

FCC TEST REPORT

Product Name: Smart Phone

Trade Mark: BLU

Model No.: G93

Report Number: 2304184880RFM-2

Test Standards: FCC 47 CFR Part 22
FCC 47 CFR Part 24
FCC 47 CFR Part 27

FCC ID: YHLBLUG93WW

Test Result: PASS

Date of Issue: June 2, 2023

Prepared for:

BLU Products, Inc.

8600 NW 36th Street, Suite #200 Doral, FL 33166

Prepared by:

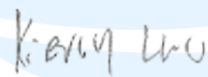
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UTTR-RF-FCC4G-V1.1

Version

Version No.	Date	Description
V1.0	June 2, 2023	Original

**Shenzhen UnionTrust Quality and Technology Co., Ltd.**

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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.:	G93			
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 13/ Band 17/ Band 66/ Band 71		
	2.4 GHz ISM Band:	IEEE 802.11b/g/n		
		Bluetooth 5.1		
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac	
		5 250 MHz to 5 350 MHz	IEEE 802.11a/n/ac	
		5 470 MHz to 5 725 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		
NFC:	13.553 MHz to 13.567 MHz			
Software Version:	Android T (Provided by the customer)			
Hardware Version:	V02 (Provided by the customer)			
Sample Received Date:	April 18, 2023			
Sample Tested Date:	April 18, 2023 to May 24, 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-KB-2009
Input:	100-240 V~50/60 Hz 0.6 A
Output:	9.0 V $\overline{\text{---}}$ 2000 mA

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

Battery	
Model No.:	C896550500P
Battery Type:	Lithium-ion Polymer Battery
Rated Voltage:	3.87 Vdc
Typical Capacity:	5000 mAh
Rated Capacity:	4900 mAh

Earphone	
	1.2 Meter

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	Single Carrier: LTE Band 2/4/5/7/12/13/17/66/71	
	Carrier Aggregation: LTE CA_7C	
Type of Modulation:	QPSK, 16QAM, 64QAM	
Antenna Type: (Provided by the customer)	Integral Antenna	
Antenna Gain: (Provided by the customer)	LTE Band 2:	-0.53 dBi
	LTE Band 4:	-3.8 dBi
	LTE Band 5:	-4.16 dBi
	LTE Band 7:	-6.6 dBi
	LTE Band 12:	-4.68 dBi
	LTE Band 13:	-4.77dBi
	LTE Band 17:	-4.79 dBi
	LTE Band 66:	-3.8 dBi
	LTE Band 71:	-4.97 dBi
Sample No.:	Radiated: S202304181366-ZJA05/6	
	Conducted: S202304181366-ZJA03/6	
Normal Test Voltage:	3.87 Vdc	
Extreme Test Voltage:	3.435 to 4.45Vdc	
Extreme Test Temperature:	-30 °C to +50 °C	

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Summary of Results:								
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)	
2	1.4	QPSK	1850.7-1909.3	22.62	22.09	0.1618	1.0827	1M08G7D
		16QAM		21.76	21.23	0.1327	1.0806	1M08W7D
		64QAM		21.24	20.71	0.1178	1.0794	1M08W7D
	3	QPSK	1851.5-1908.5	22.50	21.97	0.1574	2.6732	2M67G7D
		16QAM		21.95	21.42	0.1387	2.6748	2M67W7D
		64QAM		21.56	21.03	0.1268	2.6743	2M67W7D
	5	QPSK	1852.5-1907.5	22.73	22.20	0.1660	4.4658	4M47G7D
		16QAM		21.87	21.34	0.1361	4.4577	4M46W7D
		64QAM		21.38	20.85	0.1216	4.4702	4M47W7D
	10	QPSK	1855.0-1905.0	22.80	22.27	0.1687	8.9335	8M93G7D
		16QAM		22.30	21.77	0.1503	8.9649	8M96W7D
		64QAM		21.84	21.31	0.1352	8.9374	8M94W7D
	15	QPSK	1857.5-1902.5	22.81	22.28	0.1690	13.411	13M4G7D
		16QAM		22.33	21.80	0.1514	13.429	13M4W7D
		64QAM		21.85	21.32	0.1355	13.398	13M4W7D
	20	QPSK	1860.0-1900.0	22.89	22.36	0.1722	17.864	17M9G7D
		16QAM		22.34	21.81	0.1517	17.87	17M9W7D
		64QAM		21.98	21.45	0.1396	17.87	17M9W7D
4	1.4	QPSK	1710.7-1754.3	22.82	19.02	0.0798	1.0809	1M08G7D
		16QAM		21.97	18.17	0.0656	1.0791	1M08W7D
		64QAM		21.41	17.61	0.0577	1.0815	1M08W7D
	3	QPSK	1711.5-1753.5	22.61	18.81	0.0760	2.6777	2M68G7D
		16QAM		21.99	18.19	0.0659	2.6721	2M67W7D
		64QAM		21.44	17.64	0.0581	2.6754	2M68W7D
	5	QPSK	1712.5-1752.5	22.83	19.03	0.0800	4.4662	4M47G7D
		16QAM		21.84	18.04	0.0637	4.4716	4M47W7D
		64QAM		21.39	17.59	0.0574	4.4721	4M47W7D
	10	QPSK	1715-1750	22.90	19.10	0.0813	8.9365	8M94G7D
		16QAM		21.86	18.06	0.0640	8.9402	8M94W7D
		64QAM		21.81	18.01	0.0632	8.9384	8M94W7D
	15	QPSK	1717.5-1747.5	22.83	19.03	0.0800	13.427	13M4G7D
		16QAM		22.31	18.51	0.0710	13.416	13M4W7D
		64QAM		21.79	17.99	0.0630	13.433	13M4W7D
	20	QPSK	1720-1745	22.91	19.11	0.0815	17.846	17M8G7D
		16QAM		22.40	18.60	0.0724	17.893	17M9W7D
		64QAM		21.83	18.03	0.0635	17.877	17M9W7D

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Bands	BW	Modulation	Frequency Range	Max RF Output Power (dBm)		ERP/EIRP (W)	99% BW (MHz)	Emission Designator
	(MHz)		(MHz)	Conducted (Average)	ERP/EIRP (Average)			
5	1.4	QPSK	824.7-848.3	22.65	16.34	0.0431	1.0813	1M08G7D
		16QAM		21.77	15.46	0.0352	1.0806	1M08W7D
		64QAM		20.97	14.66	0.0292	1.0798	1M08W7D
	3	QPSK	825.5-847.5	22.65	16.34	0.0431	2.6782	2M68G7D
		16QAM		21.77	15.46	0.0352	2.6707	2M67W7D
		64QAM		20.97	14.66	0.0292	2.6717	2M67W7D
	5	QPSK	826.5-846.5	22.75	16.44	0.0441	4.4634	4M46G7D
		16QAM		21.92	15.61	0.0364	4.4648	4M46W7D
		64QAM		20.59	14.28	0.0268	4.4698	4M47W7D
	10	QPSK	829-844	22.77	16.46	0.0443	8.9353	8M94G7D
		16QAM		22.22	15.91	0.0390	8.9331	8M93W7D
		64QAM		20.98	14.67	0.0293	8.9335	8M93W7D
7	5	QPSK	2502.5-2567.5	22.87	16.27	0.0424	4.4701	4M47G7D
		16QAM		21.94	15.34	0.0342	4.464	4M46W7D
		64QAM		21.07	14.47	0.0280	4.4646	4M46W7D
	10	QPSK	2505-2565	22.81	16.21	0.0418	8.9425	8M94G7D
		16QAM		22.21	15.61	0.0364	8.9395	8M94W7D
		64QAM		21.38	14.78	0.0301	8.9405	8M94W7D
	15	QPSK	2507.5-2562.5	22.81	16.21	0.0418	13.415	13M4G7D
		16QAM		22.23	15.63	0.0366	13.424	13M4W7D
		64QAM		21.40	14.80	0.0302	13.4	13M4W7D
	20	QPSK	2510-2560	22.89	16.29	0.0426	17.849	17M8G7D
		16QAM		22.48	15.88	0.0387	17.847	17M8W7D
		64QAM		21.39	14.79	0.0301	17.854	17M9W7D
12	1.4	QPSK	699.7-715.3	22.75	15.92	0.0391	1.0796	1M08G7D
		16QAM		21.94	15.11	0.0324	1.0795	1M08W7D
		64QAM		21.44	14.61	0.0289	1.0804	1M08W7D
	3	QPSK	700.5-714.5	22.62	15.79	0.0379	2.6804	2M68G7D
		16QAM		22.09	15.26	0.0336	2.6737	2M67W7D
		64QAM		21.67	14.84	0.0305	2.6721	2M67W7D
	5	QPSK	701.5-713.5	22.83	16.00	0.0398	4.4692	4M47G7D
		16QAM		21.93	15.10	0.0324	4.4664	4M47W7D
		64QAM		21.42	14.59	0.0288	4.4649	4M46W7D
	10	QPSK	704-711	22.87	16.04	0.0402	8.9413	8M94G7D
		16QAM		22.35	15.52	0.0356	8.9696	8M97W7D
		64QAM		21.94	15.11	0.0324	8.9579	8M96W7D
13	5	QPSK	779.5-784.5	22.66	15.74	0.0375	4.4617	4M46G7D
		16QAM		21.83	14.91	0.0310	4.456	4M46W7D
		64QAM		21.37	14.45	0.0279	4.4658	4M47W7D

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Bands	BW	Modulation	Frequency Range	Max RF Output Power (dBm)		ERP/EIRP (W)	99% BW (MHz)	Emission Designator	
	(MHz)		(MHz)	Conducted (Average)	ERP/EIRP (Average)				
	10	QPSK	782-782	22.69	15.77	0.0378	8.9308	8M93G7D	
		16QAM		22.23	15.31	0.0340	8.9215	8M92W7D	
		64QAM		21.73	14.81	0.0303	8.9062	8M91W7D	
17	5	QPSK	706.5-713.5	22.80	15.86	0.0385	4.4813	4M48G7D	
		16QAM		21.98	15.04	0.0319	4.4601	4M46W7D	
		64QAM		21.46	14.52	0.0283	4.4755	4M48W7D	
	10	QPSK	709-711	22.84	15.90	0.0389	8.944	8M94G7D	
		16QAM		22.36	15.42	0.0348	8.9629	8M96W7D	
		64QAM		21.86	14.92	0.0310	8.9464	8M95W7D	
66	1.4	QPSK	1710.7-1779.3	22.79	18.99	0.0793	1.0799	1M08G7W	
		16QAM		21.92	18.12	0.0649	1.0807	1M08D7W	
		64QAM		21.41	17.61	0.0577	1.0784	1M08D7W	
	3	QPSK	1711.5-1778.5	22.63	18.83	0.0764	2.676	2M68G7D	
		16QAM		21.97	18.17	0.0656	2.6753	2M68W7D	
		64QAM		21.44	17.64	0.0581	2.6786	2M68W7D	
	5	QPSK	1712.5-1777.5	22.92	19.12	0.0817	4.4632	4M46G7D	
		16QAM		21.78	17.98	0.0628	4.4638	4M46W7D	
		64QAM		21.26	17.46	0.0557	4.4633	4M46W7D	
	10	QPSK	1715-1775	22.92	19.12	0.0817	8.9511	8M95G7D	
		16QAM		22.28	18.48	0.0705	8.9321	8M93W7D	
		64QAM		21.34	17.54	0.0568	8.9357	8M94W7D	
	15	QPSK	1717.5-1772.5	22.88	19.08	0.0809	13.423	13M4G7D	
		16QAM		22.25	18.45	0.0700	13.421	13M4W7D	
		64QAM		21.79	17.99	0.0630	13.41	13M4W7D	
	20	QPSK	1720-1770	22.93	19.13	0.0818	17.872	17M9G7D	
		16QAM		22.30	18.50	0.0708	17.909	17M9W7D	
		64QAM		21.80	18.00	0.0631	17.821	17M8W7D	
	71	5	QPSK	665.5-695.5	22.89	17.92	0.0619	4.4598	4M46G7D
			16QAM		22.09	17.12	0.0515	4.4724	4M47W7D
			64QAM		21.49	16.52	0.0449	4.4715	4M47W7D
10		QPSK	668-693	22.86	17.89	0.0615	8.9537	8M95G7D	
		16QAM		22.54	17.57	0.0571	8.9292	8M93W7D	
		64QAM		21.92	16.95	0.0495	8.9421	8M94W7D	
15		QPSK	670.5-690.5	22.88	17.91	0.0618	13.391	13M4G7D	
		16QAM		22.56	17.59	0.0574	13.412	13M4W7D	
		64QAM		21.94	16.97	0.0498	13.405	13M4W7D	
20		QPSK	673-688	22.93	17.96	0.0625	17.876	17M9G7D	
		16QAM		22.67	17.70	0.0589	17.864	17M9W7D	
		64QAM		22.01	17.04	0.0506	17.885	17M9W7D	

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Summary of Results:							
Band	BW (MHz)	Frequency Range (MHz)	Max RF Output Power (dBm)		Type of Emission		
			Conducted (Average)	ERP/EIRP (Average)	QPSK	16QAM	64QAM
CA_7C	10+20	2505.5-2560.0	22.87	16.87	28M2G7W	28M0D7W	28M0D7W
	20+10		22.81	16.81	28M0G7W	28M1D7W	28M1D7W
	15+10		22.83	16.83	23M5G7W	23M4D7W	23M4D7W
	15+15		22.79	16.79	28M7G7W	28M6D7W	28M6D7W
	15+20		22.86	16.86	32M9G7W	32M8D7W	32M8D7W
	20+15		22.81	16.81	32M9G7W	32M9D7W	32M9D7W
	20+20		22.88	16.88	37M6G7W	37M6D7W	37M6D7W

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
--	--	--	--	--

2) Support Cable

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

1.5 TEST LOCATION

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 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.

