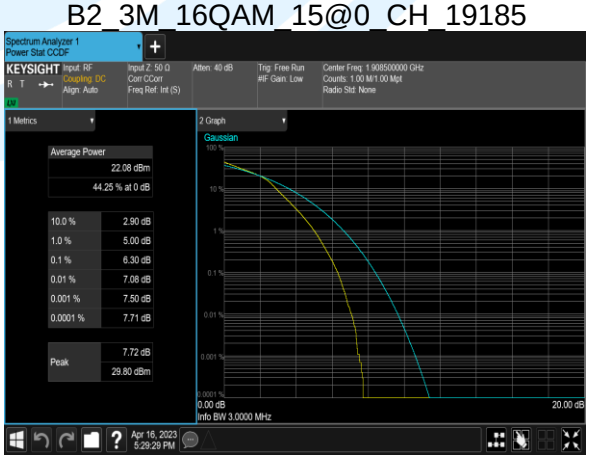


B2_1.4M_QPSK_6@0_CH_18607

B2_1.4M_16QAM_6@0_CH_18607

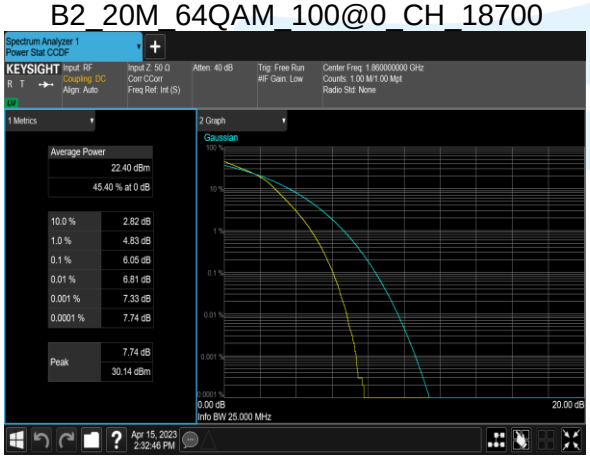
B2_1.4M_QPSK_6@0_CH_18900

B2_1.4M_16QAM_6@0_CH_18900

B2_1.4M_QPSK_6@0_CH_19193

B2_1.4M_16QAM_6@0_CH_19193

B2_20M_64QAM_100@0_CH_18700



B2_20M_64QAM_100@0_CH_18900

B2_20M_64QAM_100@0_CH_19100

B2_15M_64QAM_75@0_CH_18675

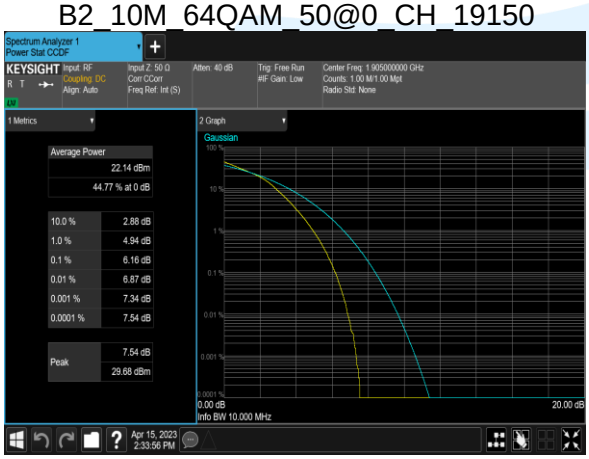
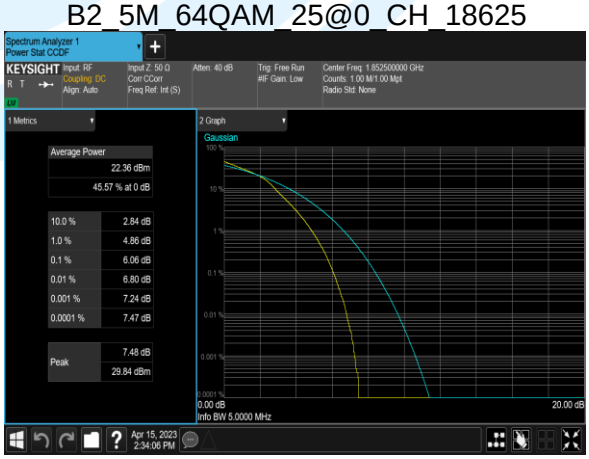
B2_15M_64QAM_75@0_CH_18900

B2_15M_64QAM_75@0_CH_19125

B2_10M_64QAM_50@0_CH_18650

B2_10M_64QAM_50@0_CH_18900

B2_10M_64QAM_50@0_CH_19150



B2_5M_64QAM_25@0_CH_18625