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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 °C
9	DC Voltages	±0.68 %

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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)			
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

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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 13)			
Test Item	Test Requirement	Test Method	Result
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(b)(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(b)(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)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53	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	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	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

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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
<input checked="" type="checkbox"/>	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	22-Jan-2021	21-Jan-2024
<input checked="" type="checkbox"/>	Receiver	R&S	ESIB26	100114	3-Nov-2022	2-Nov-2023
<input checked="" type="checkbox"/>	Broadband Antenna	ETS-LINDGREN	3142E	00201566	13-Dec-2022	12-Dec-2023
<input checked="" type="checkbox"/>	6dB Attenuator	Talent	RA6A5-N-18	18103001	13-Dec-2022	12-Dec-2023
<input checked="" type="checkbox"/>	Preamplifier	HP	8447F	2805A02960	1-Nov-2022	31-Oct-2023
<input checked="" type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	16-Apr-2023	15-Apr-2025
<input checked="" type="checkbox"/>	Pre-amplifier	ETS-LINDGREN	00118385	00201874	1-Nov-2022	31-Oct-2023
<input checked="" type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	21-Nov-2022	20-Nov-2023
<input checked="" type="checkbox"/>	Pre-amplifier	ETS-LINDGREN	00118384	00202652	21-Nov-2022	20-Nov-2023
<input checked="" type="checkbox"/>	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
<input checked="" type="checkbox"/>	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
<input checked="" type="checkbox"/>	EXA Signal Analyzer	KEYSIGHT	N9010B	MY62060155	02-Jun-2022	01-Jun-2023
<input checked="" type="checkbox"/>	DC Source	KIKUSUI	PWR400L	LK003024	N/A	N/A
<input checked="" type="checkbox"/>	Digital multimeter	FLUKE	15B+	30701460WS15	02-Nov-2022	01-Nov-2023
<input checked="" type="checkbox"/>	Temp & Humidity chamber	Votisch	VT4002	58566133290020	14-Apr-2023	13-Apr-2024
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	119583	14-Apr-2023	13-Apr-2024
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	120932	14-Apr-2023	13-Apr-2024

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

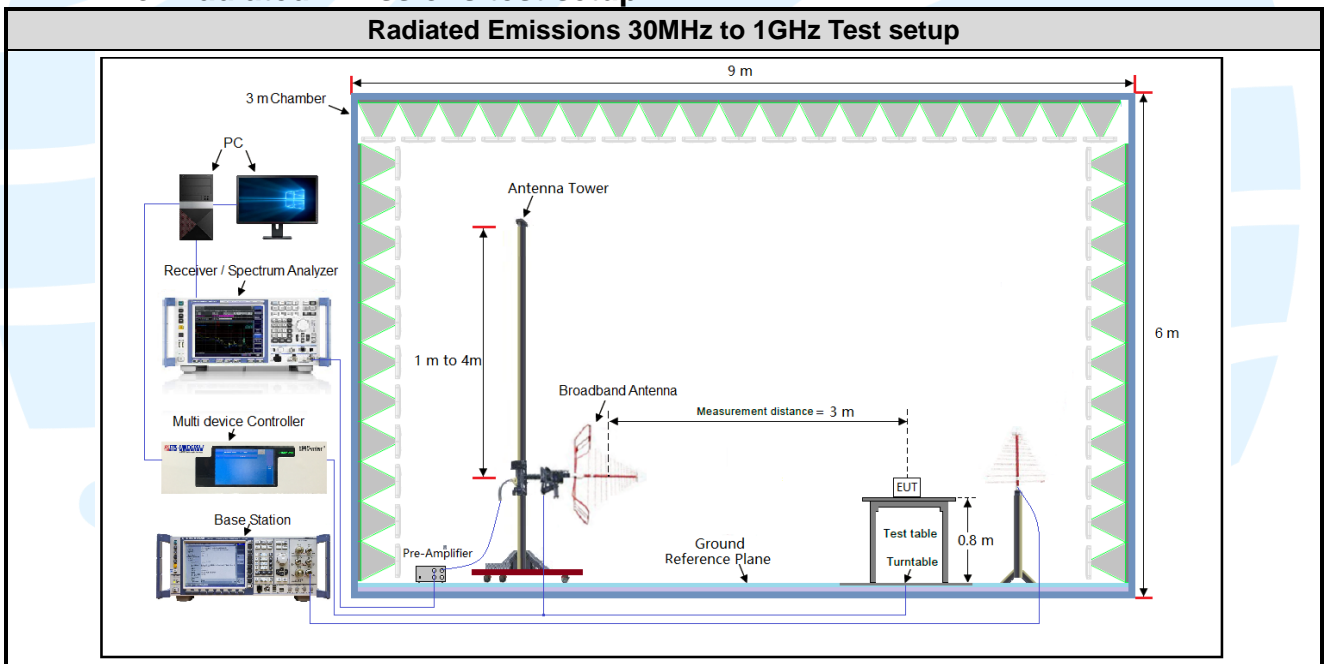
Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	3.87	20 to 75
TL/VL	-30	3.435	20 to 75
TH/VL	+50	3.435	20 to 75
TL/VH	-30	4.45	20 to 75
TH/VH	+50	4.45	20 to 75

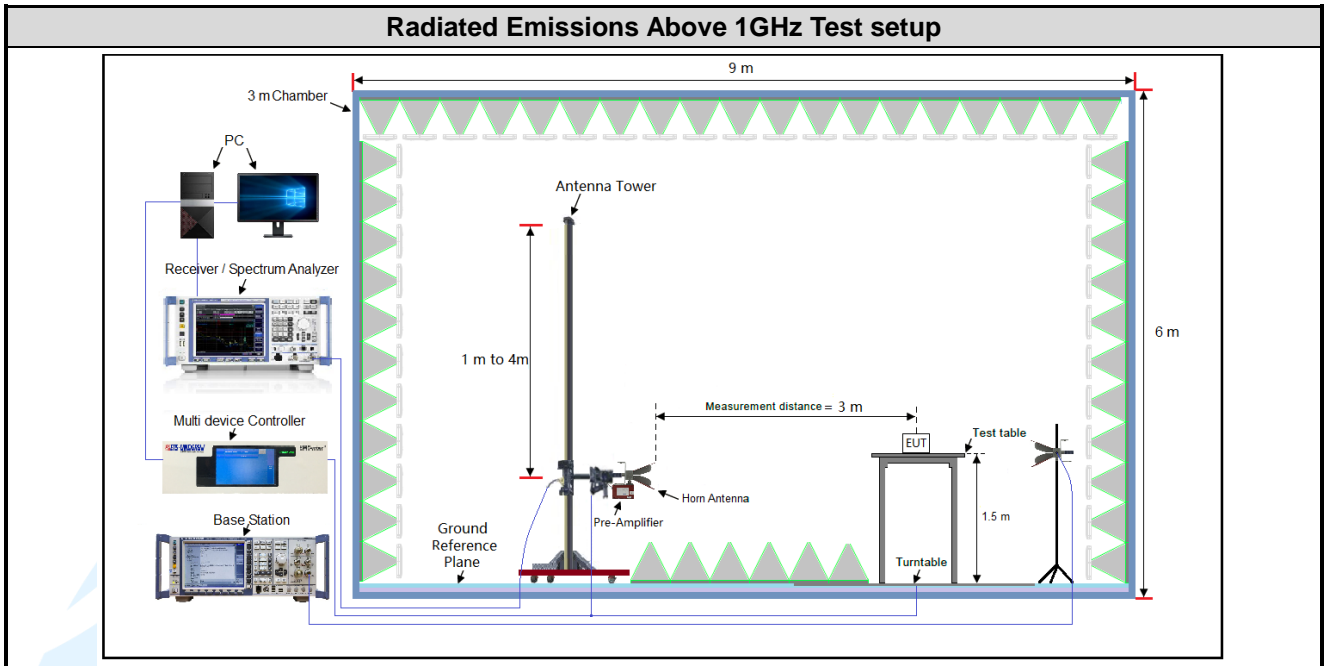
Remark:

- 1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 3.435 V to 4.45 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 3.435 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.

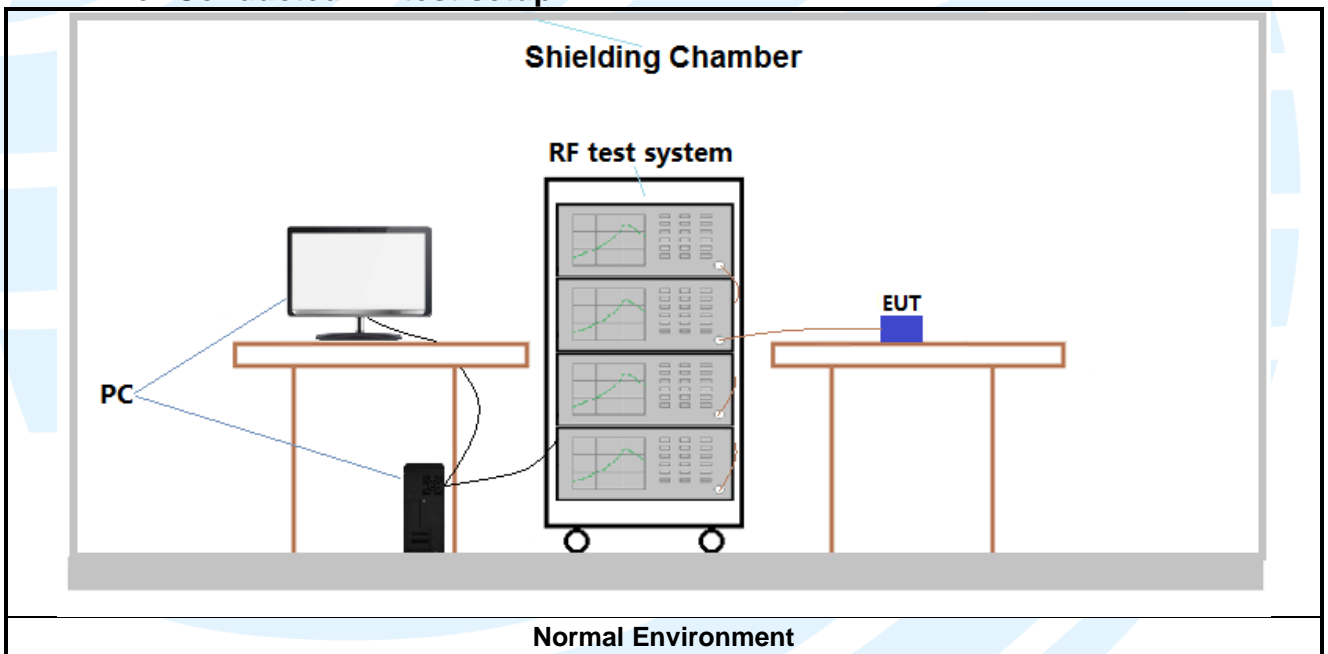
4.2 TEST SETUP

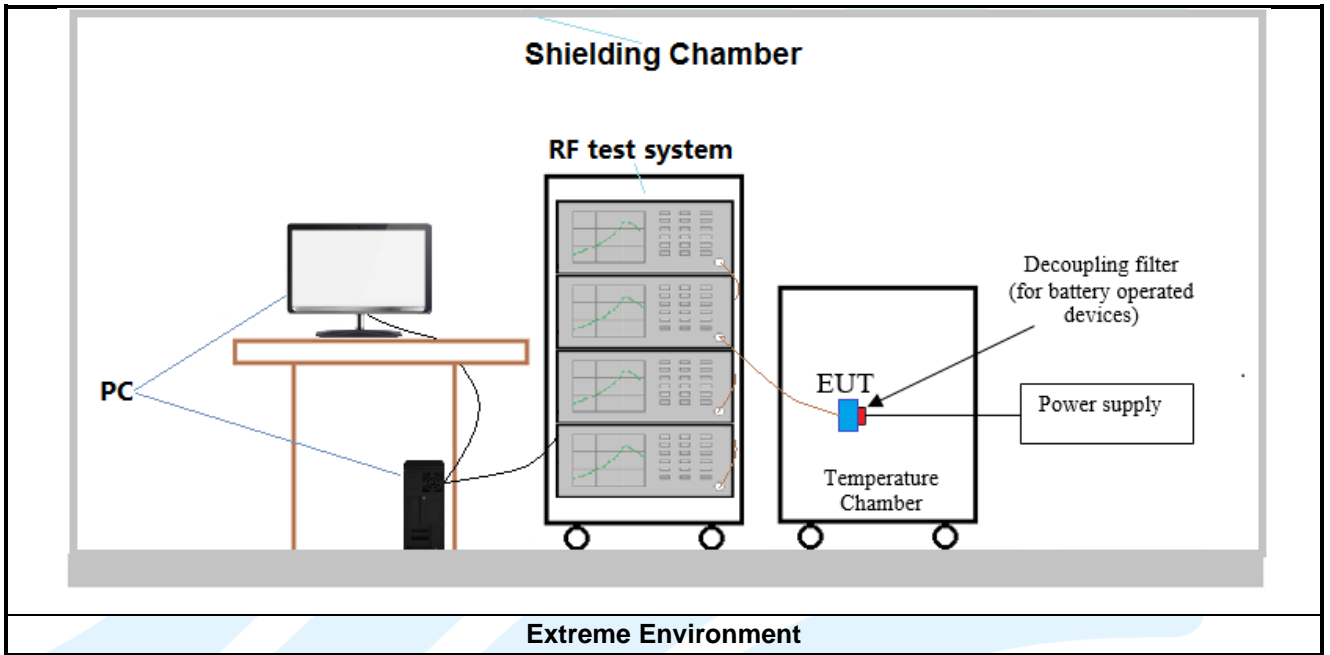
4.2.1 For Radiated Emissions test setup





4.2.2 For Conducted RF test setup





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
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		

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		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 13 TX: 777-787MHz	Low Range	5	23205	779.5
		10	23230	782
	Middle Range	5/10	23230	782
	High Range	5	23255	784.5
10		23230	782	
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 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

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CA Band	Test Frequency ID	Channel Bandwidth	PCC			SCC1		
			BW (RB)	Number (UL)	Frequency of Uplink (MHz)	BW (RB)	Number (UL)	Frequency of Uplink (MHz)
CA_7C	Low Range	10+20	50	20805	2505.5	100	20949	2519.9
		20+10	100	20850	2510	50	20994	2524.4
		15+10	75	20825	2507.5	50	20945	2519.5
		15+15	75	20825	2507.5	75	20975	2522.5
		15+20	75	20828	2507.8	100	20999	2524.9
		20+15	100	20850	2510	75	21021	2527.1
		20+20	100	20850	2510	100	21048	2529.8
	Middle Range	10+20	50	21006	2525.6	100	21150	2540
		20+10	100	21051	2530.1	50	21195	2544.5
		15+10	75	21051	2530.1	50	21171	2542.1
		15+15	75	21025	2527.5	75	21175	2542.5
		15+20	75	21003	2525.3	100	21174	2542.4
		20+15	100	21026	2527.6	75	21197	2544.7
		20+20	100	21001	2525.1	100	21199	2544.9
	High Range	10+20	50	21206	2545.6	100	21350	2560
		20+10	100	21251	2550.1	50	21395	2564.5
		15+10	75	21277	2552.7	50	21397	2564.7
		15+15	75	21225	2547.5	75	21375	2562.5
		15+20	75	21179	2542.9	100	21350	2560
		20+15	100	21201	2545.1	75	21372	2562.2
		20+20	100	21152	2540.2	100	21350	2560

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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	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒
	13	-	-	☒	☒	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
99%&26dB Bandwidth	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☐	☐	☒	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☒	☒	☒
	13	-	-	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☒	☒	☒
	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
peak-to-average ratio	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☐	☐	☒	☐	☒	☐
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☐	☒	☐
	13	-	-	☐	☒	-	-	☒	☒	☒	☐	☐	☒	☐	☒	☐
	17	-	-	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☐	☒	☐
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
Band Edge at antenna terminals	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☒	☐	☒	☒	☐	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☐	☒	☒	☐	☒
	13	-	-	☒	☒	-	-	☒	☒	☒	☒	☐	☐	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☐	☒	☒	☐	☒
	66	☒	☒	☒	☒	☒	--	☒	☒	☒	☒	☐	☒	☒	☐	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel		
Spurious emissions at antenna terminals	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☒	☐	☐	☒	☒	☒
	7	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☐	☐	☒	☒	☒
	13	-	-	☒	☒	-	-	☒	☒	☒	☒	☐	☐	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☐	☐	☒	☒	☒
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒

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Field strength of spurious radiation	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	--	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	7	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	13	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	17	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	66	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	71	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Frequency stability	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	--	--	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	7	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	13	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	17	-	-	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	66	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	71	-	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Remark: The mark "☒" means is chosen for testing; The mark "☐" means is not chosen for testing; The mark "-" means is not supported bandwidth																

Item	Band	Combination Bandwidth(MHz)							Modulation			Test Channel		
		10+ 20	20+ 10	15+ 10	15+ 15	15+ 20	20+ 15	20+ 20	QPSK	16QAM	64QAM	L	M	H
Conducted output power	CA_7C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
99%&26dB Bandwidth	CA_7C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Band Edge at antenna terminals	CA_7C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Spurious emissions at antenna terminals	CA_7C	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Field strength of spurious radiation	CA_7C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Frequency stability	CA_7C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

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)

Test Requirement: **LTE Band 5:** FCC 47 CFR Part 22.913(a)

LTE Band 7: FCC 47 CFR Part 27.50(h)(2)

LTE Band 12 & Band 17 & Band 71: FCC 47 CFR Part 27.50(c)(10)

LTE Band 13: FCC 47 CFR Part 27.50(b)(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.

FCC 47 CFR Part 27.50(b)(10):

Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

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

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5.2.1 LTE Band 2

		Conducted Power(dBm)									
Modulation		RB	QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)		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	22.35	22.49	22.45	21.21	21.22	21.41	20.78	20.68	20.90
		1@3	22.41	22.51	22.51	21.27	21.28	21.51	20.81	20.77	20.97
		1@5	22.36	22.46	22.42	21.25	21.21	21.39	20.78	20.72	20.89
		3@0	22.49	22.62	22.59	21.54	21.74	21.46	21.09	21.23	20.90
		3@1	22.47	22.62	22.61	21.69	21.66	21.75	21.24	21.14	21.20
		3@3	22.53	22.59	22.58	21.54	21.76	21.49	21.08	21.23	20.96
		6@0	21.53	21.65	21.64	20.44	20.67	20.63	20.00	20.12	20.12
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	22.25	22.40	22.36	21.27	21.14	21.89	20.68	21.43	20.85
		1@8	22.38	22.50	22.47	21.39	21.30	21.95	20.83	21.56	20.95
		1@14	22.29	22.36	22.37	21.29	21.18	21.80	20.74	21.35	20.86
		8@0	21.50	21.59	21.63	20.48	20.66	20.74	20.12	20.25	20.05
		8@4	21.54	21.67	21.63	20.69	20.73	20.74	20.15	20.30	20.23
		8@7	21.47	21.51	21.58	20.44	20.63	20.75	20.15	20.23	20.00
		15@0	21.44	21.50	21.56	20.42	20.64	20.62	20.09	20.15	19.99
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	22.56	22.66	22.67	21.39	21.43	21.75	20.98	20.96	21.27
		1@12	22.67	22.73	22.72	21.56	21.53	21.87	21.10	21.02	21.38
		1@24	22.63	22.67	22.69	21.51	21.45	21.80	21.00	20.94	21.26
		12@0	21.56	21.65	21.68	20.51	20.64	20.69	20.07	20.13	20.21
		12@7	21.65	21.72	21.67	20.76	20.82	20.85	20.27	20.34	20.34
		12@13	21.56	21.67	21.57	20.64	20.61	20.58	20.16	20.15	20.11
		25@0	21.63	21.68	21.65	20.66	20.74	20.65	20.20	20.31	20.20
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	22.55	22.70	22.70	21.42	22.21	21.68	21.02	21.79	21.17
		1@25	22.69	22.72	22.80	21.50	22.29	21.76	21.08	21.84	21.25
		1@49	22.66	22.70	22.69	21.49	22.30	21.73	21.02	21.80	21.16
		25@0	21.55	21.68	21.70	20.62	20.74	20.71	20.24	20.32	20.24
		25@12	21.67	21.73	21.73	20.83	20.76	20.79	20.36	20.35	20.31
		25@25	21.75	21.71	21.59	20.87	20.78	20.55	20.41	20.29	20.09
		50@0	21.63	21.68	21.67	20.71	20.72	20.67	20.31	20.27	20.15
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	22.53	22.58	22.64	21.73	22.15	21.64	21.34	21.71	21.16
		1@37	22.71	22.75	22.81	21.91	22.33	21.76	21.43	21.85	21.30
		1@74	22.59	22.65	22.60	21.77	22.21	21.66	21.24	21.71	21.10
		36@0	21.56	21.66	21.70	20.53	20.73	20.66	20.08	20.27	20.21
		36@20	21.67	21.75	21.82	20.64	20.78	20.81	20.21	20.24	20.29
		36@39	21.67	21.66	21.65	20.68	20.77	20.62	20.24	20.23	20.13
		75@0	21.68	21.73	21.72	20.65	20.73	20.69	20.19	20.28	20.21
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	22.41	22.56	22.51	21.60	21.63	22.01	21.25	21.17	21.60
		1@49	22.73	22.89	22.77	21.87	21.89	22.34	21.44	21.41	21.98
		1@99	22.59	22.58	22.50	21.75	21.71	22.05	21.25	21.21	21.45
		50@0	21.48	21.78	21.58	20.49	20.76	20.58	20.10	20.35	20.14
		50@24	21.71	21.76	21.75	20.74	20.84	20.74	20.35	20.34	20.21
		50@50	21.78	21.72	21.52	20.74	20.73	20.51	20.27	20.26	20.01
		100@0	21.60	21.77	21.54	20.63	20.78	20.58	20.18	20.31	20.11

5.2.2 LTE Band 4

		Conducted Power(dBm)									
Modulation		RB	QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)		19957	20175	20393	19957	20175	20393	19957	20175	20393
			1710.7	1732.5	1754.3	1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
4	1.4	1@0	22.71	22.48	22.45	21.47	21.25	21.39	20.93	20.76	20.86
		1@3	22.73	22.54	22.47	21.53	21.32	21.49	21.03	20.76	20.97
		1@5	22.65	22.47	22.42	21.49	21.24	21.45	20.92	20.72	20.86
		3@0	22.74	22.61	22.55	21.81	21.76	21.50	21.25	21.24	20.95
		3@1	22.82	22.65	22.59	21.97	21.67	21.76	21.41	21.11	21.21
		3@3	22.79	22.62	22.53	21.81	21.79	21.51	21.25	21.24	20.94
		6@0	21.87	21.66	21.56	20.76	20.68	20.66	20.19	20.14	20.07
Band	Bandwidth (MHz)	RB	19965	20175	20385	19965	20175	20385	19965	20175	20385
			1711.5	1732.5	1753.5	1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
4	3	1@0	22.51	22.37	22.26	21.29	21.96	21.30	20.85	21.43	20.76
		1@8	22.61	22.46	22.39	21.41	21.99	21.46	20.97	21.44	20.88
		1@14	22.56	22.31	22.29	21.44	21.82	21.33	20.78	21.36	20.82
		8@0	21.78	21.60	21.55	20.82	20.75	20.49	20.24	20.19	19.98
		8@4	21.80	21.64	21.55	20.82	20.76	20.71	20.27	20.22	20.19
		8@7	21.68	21.54	21.46	20.79	20.72	20.47	20.22	20.17	19.90
		15@0	21.74	21.60	21.55	20.77	20.65	20.44	20.23	20.07	19.93
Band	Bandwidth (MHz)	RB	19975	20175	20375	19975	20175	20375	19975	20175	20375
			1712.5	1732.5	1752.5	1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
4	5	1@0	22.77	22.70	22.59	21.73	21.45	21.72	21.12	21.31	20.90
		1@12	22.83	22.81	22.70	21.82	21.53	21.84	21.16	21.39	21.03
		1@24	22.81	22.69	22.55	21.64	21.45	21.69	21.00	21.29	20.87
		12@0	21.80	21.66	21.55	20.72	20.63	20.57	20.22	20.16	19.99
		12@7	21.87	21.68	21.67	20.93	20.78	20.82	20.46	20.32	20.18
		12@13	21.87	21.70	21.61	20.76	20.65	20.59	20.19	20.16	20.01
		25@0	21.82	21.71	21.67	20.85	20.78	20.67	20.35	20.19	20.14
Band	Bandwidth (MHz)	RB	20000	20175	20350	20000	20175	20350	20000	20175	20350
			1715	1732.5	1750	1715	1732.5	1750	1715	1732.5	1750
4	10	1@0	22.90	22.77	22.64	21.75	21.77	21.66	21.18	21.81	21.14
		1@25	22.90	22.71	22.64	21.73	21.86	21.70	21.15	21.78	21.17
		1@49	22.81	22.68	22.57	21.64	21.62	21.65	21.05	21.67	21.11
		25@0	21.76	21.69	21.57	20.84	20.66	20.63	20.34	20.14	20.12
		25@12	21.88	21.79	21.67	21.03	20.80	20.75	20.48	20.23	20.18
		25@25	21.82	21.67	21.58	20.90	20.73	20.67	20.39	20.28	20.13
		50@0	21.85	21.74	21.64	20.84	20.73	20.63	20.32	20.18	20.10
Band	Bandwidth (MHz)	RB	20025	20175	20325	20025	20175	20325	20025	20175	20325
			1717.5	1732.5	1747.5	1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
4	15	1@0	22.77	22.71	22.68	22.03	22.29	21.70	21.52	21.76	21.17
		1@37	22.83	22.73	22.72	22.06	22.31	21.73	21.54	21.79	21.22
		1@74	22.66	22.55	22.57	21.88	22.13	21.59	21.30	21.61	20.98
		36@0	21.78	21.66	21.66	20.73	20.70	20.67	20.23	20.15	20.09
		36@20	21.84	21.76	21.71	20.78	20.76	20.77	20.28	20.23	20.21
		36@39	21.75	21.66	21.59	20.78	20.68	20.63	20.25	20.16	20.08
		75@0	21.83	21.68	21.70	20.76	20.70	20.68	20.26	20.13	20.12
Band	Bandwidth (MHz)	RB	20050	20175	20300	20050	20175	20300	20050	20175	20300
			1720	1732.5	1745	1720	1732.5	1745	1720	1732.5	1745
4	20	1@0	22.81	22.69	22.57	21.92	22.40	22.04	21.28	21.55	21.19
		1@50	22.91	22.80	22.65	22.00	22.34	22.19	21.40	21.83	21.39
		1@99	22.64	22.53	22.45	21.74	22.22	21.97	21.15	21.39	21.14
		50@0	21.75	21.67	21.68	20.70	20.74	20.69	20.22	20.15	20.09
		50@25	21.84	21.78	21.74	20.92	20.85	20.72	20.37	20.23	20.23
		50@50	21.83	21.74	21.65	20.81	20.81	20.65	20.26	20.16	20.11
		100@0	21.79	21.68	21.62	20.82	20.71	20.65	20.22	20.17	20.15

5.2.3 LTE Band 5

		Conducted Power(dBm)										
Modulation		RB	QPSK			16QAM				64QAM		
Band	Bandwidth (MHz)		20407	20525	20643	20407	20525	20643	20407	20525	20643	
			824.7	836.5	848.3	824.7	836.5	848.3	824.7	836.5	848.3	
5	1.4	1@0	22.46	22.50	22.53	21.31	21.26	21.50	20.79	20.97	20.28	
		1@3	22.54	22.55	22.56	21.39	21.35	21.56	20.97	20.67	19.96	
		1@5	22.51	22.54	22.48	21.32	21.24	21.43	20.69	20.96	20.37	
		3@0	22.56	22.63	22.65	21.61	21.72	21.51	20.87	20.41	20.42	
		3@1	22.59	22.63	22.64	21.73	21.65	21.77	20.76	20.59	20.58	
		3@3	22.56	22.62	22.63	21.59	21.76	21.50	20.91	20.36	20.85	
		6@0	21.70	21.69	21.66	20.56	20.68	20.72	20.21	20.65	20.57	
Band	Bandwidth (MHz)	RB	20415	20525	20635	20415	20525	20635	20415	20525	20635	
			825.5	836.5	847.5	825.5	836.5	847.5	825.5	836.5	847.5	
5	3	1@0	22.38	22.32	22.38	21.11	21.87	21.34	20.71	20.86	20.30	
		1@8	22.50	22.45	22.48	21.34	21.95	21.47	20.74	20.90	20.23	
		1@14	22.41	22.35	22.39	21.27	21.85	21.37	20.74	20.97	20.33	
		8@0	21.58	21.58	21.56	20.63	20.71	20.54	20.55	20.08	20.26	
		8@4	21.62	21.65	21.60	20.70	20.71	20.77	20.17	20.70	20.04	
		8@7	21.60	21.53	21.58	20.56	20.72	20.54	20.44	20.50	20.66	
		15@0	21.50	21.57	21.59	20.59	20.59	20.50	20.29	20.55	20.01	
Band	Bandwidth (MHz)	RB	20425	20525	20625	20425	20525	20625	20425	20525	20625	
			826.5	836.5	846.5	826.5	836.5	846.5	826.5	836.5	846.5	
5	5	1@0	22.62	22.59	22.58	21.44	21.37	21.74	19.85	20.59	19.98	
		1@12	22.75	22.73	22.75	21.62	21.52	21.92	19.72	20.53	19.95	
		1@24	22.60	22.56	22.62	21.49	21.36	21.74	19.69	20.56	20.12	
		12@0	21.54	21.61	21.62	20.52	20.60	20.69	20.15	20.16	20.39	
		12@7	21.73	21.72	21.71	20.71	20.80	20.81	20.16	20.55	20.04	
		12@13	21.66	21.60	21.65	20.62	20.57	20.67	20.10	20.50	20.08	
		25@0	21.62	21.63	21.65	20.63	20.67	20.67	20.28	20.53	20.16	
Band	Bandwidth (MHz)	RB	20450	20525	20600	20450	20525	20600	20450	20525	20600	
			829	836.5	844	829	836.5	844	829	836.5	844	
5	10	1@0	22.69	22.68	22.65	22.15	21.70	21.48	20.98	20.68	19.80	
		1@25	22.77	22.71	22.68	22.22	21.72	21.58	20.78	20.58	19.80	
		1@49	22.67	22.67	22.65	22.14	21.68	21.52	20.80	20.57	19.87	
		25@0	21.58	21.63	21.61	20.61	20.60	20.69	20.13	20.20	20.18	
		25@12	21.70	21.66	21.66	20.72	20.76	20.77	20.15	20.56	20.21	
		25@25	21.75	21.61	21.61	20.69	20.65	20.72	20.17	20.60	20.24	
		50@0	21.64	21.67	21.64	20.63	20.59	20.69	20.13	20.59	20.09	

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	22.53	22.64	22.71	21.48	21.38	21.83	20.59	20.52	20.99
		1@12	22.70	22.76	22.87	21.65	21.49	21.94	20.77	20.60	21.07
		1@24	22.61	22.60	22.73	21.47	21.38	21.83	20.63	20.50	20.94
		12@0	21.65	21.61	21.74	20.58	20.64	20.74	19.71	19.73	19.89
		12@7	21.70	21.73	21.76	20.70	20.78	20.89	19.88	19.89	20.05
		12@13	21.65	21.68	21.75	20.67	20.63	20.75	19.78	19.76	19.90
		25@0	21.64	21.64	21.73	20.68	20.73	20.77	19.84	19.93	19.91
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	22.65	22.67	22.77	21.51	22.16	21.76	20.63	21.34	20.91
		1@25	22.66	22.69	22.81	21.54	22.21	21.82	20.71	21.38	20.96
		1@49	22.61	22.68	22.77	21.43	22.19	21.74	20.61	21.37	20.89
		25@0	21.57	21.66	21.75	20.72	20.72	20.82	19.84	19.86	19.90
		25@12	21.67	21.73	21.81	20.82	20.79	20.92	19.99	19.92	19.98
		25@25	21.64	21.67	21.76	20.78	20.75	20.81	19.92	19.91	19.91
		50@0	21.63	21.70	21.79	20.72	20.66	20.77	19.92	19.83	19.93
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	22.55	22.62	22.69	21.78	22.15	21.75	20.93	21.28	20.92
		1@37	22.65	22.76	22.81	21.89	22.23	21.84	21.06	21.40	20.95
		1@74	22.51	22.59	22.72	21.74	22.17	21.64	20.92	21.26	20.84
		36@0	21.54	21.64	21.79	20.59	20.65	20.80	19.76	19.79	19.93
		36@20	21.68	21.74	21.80	20.64	20.76	20.84	19.80	19.87	20.01
		36@39	21.63	21.67	21.79	20.67	20.67	20.81	19.78	19.80	19.93
		75@0	21.63	21.75	21.83	20.63	20.69	20.75	19.73	19.82	19.92
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	22.55	22.47	22.65	21.58	21.97	21.79	20.80	20.80	21.39
		1@49	22.64	22.70	22.89	21.78	22.48	21.96	21.00	20.96	20.85
		1@99	22.43	22.51	22.65	21.58	22.01	21.78	20.78	20.78	21.19
		50@0	21.54	21.60	21.70	20.56	20.65	20.72	19.71	19.80	19.84
		50@24	21.69	21.69	21.85	20.71	20.70	20.88	19.81	19.93	19.99
		50@50	21.64	21.65	21.67	20.67	20.63	20.70	19.81	19.82	19.86
		100@0	21.56	21.64	21.68	20.60	20.67	20.68	19.78	19.79	19.85

5.2.5 LTE Band 12

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)	RB	23017	23095	23173	23017	23095	23173	23017	23095	23173
			699.7	707.5	715.3	699.7	707.5	715.3	699.7	707.5	715.3
12	1.4	1@0	22.63	22.63	22.53	21.47	21.35	21.44	21.06	20.91	21.00
		1@3	22.67	22.63	22.54	21.53	21.39	21.57	21.05	20.89	21.13
		1@5	22.51	22.52	22.48	21.43	21.32	21.43	20.97	20.89	20.99
		3@0	22.75	22.70	22.59	21.83	21.87	21.50	21.33	21.34	21.03
		3@1	22.75	22.69	22.65	21.94	21.79	21.77	21.44	21.29	21.31
		3@3	22.67	22.66	22.62	21.72	21.84	21.53	21.26	21.37	21.05
		6@0	21.83	21.80	21.68	20.77	20.77	20.71	20.24	20.32	20.24
Band	Bandwidth (MHz)	RB	23025	23095	23165	23025	23095	23165	23025	23095	23165
			700.5	707.5	714.5	700.5	707.5	714.5	700.5	707.5	714.5
12	3	1@0	22.55	22.46	22.37	21.32	22.07	21.44	20.87	21.60	20.92
		1@8	22.62	22.49	22.50	21.42	22.09	21.50	20.93	21.67	21.02
		1@14	22.46	22.40	22.39	21.36	21.98	21.42	20.84	21.51	20.93
		8@0	21.72	21.66	21.67	20.82	20.83	20.64	20.37	20.39	20.17
		8@4	21.74	21.68	21.67	20.87	20.86	20.78	20.39	20.37	20.28
		8@7	21.64	21.68	21.62	20.74	20.84	20.56	20.30	20.34	20.10
		15@0	21.66	21.64	21.62	20.75	20.74	20.58	20.31	20.28	20.07
Band	Bandwidth (MHz)	RB	23035	23095	23155	23035	23095	23155	23035	23095	23155
			701.5	707.5	713.5	701.5	707.5	713.5	701.5	707.5	713.5
12	5	1@0	22.75	22.72	22.72	21.70	21.55	21.84	21.25	21.07	21.38
		1@12	22.82	22.83	22.81	21.74	21.65	21.93	21.32	21.17	21.42
		1@24	22.71	22.69	22.65	21.61	21.51	21.83	21.14	20.96	21.33
		12@0	21.77	21.66	21.79	20.78	20.67	20.76	20.34	20.24	20.32
		12@7	21.81	21.81	21.71	20.85	20.89	20.93	20.46	20.40	20.46
		12@13	21.72	21.77	21.67	20.70	20.75	20.72	20.21	20.30	20.22
		25@0	21.78	21.77	21.75	20.85	20.82	20.73	20.34	20.37	20.26
Band	Bandwidth (MHz)	RB	23060	23095	23130	23060	23095	23130	23060	23095	23130
			704	707.5	711	704	707.5	711	704	707.5	711
12	10	1@0	22.77	22.73	22.74	21.82	21.61	22.35	21.89	21.31	21.19
		1@25	22.87	22.77	22.77	21.84	21.67	22.35	21.94	21.38	21.21
		1@49	22.80	22.73	22.74	21.74	21.58	22.23	21.83	21.30	21.08
		25@0	21.75	21.63	21.60	20.85	20.80	20.77	20.39	20.27	20.23
		25@12	21.81	21.87	21.71	20.92	20.93	20.85	20.45	20.47	20.44
		25@25	21.88	21.82	21.71	20.90	20.93	20.70	20.39	20.41	20.35
		50@0	21.81	21.75	21.67	20.87	20.84	20.73	20.37	20.37	20.21

5.2.6 LTE Band 13

		Conducted Power(dBm)									
Modulation		QPSK			16QAM			64QAM			
Band	Bandwidth (MHz)	RB	23205	23230	23255	23205	23230	23255	23205	23230	23255
			779.5	782	784.5	779.5	782	784.5	779.5	782	784.5
13	5	1@0	22.55	22.55	22.57	21.46	21.29	21.80	20.96	20.84	21.22
		1@12	22.65	22.62	22.66	21.52	21.40	21.83	21.09	21.01	21.37
		1@24	22.61	22.55	22.59	21.45	21.30	21.70	20.94	20.85	21.27
		12@0	21.48	21.59	21.53	20.38	20.58	20.58	19.91	20.08	20.08
		12@7	21.61	21.64	21.62	20.66	20.73	20.76	20.20	20.26	20.29
		12@13	21.54	21.60	21.50	20.49	20.55	20.52	19.96	20.11	20.03
		25@0	21.50	21.64	21.57	20.55	20.63	20.61	20.15	20.14	20.09
Band	Bandwidth (MHz)	RB	0	23230	0	0	23230	0	0	23230	0
			0	782	0	0	782	0	0	782	0
3	10	1@0	/	22.65	/	/	22.09	/	/	21.67	/
		1@25	/	22.69	/	/	22.23	/	/	21.73	/
		1@49	/	22.62	/	/	22.14	/	/	21.66	/
		25@0	/	21.50	/	/	20.56	/	/	20.07	/
		25@12	/	21.60	/	/	20.71	/	/	20.21	/
		25@25	/	21.54	/	/	20.62	/	/	20.13	/
		50@0	/	21.51	/	/	20.58	/	/	20.07	/

5.2.7 LTE Band 17

Conducted Power(dBm)											
Modulation			QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)	RB	23755	23790	23825	23755	23790	23825	23755	23790	23825
			706.5	710	713.5	706.5	710	713.5	706.5	710	713.5
17	5	1@0	22.75	22.66	22.68	21.46	21.85	21.53	21.14	21.01	21.33
		1@12	22.78	22.80	22.76	21.60	21.98	21.68	21.19	21.09	21.46
		1@24	22.71	22.60	22.54	21.46	21.77	21.51	21.09	20.85	21.21
		12@0	21.67	21.60	21.67	20.66	20.68	20.63	20.08	20.13	20.21
		12@7	21.80	21.75	21.71	20.78	20.91	20.78	20.28	20.38	20.37
		12@13	21.71	21.69	21.67	20.68	20.72	20.56	20.20	20.21	20.18
		25@0	21.73	21.70	21.69	20.81	20.74	20.72	20.31	20.30	20.19
Band	Bandwidth (MHz)	RB	23780	23790	23800	23780	23790	23800	23780	23790	23800
			709	710	711	709	710	711	709	710	711
17	10	1@0	22.81	22.74	22.73	22.29	21.72	21.58	21.84	21.24	21.11
		1@25	22.84	22.76	22.78	22.36	21.82	21.59	21.86	21.28	21.10
		1@49	22.72	22.68	22.68	22.19	21.69	21.55	21.69	21.22	21.05
		25@0	21.58	21.62	21.60	20.68	20.66	20.75	20.21	20.18	20.22
		25@12	21.83	21.75	21.73	20.86	20.82	20.83	20.34	20.34	20.37
		25@25	21.74	21.69	21.56	20.81	20.62	20.76	20.29	20.12	20.22
		50@0	21.67	21.67	21.61	20.70	20.69	20.63	20.21	20.18	20.12

5.2.8 LTE Band 66

Conducted Power(dBm)											
Modulation		RB	QPSK			16QAM			64QAM		
Band	Bandwidth (MHz)		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	22.64	22.49	22.32	21.50	21.27	21.31	20.98	20.72	20.75
		1@3	22.72	22.54	22.40	21.51	21.27	21.37	21.04	20.75	20.85
		1@5	22.59	22.44	22.32	21.42	21.22	21.34	20.91	20.73	20.76
		3@0	22.75	22.58	22.45	21.72	21.71	21.30	21.22	21.25	20.78
		3@1	22.74	22.64	22.46	21.92	21.62	21.57	21.41	21.12	21.07
		3@3	22.79	22.61	22.42	21.79	21.77	21.32	21.26	21.24	20.81
		6@0	21.80	21.64	21.52	20.75	20.65	20.56	20.19	20.20	20.05
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	22.61	22.36	22.21	21.31	21.88	21.17	20.79	21.38	20.67
		1@8	22.63	22.41	22.29	21.42	21.97	21.29	20.95	21.44	20.82
		1@14	22.54	22.33	22.23	21.34	21.83	21.19	20.95	21.37	20.66
		8@0	21.74	21.59	21.46	20.77	20.72	20.38	20.29	20.22	19.91
		8@4	21.80	21.61	21.48	20.81	20.76	20.53	20.33	20.25	20.04
		8@7	21.69	21.57	21.41	20.76	20.75	20.35	20.23	20.19	19.86
		15@0	21.70	21.55	21.37	20.74	20.63	20.28	20.22	20.15	19.84
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	22.79	22.73	22.54	21.63	21.36	21.56	21.15	20.90	21.09
		1@12	22.92	22.73	22.62	21.78	21.48	21.70	21.26	21.05	21.23
		1@24	22.76	22.61	22.50	21.65	21.36	21.58	21.10	20.88	21.05
		12@0	21.77	21.61	21.50	20.69	20.58	20.49	20.20	20.09	19.99
		12@7	21.88	21.63	21.53	20.91	20.74	20.69	20.41	20.28	20.17
		12@13	21.82	21.67	21.45	20.80	20.62	20.42	20.26	20.08	20.02
		25@0	21.80	21.64	21.47	20.79	20.74	20.52	20.32	20.26	20.00
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	22.87	22.72	22.52	21.68	22.28	21.53	21.17	21.18	21.08
		1@25	22.92	22.69	22.54	21.66	22.28	21.53	21.20	21.34	21.06
		1@49	22.87	22.60	22.55	21.64	22.19	21.45	21.19	21.10	21.02
		25@0	21.70	21.65	21.52	20.83	20.75	20.62	20.34	20.18	20.04
		25@12	21.87	21.74	21.53	20.95	20.77	20.61	20.48	20.30	20.11
		25@25	21.80	21.65	21.49	20.94	20.73	20.48	20.41	20.31	20.01
		50@0	21.82	21.66	21.47	20.82	20.65	20.51	20.34	20.29	20.03
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	22.77	22.70	22.53	21.96	22.23	21.54	21.53	21.73	21.05
		1@37	22.88	22.73	22.59	22.12	22.25	21.59	21.58	21.79	21.13
		1@74	22.68	22.55	22.44	21.85	22.11	21.42	21.40	21.61	20.95
		36@0	21.76	21.70	21.55	20.75	20.71	20.57	20.22	20.20	20.05
		36@20	21.80	21.71	21.56	20.86	20.74	20.60	20.30	20.25	20.12
		36@39	21.80	21.62	21.48	20.78	20.64	20.53	20.29	20.19	20.00
		75@0	21.79	21.74	21.59	20.76	20.69	20.55	20.28	20.15	20.05
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	22.77	22.60	22.44	21.82	21.69	21.88	21.39	21.80	21.19
		1@50	22.93	22.79	22.61	22.08	21.82	22.30	21.54	21.76	21.26
		1@99	22.65	22.51	22.35	21.79	21.58	21.80	21.29	21.69	20.98
		50@0	21.73	21.66	21.52	20.68	20.71	20.57	20.18	20.21	20.11
		50@25	21.81	21.73	21.59	20.85	20.78	20.57	20.41	20.27	20.13
		50@50	21.87	21.61	21.40	20.84	20.69	20.47	20.27	20.22	19.94
		100@0	21.72	21.67	21.47	20.76	20.66	20.48	20.25	20.18	19.96

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	22.72	22.74	22.72	21.73	21.62	21.93	21.14	20.99	21.39
		1@12	22.86	22.89	22.88	21.80	21.74	22.09	21.18	21.19	21.49
		1@24	22.71	22.79	22.85	21.68	21.63	21.97	21.03	21.05	21.36
		12@0	21.76	21.84	21.73	20.71	20.84	20.87	20.15	20.23	20.22
		12@7	21.84	21.90	21.85	20.94	21.02	21.04	20.31	20.46	20.52
		12@13	21.79	21.86	21.83	20.73	20.82	20.88	20.14	20.23	20.24
		25@0	21.79	21.88	21.88	20.87	20.96	20.91	20.23	20.32	20.31
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	22.80	22.86	22.76	21.65	22.46	21.91	21.07	21.90	21.34
		1@25	22.84	22.85	22.81	21.75	22.54	21.86	21.14	21.92	21.31
		1@49	22.79	22.84	22.85	21.63	22.54	21.78	21.15	21.88	21.27
		25@0	21.85	21.91	21.80	20.90	20.95	20.96	20.29	20.37	20.35
		25@12	21.83	21.90	21.88	20.96	20.98	20.96	20.39	20.38	20.47
		25@25	21.97	21.94	21.79	21.02	20.92	20.90	20.42	20.43	20.24
		50@0	21.93	21.88	21.84	20.93	20.97	20.82	20.30	20.34	20.31
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	22.70	22.67	22.71	21.96	22.37	21.80	21.40	21.77	21.24
		1@37	22.79	22.85	22.88	22.12	22.56	21.86	21.52	21.94	21.37
		1@74	22.69	22.69	22.73	21.98	22.47	21.74	21.40	21.79	21.23
		36@0	21.74	21.92	21.76	20.78	20.90	20.83	20.18	20.36	20.22
		36@20	21.85	21.84	21.79	20.77	20.89	20.95	20.26	20.31	20.40
		36@39	21.82	21.86	21.76	20.86	20.95	20.85	20.27	20.30	20.28
		75@0	21.83	21.88	21.76	20.80	20.90	20.83	20.19	20.34	20.28
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	22.68	22.67	22.59	21.84	21.82	22.18	21.25	21.23	21.58
		1@49	22.81	22.93	22.79	22.01	22.05	22.67	21.41	21.45	22.01
		1@99	22.68	22.67	22.63	21.98	21.81	22.10	21.33	21.20	21.57
		50@0	21.66	21.98	21.79	20.67	20.92	20.85	20.05	20.35	20.24
		50@24	21.88	21.89	21.91	20.92	20.99	20.94	20.30	20.42	20.36
		50@50	21.75	21.94	21.79	20.72	20.93	20.87	20.17	20.38	20.26
		100@0	21.71	21.99	21.74	20.73	20.97	20.81	20.14	20.36	20.29

4.5.1 LTE CA_7C

LTE CA_7C Maximum Average Power (dBm)							
Channel		Modulation	PCC		SCC		Average Power (dBm)
PCC	SCC		RB Size	RB offset	RB Size	RB offset	
Combination 10MHz+20MHz							
20805	20949	QPSK	1	49	1	0	22.87
		16QAM	1	49	1	0	22.58
		64QAM	1	49	1	0	22.17
21006	21150	QPSK	1	49	1	0	22.85
		16QAM	1	49	1	0	22.19
		64QAM	1	49	1	0	21.23
21206	21350	QPSK	1	49	0	0	22.85
		16QAM	1	49	1	0	22.09
		64QAM	1	49	1	0	21.03
Combination 20MHz+10MHz							
20850	20994	QPSK	1	99	1	0	22.74
		16QAM	1	99	1	0	22.68
		64QAM	1	99	1	0	22.26
21051	21195	QPSK	1	99	1	0	22.70
		16QAM	1	99	1	0	22.78
		64QAM	1	99	1	0	22.43
21251	21395	QPSK	1	0	0	0	22.81

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		16QAM	1	99	1	0	22.77
		64QAM	1	99	1	0	22.73
Combination 15MHz+10MHz							
20825	20945	QPSK	1	74	1	0	22.82
		16QAM	1	74	1	0	22.51
		64QAM	1	74	1	0	21.99
21051	21171	QPSK	1	74	1	0	22.83
		16QAM	1	74	1	0	22.59
		64QAM	1	74	1	0	22.01
21277	21397	QPSK	1	74	1	0	22.78
		16QAM	1	74	1	0	22.45
		64QAM	1	74	1	0	21.73
Combination 15MHz+15MHz							
20825	20975	QPSK	1	0	0	0	22.66
		16QAM	1	0	0	0	22.38
		64QAM	1	0	0	0	21.62
21025	21175	QPSK	1	0	0	0	22.71
		16QAM	1	0	0	0	22.21
		64QAM	1	0	0	0	21.65
21225	21375	QPSK	1	0	0	0	22.79
		16QAM	1	0	0	0	22.26
		64QAM	1	0	0	0	21.72
Combination 15MHz+20MHz							
20828	20999	QPSK	1	74	1	0	22.86
		16QAM	1	74	1	0	22.69
		64QAM	1	74	1	0	22.24
21003	21174	QPSK	1	74	1	0	22.85
		16QAM	1	74	1	0	22.53
		64QAM	1	74	1	0	22.01
21179	21350	QPSK	1	74	1	0	22.81
		16QAM	1	74	1	0	22.62
		64QAM	1	74	1	0	22.05
LTE CA_7C Maximum Average Power (dBm)							
Channel		Modulation	PCC		SCC		Average Power (dBm)
PCC	SCC		RB Size	RB offset	RB Size	RB offset	
Combination 20MHz+15MHz							
20850	21021	QPSK	1	99	1	0	22.79
		16QAM	1	99	1	0	22.72
		64QAM	1	99	1	0	22.45
21026	21197	QPSK	1	99	1	0	22.23
		16QAM	1	99	1	0	22.65
		64QAM	1	99	1	0	22.01
21201	21372	QPSK	1	0	0	0	22.81
		16QAM	1	99	1	0	22.65
		64QAM	1	99	1	0	22.44
Combination 20MHz+20MHz							
20850	21048	QPSK	0	0	1	99	20.68
			1	0	0	0	22.51
			100	0	0	0	21.74
			100	0	100	0	20.78
			1	0	1	99	14.17
			1	0	1	0	14.15
			1	99	1	0	22.72
		16QAM	100	0	1	99	19.17
			0	0	1	99	21.68
			1	0	0	0	21.94
			100	0	0	0	20.74
			100	0	100	0	19.79

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			1	0	1	99	14.58	
			1	0	1	0	14.56	
			1	99	1	0	22.53	
			100	0	1	99	19.21	
		64QAM	0	0	1	99	21.14	
			1	0	0	0	21.33	
			100	0	0	0	19.73	
			100	0	100	0	18.77	
			1	0	1	99	14.55	
			1	0	1	0	14.44	
			1	99	1	0	22.01	
			100	0	1	99	19.15	
				0	0	1	99	22.13
				1	0	0	0	22.47
		QPSK	100	0	0	0	21.79	
			100	0	100	0	20.86	
			1	0	1	99	14.07	
			1	0	1	0	14.06	
			1	99	1	0	22.79	
			100	0	1	99	19.25	
				0	0	1	99	22.06
				1	0	0	0	22.13
			16QAM	100	0	0	0	20.83
				100	0	100	0	19.82
		1		0	1	99	14.72	
		1		0	1	0	14.71	
		1		99	1	0	22.77	
		100		0	1	99	19.29	
				0	0	1	99	22.06
				1	0	0	0	22.13
			100	0	0	0	20.83	
			100	0	100	0	19.82	
			1	0	1	99	14.72	
			1	0	1	0	14.71	
			1	99	1	0	22.77	
			100	0	1	99	19.29	
LTE CA_7C Maximum Average Power (dBm)								
Channel		Modulation	PCC		SCC		Average Power (dBm)	
PCC	SCC		RB Size	RB offset	RB Size	RB offset		
Combination 20MHz+20MHz								
		64QAM	0	0	1	99	21.67	
			1	0	0	0	21.79	
			100	0	0	0	19.78	
			100	0	100	0	18.80	
			1	0	1	99	14.66	
			1	0	1	0	14.65	
			1	99	1	0	22.42	
			100	0	1	99	19.21	
		QPSK	0	0	1	99	22.43	
			1	0	0	0	22.52	
			100	0	0	0	21.92	
			100	0	100	0	20.91	
			1	0	1	99	13.99	
			1	0	1	0	14.01	
			1	99	1	0	22.88	
			100	0	1	99	19.38	
			16QAM	0	0	1	99	21.34
				1	0	0	0	21.51
		100		0	0	0	20.95	
		100		0	100	0	19.91	
		1		0	1	99	14.64	
		1		0	1	0	14.67	
		1		99	1	0	22.77	
		100		0	1	99	19.41	
		64QAM	0	0	1	99	20.34	
			1	0	0	0	20.55	

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			100	0	0	0	19.98
			100	0	100	0	18.95
			1	0	1	99	14.63
			1	0	1	0	14.59
			1	99	1	0	22.43
			100	0	1	99	19.39



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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: FCC 47 CFR Part 27.50(h)(2)
LTE Band 12 & Band 17 & LTE Band 71: FCC 47 CFR Part 27.50(c)(10)
LTE Band 13: FCC 47 CFR Part 27.50(b)(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.

FCC 47 CFR Part 27.50(b)(10):
 Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

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	22.00	21.16	20.71	33.01	0.1585	0.1306	0.1178	2	Pass
Middle	22.09	21.23	20.70	33.01	0.1618	0.1327	0.1175	2	Pass
Highest	22.08	21.22	20.67	33.01	0.1614	0.1324	0.1167	2	Pass
Channel Bandwidth: 3MHz									
Lowest	21.85	20.86	20.30	33.01	0.1531	0.1219	0.1072	2	Pass
Middle	21.97	20.77	21.03	33.01	0.1574	0.1194	0.1268	2	Pass
Highest	21.94	21.42	20.42	33.01	0.1563	0.1387	0.1102	2	Pass
Channel Bandwidth: 5MHz									
Lowest	22.14	21.03	20.57	33.01	0.1637	0.1268	0.1140	2	Pass
Middle	22.20	21.00	20.49	33.01	0.1660	0.1259	0.1119	2	Pass
Highest	22.19	21.34	20.85	33.01	0.1656	0.1361	0.1216	2	Pass
Channel Bandwidth: 10MHz									
Lowest	22.16	20.97	20.55	33.01	0.1644	0.1250	0.1135	2	Pass
Middle	22.19	21.77	21.31	33.01	0.1656	0.1503	0.1352	2	Pass
Highest	22.27	21.23	20.72	33.01	0.1687	0.1327	0.1180	2	Pass
Channel Bandwidth: 15MHz									
Lowest	22.18	21.38	20.90	33.01	0.1652	0.1374	0.1230	2	Pass
Middle	22.22	21.80	21.32	33.01	0.1667	0.1514	0.1355	2	Pass
Highest	22.28	21.23	20.77	33.01	0.1690	0.1327	0.1194	2	Pass
Channel Bandwidth: 20MHz									
Lowest	22.20	21.34	20.91	33.01	0.1660	0.1361	0.1233	2	Pass
Middle	22.36	21.36	20.88	33.01	0.1722	0.1368	0.1225	2	Pass
Highest	22.24	21.81	21.45	33.01	0.1675	0.1517	0.1396	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	19.02	18.17	17.61	30.00	0.0798	0.0656	0.0577	1	Pass
Middle	18.85	17.99	17.44	30.00	0.0767	0.0630	0.0555	1	Pass
Highest	18.79	17.96	17.41	30.00	0.0757	0.0625	0.0551	1	Pass
Channel Bandwidth: 3MHz									
Lowest	18.81	17.64	17.17	30.00	0.0760	0.0581	0.0521	1	Pass
Middle	18.66	18.19	17.64	30.00	0.0735	0.0659	0.0581	1	Pass
Highest	18.59	17.66	17.08	30.00	0.0723	0.0583	0.0511	1	Pass
Channel Bandwidth: 5MHz									
Lowest	19.03	18.02	17.36	30.00	0.0800	0.0634	0.0545	1	Pass
Middle	19.01	17.73	17.59	30.00	0.0796	0.0593	0.0574	1	Pass
Highest	18.90	18.04	17.23	30.00	0.0776	0.0637	0.0528	1	Pass
Channel Bandwidth: 10MHz									
Lowest	19.10	17.95	17.38	30.00	0.0813	0.0624	0.0547	1	Pass
Middle	18.97	18.06	18.01	30.00	0.0789	0.0640	0.0632	1	Pass
Highest	18.84	17.90	17.37	30.00	0.0766	0.0617	0.0546	1	Pass
Channel Bandwidth: 15MHz									
Lowest	19.03	18.26	17.74	30.00	0.0800	0.0670	0.0594	1	Pass
Middle	18.93	18.51	17.99	30.00	0.0782	0.0710	0.0630	1	Pass
Highest	18.92	17.93	17.42	30.00	0.0780	0.0621	0.0552	1	Pass
Channel Bandwidth: 20MHz									
Lowest	19.11	18.20	17.60	30.00	0.0815	0.0661	0.0575	1	Pass
Middle	19.00	18.60	18.03	30.00	0.0794	0.0724	0.0635	1	Pass
Highest	18.85	18.39	17.59	30.00	0.0767	0.0690	0.0574	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	16.28	15.42	14.66	38.45	0.0425	0.0348	0.0292	7	Pass
Middle	16.32	15.45	14.66	38.45	0.0429	0.0351	0.0292	7	Pass
Highest	16.34	15.46	14.54	38.45	0.0431	0.0352	0.0284	7	Pass
Channel Bandwidth: 3MHz									
Lowest	16.28	15.42	14.66	38.45	0.0425	0.0348	0.0292	7	Pass
Middle	16.32	15.45	14.66	38.45	0.0429	0.0351	0.0292	7	Pass
Highest	16.34	15.46	14.54	38.45	0.0431	0.0352	0.0284	7	Pass
Channel Bandwidth: 5MHz									
Lowest	16.44	15.31	13.97	38.45	0.0441	0.0340	0.0249	7	Pass
Middle	16.42	15.21	14.28	38.45	0.0439	0.0332	0.0268	7	Pass
Highest	16.44	15.61	14.08	38.45	0.0441	0.0364	0.0256	7	Pass
Channel Bandwidth: 10MHz									
Lowest	16.46	15.91	14.67	38.45	0.0443	0.0390	0.0293	7	Pass
Middle	16.40	15.41	14.37	38.45	0.0437	0.0348	0.0274	7	Pass
Highest	16.37	15.27	13.93	38.45	0.0434	0.0337	0.0247	7	Pass

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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	16.10	15.05	14.17	33.01	0.0407	0.0320	0.0261	2	Pass
Middle	16.16	14.89	14.00	33.01	0.0413	0.0308	0.0251	2	Pass
Highest	16.27	15.34	14.47	33.01	0.0424	0.0342	0.0280	2	Pass
Channel Bandwidth: 10MHz									
Lowest	16.06	14.94	14.11	33.01	0.0404	0.0312	0.0258	2	Pass
Middle	16.09	15.61	14.78	33.01	0.0406	0.0364	0.0301	2	Pass
Highest	16.21	15.22	14.36	33.01	0.0418	0.0333	0.0273	2	Pass
Channel Bandwidth: 15MHz									
Lowest	16.05	15.29	14.46	33.01	0.0403	0.0338	0.0279	2	Pass
Middle	16.16	15.63	14.80	33.01	0.0413	0.0366	0.0302	2	Pass
Highest	16.21	15.24	14.35	33.01	0.0418	0.0334	0.0272	2	Pass
Channel Bandwidth: 20MHz									
Lowest	16.04	15.18	14.40	33.01	0.0402	0.0330	0.0275	2	Pass
Middle	16.10	15.88	14.36	33.01	0.0407	0.0387	0.0273	2	Pass
Highest	16.29	15.36	14.79	33.01	0.0426	0.0344	0.0301	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	15.92	15.11	14.61	34.77	0.0391	0.0324	0.0289	3	Pass
Middle	15.87	15.04	14.54	34.77	0.0386	0.0319	0.0284	3	Pass
Highest	15.82	14.94	14.48	34.77	0.0382	0.0312	0.0281	3	Pass
Channel Bandwidth: 3MHz									
Lowest	15.79	14.59	14.10	34.77	0.0379	0.0288	0.0257	3	Pass
Middle	15.66	15.26	14.84	34.77	0.0368	0.0336	0.0305	3	Pass
Highest	15.67	14.67	14.19	34.77	0.0369	0.0293	0.0262	3	Pass
Channel Bandwidth: 5MHz									
Lowest	15.99	14.91	14.49	34.77	0.0397	0.0310	0.0281	3	Pass
Middle	16.00	14.82	14.34	34.77	0.0398	0.0303	0.0272	3	Pass
Highest	15.98	15.10	14.59	34.77	0.0396	0.0324	0.0288	3	Pass
Channel Bandwidth: 10MHz									
Lowest	16.04	15.01	15.11	34.77	0.0402	0.0317	0.0324	3	Pass
Middle	15.94	14.84	14.55	34.77	0.0393	0.0305	0.0285	3	Pass
Highest	15.94	15.52	14.38	34.77	0.0393	0.0356	0.0274	3	Pass

5.3.6 LTE Band 13

Channel	Maximum ERP (dBm)				Maximum ERP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 5MHz									
Lowest	15.73	14.60	14.17	34.77	0.0374	0.0288	0.0261	3	Pass
Middle	15.70	14.48	14.09	34.77	0.0372	0.0281	0.0256	3	Pass
Highest	15.74	14.91	14.45	34.77	0.0375	0.0310	0.0279	3	Pass
Channel Bandwidth: 10MHz									
Lowest	/	/	/	34.77	/	/	/	3	Pass
Middle	15.77	15.31	14.81	34.77	0.0378	0.0340	0.0303	3	Pass
Highest	/	/	/	34.77	/	/	/	3	Pass

5.3.7 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	15.84	14.66	14.25	34.77	0.0384	0.0292	0.0266	3	Pass
Middle	15.86	15.04	14.15	34.77	0.0385	0.0319	0.0260	3	Pass
Highest	15.82	14.74	14.52	34.77	0.0382	0.0298	0.0283	3	Pass
Channel Bandwidth: 10MHz									
Lowest	15.90	15.42	14.92	34.77	0.0389	0.0348	0.0310	3	Pass
Middle	15.82	14.88	14.34	34.77	0.0382	0.0308	0.0272	3	Pass
Highest	15.84	14.65	14.17	34.77	0.0384	0.0292	0.0261	3	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	18.99	18.12	17.61	30.00	0.0793	0.0649	0.0577	1	Pass
Middle	18.84	17.97	17.45	30.00	0.0766	0.0627	0.0556	1	Pass
Highest	18.66	17.77	17.27	30.00	0.0735	0.0598	0.0533	1	Pass
Channel Bandwidth: 3MHz									
Lowest	18.83	17.62	17.15	30.00	0.0764	0.0578	0.0519	1	Pass
Middle	18.61	18.17	17.64	30.00	0.0726	0.0656	0.0581	1	Pass
Highest	18.49	17.49	17.02	30.00	0.0706	0.0561	0.0504	1	Pass
Channel Bandwidth: 5MHz									
Lowest	19.12	17.98	17.46	30.00	0.0817	0.0628	0.0557	1	Pass
Middle	18.93	17.68	17.25	30.00	0.0782	0.0586	0.0531	1	Pass
Highest	18.82	17.90	17.43	30.00	0.0762	0.0617	0.0553	1	Pass
Channel Bandwidth: 10MHz									
Lowest	19.12	17.88	17.40	30.00	0.0817	0.0614	0.0550	1	Pass
Middle	18.92	18.48	17.54	30.00	0.0780	0.0705	0.0568	1	Pass
Highest	18.75	17.73	17.28	30.00	0.0750	0.0593	0.0535	1	Pass
Channel Bandwidth: 15MHz									
Lowest	19.08	18.32	17.78	30.00	0.0809	0.0679	0.0600	1	Pass
Middle	18.93	18.45	17.99	30.00	0.0782	0.0700	0.0630	1	Pass
Highest	18.79	17.79	17.33	30.00	0.0757	0.0601	0.0541	1	Pass
Channel Bandwidth: 20MHz									
Lowest	19.13	18.28	17.74	30.00	0.0818	0.0673	0.0594	1	Pass
Middle	18.99	18.02	18.00	30.00	0.0793	0.0634	0.0631	1	Pass
Highest	18.81	18.50	17.46	30.00	0.0760	0.0708	0.0557	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	17.89	16.83	16.21	33.01	0.0615	0.0482	0.0418	3	Pass
Middle	17.92	16.77	16.22	33.01	0.0619	0.0475	0.0419	3	Pass
Highest	17.91	17.12	16.52	33.01	0.0618	0.0515	0.0449	3	Pass
Channel Bandwidth: 10MHz									
Lowest	17.87	16.78	16.18	33.01	0.0612	0.0476	0.0415	3	Pass
Middle	17.89	17.57	16.95	33.01	0.0615	0.0571	0.0495	3	Pass
Highest	17.88	16.94	16.37	33.01	0.0614	0.0494	0.0434	3	Pass
Channel Bandwidth: 15MHz									
Lowest	17.82	17.15	16.55	33.01	0.0605	0.0519	0.0452	3	Pass
Middle	17.88	17.59	16.97	33.01	0.0614	0.0574	0.0498	3	Pass
Highest	17.91	16.89	16.40	33.01	0.0618	0.0489	0.0437	3	Pass
Channel Bandwidth: 20MHz									
Lowest	17.84	17.04	16.44	33.01	0.0608	0.0506	0.0441	3	Pass
Middle	17.96	17.08	16.48	33.01	0.0625	0.0511	0.0445	3	Pass
Highest	17.82	17.70	17.04	33.01	0.0605	0.0589	0.0506	3	Pass

5.2.1 LTE CA_7C

LTE CA_7C Maximum EIRP (dBm)									
Channel		Modulation	PCC		SCC		EIRP (dBm)	Limit (dBm)	Result
PCC	SCC		RB Size	RB offset	RB Size	RB offset			
Combination 10MHz+20MHz									
20805	20949	QPSK	1	49	1	0	16.87	33.01	Pass
		16QAM	1	49	1	0	16.58	33.01	Pass
		64QAM	1	49	1	0	16.17	33.01	Pass
21006	21150	QPSK	1	49	1	0	16.85	33.01	Pass
		16QAM	1	49	1	0	16.19	33.01	Pass
		64QAM	1	49	1	0	15.23	33.01	Pass
21206	21350	QPSK	1	49	0	0	16.85	33.01	Pass
		16QAM	1	49	1	0	16.09	33.01	Pass
		64QAM	1	49	1	0	15.03	33.01	Pass
Combination 20MHz+10MHz									
20850	20994	QPSK	1	99	1	0	16.74	33.01	Pass
		16QAM	1	99	1	0	16.68	33.01	Pass
		64QAM	1	99	1	0	16.26	33.01	Pass
21051	21195	QPSK	1	99	1	0	16.70	33.01	Pass
		16QAM	1	99	1	0	16.78	33.01	Pass
		64QAM	1	99	1	0	16.43	33.01	Pass
21251	21395	QPSK	1	0	0	0	16.81	33.01	Pass
		16QAM	1	99	1	0	16.77	33.01	Pass
		64QAM	1	99	1	0	16.73	33.01	Pass
Combination 15MHz+10MHz									
20825	20945	QPSK	1	74	1	0	16.82	33.01	Pass
		16QAM	1	74	1	0	16.51	33.01	Pass
		64QAM	1	74	1	0	15.99	33.01	Pass
21051	21171	QPSK	1	74	1	0	16.83	33.01	Pass
		16QAM	1	74	1	0	16.59	33.01	Pass
		64QAM	1	74	1	0	16.01	33.01	Pass
21277	21397	QPSK	1	74	1	0	16.78	33.01	Pass
		16QAM	1	74	1	0	16.45	33.01	Pass
		64QAM	1	74	1	0	15.73	33.01	Pass
Combination 15MHz+15MHz									
20825	20975	QPSK	1	0	0	0	16.66	33.01	Pass
		16QAM	1	0	0	0	16.38	33.01	Pass
		64QAM	1	0	0	0	15.62	33.01	Pass
21025	21175	QPSK	1	0	0	0	16.71	33.01	Pass
		16QAM	1	0	0	0	16.21	33.01	Pass
		64QAM	1	0	0	0	15.65	33.01	Pass
21225	21375	QPSK	1	0	0	0	16.79	33.01	Pass
		16QAM	1	0	0	0	16.26	33.01	Pass
		64QAM	1	0	0	0	15.72	33.01	Pass

LTE CA_7C EIRP (dBm)									
Channel		Modulation	PCC		SCC		EIRP (dBm)	Limit (dBm)	Result
PCC	SCC		RB Size	RB offset	RB Size	RB offset			
Combination 15MHz+20MHz									
20828	20999	QPSK	1	74	1	0	16.86	33.01	Pass
		16QAM	1	74	1	0	16.69	33.01	Pass
		64QAM	1	74	1	0	16.24	33.01	Pass
21003	21174	QPSK	1	74	1	0	16.85	33.01	Pass
		16QAM	1	74	1	0	16.53	33.01	Pass
		64QAM	1	74	1	0	16.01	33.01	Pass
21179	21350	QPSK	1	74	1	0	16.81	33.01	Pass
		16QAM	1	74	1	0	16.62	33.01	Pass
		64QAM	1	74	1	0	16.05	33.01	Pass
Combination 20MHz+15MHz									
20850	21021	QPSK	1	99	1	0	16.79	33.01	Pass
		16QAM	1	99	1	0	16.72	33.01	Pass
		64QAM	1	99	1	0	16.45	33.01	Pass
21026	21197	QPSK	1	99	1	0	16.23	33.01	Pass
		16QAM	1	99	1	0	16.65	33.01	Pass
		64QAM	1	99	1	0	16.01	33.01	Pass
21201	21372	QPSK	1	0	0	0	16.81	33.01	Pass
		16QAM	1	99	1	0	16.65	33.01	Pass
		64QAM	1	99	1	0	16.44	33.01	Pass
Combination 20MHz+20MHz									
20850	21048	QPSK	1	99	1	0	16.72	33.01	Pass
		16QAM	1	99	1	0	16.53	33.01	Pass
		64QAM	1	99	1	0	16.01	33.01	Pass
21001	21199	QPSK	1	99	1	0	16.79	33.01	Pass
		16QAM	1	99	1	0	16.77	33.01	Pass
		64QAM	1	99	1	0	16.42	33.01	Pass
21152	21350	QPSK	1	99	1	0	16.88	33.01	Pass
		16QAM	1	99	1	0	16.77	33.01	Pass
		64QAM	1	99	1	0	16.43	33.01	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: FCC 47 CFR Part 27.50(d)(5)
	LTE Band 12 & Band 17 & LTE Band 71: FCC 47 CFR Part 27.50(d)(5)
LTE Band 13: 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 \geq 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: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12 & Band 17 & LTE Band 71:: FCC 47 CFR Part 27.53(g)
LTE Band 13: FCC 47 CFR Part 27.53(c)(2)

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 than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC 47 CFR Part 27.53(c)(2):

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

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: FCC 47 CFR Part 27.53(m)(4)
LTE Band 12 & Band 17 & LTE Band 71: FCC 47 CFR Part 27.53(g)
LTE Band 13: FCC 47 CFR Part 27.53

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), 27.53(c)(2):

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: FCC 47 CFR Part 27.53(m)(4)
 LTE Band 12 & Band 17& LTE Band 71: FCC 47 CFR Part 27.53(g)
 LTE Band 13: FCC 47 CFR Part 27.53

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.

FCC 47 CFR Part 27.53:

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

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

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 (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	838.887	-81.7	13.1	-68.6	-13.0	-55.6	Horizontal
2	912.695	-82.2	14.4	-67.8	-13.0	-54.8	Horizontal
3	972.283	-81.6	14.6	-67.0	-13.0	-54.0	Horizontal
4	3720	-49.5	7.8	-41.8	-13.0	-28.8	Horizontal
5	5580	-62.0	11.4	-50.6	-13.0	-37.6	Horizontal
6	684.226	-80.9	11.4	-69.5	-13.0	-56.5	Vertical
7	754.963	-80.8	12.1	-68.7	-13.0	-55.7	Vertical
8	992.997	-82.4	14.8	-67.6	-13.0	-54.6	Vertical
9	3720	-46.3	7.8	-38.5	-13.0	-25.5	Vertical
10	5580	-64.3	11.4	-52.8	-13.0	-39.8	Vertical
Middle Channel							
1	651.383	-81.4	11.0	-70.3	-13.0	-57.3	Horizontal
2	793.028	-82.3	13.0	-69.3	-13.0	-56.3	Horizontal
3	925.613	-82.1	14.7	-67.4	-13.0	-54.4	Horizontal
4	3760	-58.9	7.9	-51.1	-13.0	-38.1	Horizontal
5	5640	-64.8	11.4	-53.4	-13.0	-40.4	Horizontal
6	749.676	-81.3	12.0	-69.4	-13.0	-56.4	Vertical
7	809.924	-81.6	12.7	-68.9	-13.0	-55.9	Vertical
8	938.714	-82.3	14.7	-67.6	-13.0	-54.6	Vertical
9	3760	-50.4	7.9	-42.5	-13.0	-29.5	Vertical
10	5640	-61.9	11.4	-50.6	-13.0	-37.6	Vertical
Highest Channel							
1	798.62	-82.4	13.0	-69.4	-13.0	-56.4	Horizontal
2	838.887	-81.9	13.1	-68.9	-13.0	-55.9	Horizontal
3	899.958	-81.6	14.3	-67.3	-13.0	-54.3	Horizontal
4	3800	-45.6	8.0	-37.6	-13.0	-24.6	Horizontal
5	5700	-65.1	11.3	-53.8	-13.0	-40.8	Horizontal
6	679.435	-81.6	11.3	-70.3	-13.0	-57.3	Vertical
7	776.485	-82.0	12.7	-69.3	-13.0	-56.3	Vertical
8	899.958	-82.8	14.3	-68.5	-13.0	-55.5	Vertical
9	3800	-42.6	8.0	-34.6	-13.0	-21.6	Vertical
10	5700	-65.0	11.3	-53.7	-13.0	-40.7	Vertical

5.8.2 LTE Band 4

LTE Band 4_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	739.214	-81.3	11.8	-69.5	-13.0	-56.5	Horizontal
2	868.886	-81.9	13.7	-68.2	-13.0	-55.2	Horizontal
3	932.141	-82.2	14.9	-67.3	-13.0	-54.3	Horizontal
4	3440	-54.3	6.8	-47.6	-13.0	-34.6	Horizontal
5	5160	-60.4	10.0	-50.4	-13.0	-37.4	Horizontal
6	679.435	-80.4	11.3	-69.1	-13.0	-56.1	Vertical
7	776.485	-81.9	12.7	-69.1	-13.0	-56.1	Vertical
8	938.714	-82.6	14.7	-67.9	-13.0	-54.9	Vertical
9	3440	-56.0	6.8	-49.3	-13.0	-36.3	Vertical
10	5160	-62.8	10.0	-52.9	-13.0	-39.9	Vertical
Middle Channel							
1	708.694	-81.1	11.7	-69.4	-13.0	-56.4	Horizontal
2	815.635	-81.7	12.7	-69.0	-13.0	-56.0	Horizontal
3	952.000	-81.7	14.5	-67.2	-13.0	-54.2	Horizontal
4	3465	-52.1	6.9	-45.2	-13.0	-32.2	Horizontal
5	5197.5	-53.2	10.1	-43.1	-13.0	-30.1	Horizontal
6	744.427	-81.8	11.9	-69.9	-13.0	-56.9	Vertical
7	868.886	-81.8	13.7	-68.1	-13.0	-55.1	Vertical
8	925.613	-82.0	14.7	-67.3	-13.0	-54.3	Vertical
9	3465	-50.6	6.9	-43.7	-13.0	-30.7	Vertical
10	5197.5	-57.4	10.1	-47.4	-13.0	-34.4	Vertical
Highest Channel							
1	754.963	-81.1	12.1	-69.1	-13.0	-56.1	Horizontal
2	798.62	-82.0	13.0	-69.0	-13.0	-56.0	Horizontal
3	881.184	-81.6	13.7	-68.0	-13.0	-55.0	Horizontal
4	3490	-53.6	7.0	-46.6	-13.0	-33.6	Horizontal
5	5235	-56.7	10.3	-46.4	-13.0	-33.4	Horizontal
6	679.435	-80.6	11.3	-69.3	-13.0	-56.3	Vertical
7	781.961	-81.6	12.8	-68.8	-13.0	-55.8	Vertical
8	925.613	-82.8	14.7	-68.1	-13.0	-55.1	Vertical
9	3490	-52.8	7.0	-45.8	-13.0	-32.8	Vertical
10	5235	-60.8	10.3	-50.6	-13.0	-37.6	Vertical

5.8.3 LTE Band 5

LTE Band 5_ 10 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	655.977	-87.8	39.9	-47.8	-13.0	-34.8	Horizontal
2	708.694	-87.6	40.5	-47.1	-13.0	-34.1	Horizontal
3	925.613	-87.1	43.2	-43.9	-13.0	-30.9	Horizontal
4	1658	-55.9	0.2	-55.7	-13.0	-42.7	Horizontal
5	2487	-51.1	3.8	-47.3	-13.0	-34.3	Horizontal
6	693.91	-88.2	40.7	-47.6	-13.0	-34.6	Vertical
7	765.648	-87.1	41.2	-45.9	-13.0	-32.9	Vertical
8	986.044	-86.4	43.1	-43.3	-13.0	-30.3	Vertical
9	1658	-52.5	0.2	-52.4	-13.0	-39.4	Vertical
10	2487	-52.2	3.8	-48.4	-13.0	-35.4	Vertical
Middle Channel							
1	698.804	-87.9	40.8	-47.1	-13.0	-34.1	Horizontal
2	787.475	-86.8	41.7	-45.1	-13.0	-32.1	Horizontal
3	919.132	-86.4	43.0	-43.3	-13.0	-30.3	Horizontal
4	1673	-57.8	0.3	-57.5	-13.0	-44.5	Horizontal
5	2509.5	-58.4	3.9	-54.5	-13.0	-41.5	Horizontal
6	703.731	-87.8	40.7	-47.1	-13.0	-34.1	Vertical
7	771.047	-87.4	41.3	-46.1	-13.0	-33.1	Vertical
8	919.132	-86.7	43.0	-43.7	-13.0	-30.7	Vertical
9	1673	-58.4	0.3	-58.2	-13.0	-45.2	Vertical
10	2509.5	-58.4	3.9	-54.5	-13.0	-41.5	Vertical
Highest Channel							
1	509.356	-87.1	36.5	-50.6	-13.0	-37.6	Horizontal
2	633.328	-87.3	39.3	-48.0	-13.0	-35.0	Horizontal
3	986.044	-87.9	43.1	-44.9	-13.0	-31.9	Horizontal
4	1688	-57.8	0.4	-57.5	-13.0	-44.5	Horizontal
5	2532	-54.9	3.9	-50.9	-13.0	-37.9	Horizontal
6	655.977	-88.1	39.9	-48.2	-13.0	-35.2	Vertical
7	689.051	-87.7	40.4	-47.3	-13.0	-34.3	Vertical
8	972.283	-85.7	43.0	-42.8	-13.0	-29.8	Vertical
9	1688	-58.8	0.4	-58.4	-13.0	-45.4	Vertical
10	2532	-58.7	3.9	-54.7	-13.0	-41.7	Vertical

5.8.4 LTE Band 7

LTE Band 7_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	684.226	-80.3	11.4	-68.9	-25.0	-43.9	Horizontal
2	833.013	-81.4	13.1	-68.3	-25.0	-43.3	Horizontal
3	932.141	-82.2	14.9	-67.3	-25.0	-42.3	Horizontal
4	5020	-57.5	9.6	-47.9	-25.0	-22.9	Horizontal
5	7530	-51.9	13.6	-38.3	-25.0	-13.3	Horizontal
6	665.261	-80.8	10.6	-70.1	-25.0	-45.1	Vertical
7	798.62	-82.0	13.0	-69.0	-25.0	-44.0	Vertical
8	925.613	-82.5	14.7	-67.8	-25.0	-42.8	Vertical
9	5020	-59.0	9.6	-49.4	-25.0	-24.4	Vertical
10	7530	-55.1	13.6	-41.5	-25.0	-16.5	Vertical
Middle Channel							
1	718.725	-80.4	11.4	-69.0	-25.0	-44.0	Horizontal
2	793.028	-81.9	13.0	-68.9	-25.0	-43.9	Horizontal
3	932.141	-82.7	14.9	-67.8	-25.0	-42.8	Horizontal
4	5070	-52.9	9.7	-43.1	-25.0	-18.1	Horizontal
5	7605	-53.1	13.7	-39.3	-25.0	-14.3	Horizontal
6	679.435	-81.3	11.3	-70.0	-25.0	-45.0	Vertical
7	844.803	-81.6	13.2	-68.4	-25.0	-43.4	Vertical
8	893.656	-81.2	14.1	-67.1	-25.0	-42.1	Vertical
9	5070	-54.3	9.7	-44.6	-25.0	-19.6	Vertical
10	7605	-54.2	13.7	-40.5	-25.0	-15.5	Vertical
Highest Channel							
1	793.028	-81.8	13.0	-68.8	-25.0	-43.8	Horizontal
2	827.179	-81.3	12.8	-68.5	-25.0	-43.5	Horizontal
3	932.141	-82.4	14.9	-67.5	-25.0	-42.5	Horizontal
4	5120	-53.5	9.9	-43.6	-25.0	-18.6	Horizontal
5	7680	-53.5	13.9	-39.6	-25.0	-14.6	Horizontal
6	689.051	-81.0	11.6	-69.4	-25.0	-44.4	Vertical
7	868.886	-81.6	13.7	-67.9	-25.0	-42.9	Vertical
8	919.132	-82.2	14.5	-67.7	-25.0	-42.7	Vertical
9	5120	-55.8	9.9	-45.9	-25.0	-20.9	Vertical
10	7680	-54.4	13.9	-40.6	-25.0	-15.6	Vertical

5.8.5 LTE Band 12

LTE Band 12_ 10 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	838.887	-87.0	41.8	-45.3	-13.0	-32.3	Horizontal
2	899.958	-87.2	42.9	-44.3	-13.0	-31.3	Horizontal
3	979.139	-86.6	43.2	-43.4	-13.0	-30.4	Horizontal
4	1408	-33.0	-1.1	-34.1	-13.0	-21.1	Horizontal
5	2112	-60.8	2.4	-58.4	-13.0	-45.4	Horizontal
6	776.485	-86.9	41.5	-45.4	-13.0	-32.4	Vertical
7	844.803	-86.9	41.9	-45.1	-13.0	-32.1	Vertical
8	919.132	-87.1	43.0	-44.1	-13.0	-31.1	Vertical
9	1408	-31.6	-1.1	-32.7	-13.0	-19.7	Vertical
10	2112	-56.3	2.4	-53.9	-13.0	-40.9	Vertical
Middle Channel							
1	660.602	-87.2	39.6	-47.6	-13.0	-34.6	Horizontal
2	798.62	-88.2	41.8	-46.4	-13.0	-33.4	Horizontal
3	972.283	-87.2	43.0	-44.2	-13.0	-31.2	Horizontal
4	1415	-33.2	-1.0	-34.2	-13.0	-21.2	Horizontal
5	2122.5	-58.8	2.4	-56.4	-13.0	-43.4	Horizontal
6	809.924	-86.8	41.5	-45.4	-13.0	-32.4	Vertical
7	838.887	-86.2	41.8	-44.4	-13.0	-31.4	Vertical
8	1000	-86.3	43.3	-43.0	-13.0	-30.0	Vertical
9	1415	-31.7	-1.0	-32.7	-13.0	-19.7	Vertical
10	2122.5	-58.5	2.4	-56.0	-13.0	-43.0	Vertical
Highest Channel							
1	611.462	-88.2	38.9	-49.3	-13.0	-36.3	Horizontal
2	760.287	-87.3	41.1	-46.2	-13.0	-33.2	Horizontal
3	952	-86.4	42.9	-43.5	-13.0	-30.5	Horizontal
4	1422	-35.2	-1.0	-36.2	-13.0	-23.2	Horizontal
5	2133	-58.2	2.4	-55.8	-13.0	-42.8	Horizontal
6	550.29	-87.6	37.5	-50.2	-13.0	-37.2	Vertical
7	787.475	-87.7	41.7	-46.0	-13.0	-33.0	Vertical
8	938.714	-86.9	43.2	-43.7	-13.0	-30.7	Vertical
9	1422	-32.6	-1.0	-33.6	-13.0	-20.6	Vertical
10	2133	-57.9	2.4	-55.4	-13.0	-42.4	Vertical

5.8.6 LTE Band 13

LTE Band 13_ 10 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Middle Channel							
1	723.793	-87.2	40.4	-46.8	-13.0	-33.8	Horizontal
2	868.886	-86.7	42.3	-44.4	-13.0	-31.4	Horizontal
3	945.334	-87.0	42.9	-44.1	-13.0	-31.1	Horizontal
4	1564	-42.4	-0.4	-42.7	-40.0	-2.7	Horizontal
5	2346	-54.4	3.2	-51.2	-13.0	-38.2	Horizontal
6	615.774	-87.4	39.1	-48.3	-13.0	-35.3	Vertical
7	932.141	-87.5	43.3	-44.2	-13.0	-31.2	Vertical
8	986.044	-86.9	43.1	-43.8	-13.0	-30.8	Vertical
9	1564	-41.8	-0.4	-42.2	-40.0	-2.2	Vertical
10	2346	-53.9	3.2	-50.7	-13.0	-37.7	Vertical

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5.8.7 LTE Band 17

LTE Band 17_ 5 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	651.383	-87.9	39.9	-48.1	-13.0	-35.1	Horizontal
2	793.028	-87.9	41.8	-46.1	-13.0	-33.1	Horizontal
3	952.000	-87.1	42.9	-44.1	-13.0	-31.1	Horizontal
4	1418	-35.4	-1.0	-36.4	-13.0	-23.4	Horizontal
5	2127	-58.9	2.4	-56.5	-13.0	-43.5	Horizontal
6	646.822	-86.7	39.8	-47.0	-13.0	-34.0	Vertical
7	771.047	-87.0	41.3	-45.7	-13.0	-32.7	Vertical
8	925.613	-85.5	43.2	-42.3	-13.0	-29.3	Vertical
9	1418	-33.3	-1.0	-34.3	-13.0	-21.3	Vertical
10	2127	-57.7	2.4	-55.3	-13.0	-42.3	Vertical
Middle Channel							
1	535.038	-87.1	36.9	-50.2	-13.0	-37.2	Horizontal
2	798.62	-86.6	41.8	-44.9	-13.0	-31.9	Horizontal
3	952.000	-86.9	42.9	-43.9	-13.0	-30.9	Horizontal
4	1420	-36.6	-1.0	-37.5	-13.0	-24.5	Horizontal
5	2130	-59.7	2.4	-57.3	-13.0	-44.3	Horizontal
6	550.29	-86.4	37.5	-48.9	-13.0	-35.9	Vertical
7	787.475	-86.5	41.7	-44.8	-13.0	-31.8	Vertical
8	952.000	-86.6	42.9	-43.6	-13.0	-30.6	Vertical
9	1420	-34.1	-1.0	-35.1	-13.0	-22.1	Vertical
10	2130	-58.9	2.4	-56.5	-13.0	-43.5	Vertical
Highest Channel							
1	554.171	-87.3	37.4	-49.9	-13.0	-36.9	Horizontal
2	793.028	-87.6	41.8	-45.8	-13.0	-32.8	Horizontal
3	932.141	-87.8	43.3	-44.4	-13.0	-31.4	Horizontal
4	1422	-35.3	-1.0	-36.3	-13.0	-23.3	Horizontal
5	2133	-57.7	2.4	-55.3	-13.0	-42.3	Horizontal
6	850.76	-86.4	41.8	-44.7	-13.0	-31.7	Vertical
7	875.013	-87.0	42.6	-44.4	-13.0	-31.4	Vertical
8	925.613	-86.0	43.2	-42.8	-13.0	-29.8	Vertical
9	1422	-34.0	-1.0	-35.0	-13.0	-22.0	Vertical
10	2133	-56.7	2.4	-54.3	-13.0	-41.3	Vertical

5.8.8 LTE Band 66

LTE Band 66_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	838.887	-81.3	13.1	-68.3	-13.0	-55.3	Horizontal
2	919.132	-82.0	14.5	-67.5	-13.0	-54.5	Horizontal
3	1000	-81.1	15.0	-66.1	-13.0	-53.1	Horizontal
4	3440	-51.7	6.8	-44.9	-13.0	-31.9	Horizontal
5	5160	-54.9	10.0	-44.9	-13.0	-31.9	Horizontal
6	660.602	-80.5	10.8	-69.8	-13.0	-56.8	Vertical
7	793.028	-81.8	13.0	-68.8	-13.0	-55.8	Vertical
8	938.714	-82.6	14.7	-67.9	-13.0	-54.9	Vertical
9	3440	-54.4	6.8	-47.6	-13.0	-34.6	Vertical
10	5160	-59.4	10.0	-49.4	-13.0	-36.4	Vertical
Middle Channel							
1	739.214	-81.1	11.8	-69.3	-13.0	-56.3	Horizontal
2	844.803	-81.8	13.2	-68.6	-13.0	-55.6	Horizontal
3	932.141	-82.2	14.9	-67.4	-13.0	-54.4	Horizontal
4	3490	-55.4	7.0	-48.4	-13.0	-35.4	Horizontal
5	5235	-58.6	10.3	-48.3	-13.0	-35.3	Horizontal
6	698.804	-81.8	12.0	-69.8	-13.0	-56.8	Vertical
7	787.475	-81.7	12.9	-68.8	-13.0	-55.8	Vertical
8	945.334	-82.1	14.4	-67.7	-13.0	-54.7	Vertical
9	3490	-56.8	7.0	-49.8	-13.0	-36.8	Vertical
10	5235	-61.8	10.3	-51.6	-13.0	-38.6	Vertical
Highest Channel							
1	651.383	-80.8	11.0	-69.8	-13.0	-56.8	Horizontal
2	754.963	-80.3	12.1	-68.2	-13.0	-55.2	Horizontal
3	1000	-82.3	15.0	-67.3	-13.0	-54.3	Horizontal
4	3540	-51.9	7.2	-44.7	-13.0	-31.7	Horizontal
5	5310	-57.3	10.6	-46.7	-13.0	-33.7	Horizontal
6	776.485	-81.9	12.7	-69.2	-13.0	-56.2	Vertical
7	925.613	-82.1	14.7	-67.3	-13.0	-54.3	Vertical
8	986.044	-82.9	14.7	-68.2	-13.0	-55.2	Vertical
9	3540	-55.9	7.2	-48.7	-13.0	-35.7	Vertical
10	5310	-61.1	10.6	-50.5	-13.0	-37.5	Vertical

5.8.9 LTE Band 71

LTE Band 71_ 20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	798.62	-86.8	41.8	-45.0	-13.0	-32.0	Horizontal
2	945.334	-86.7	42.9	-43.9	-13.0	-30.9	Horizontal
3	1000	-86.7	43.3	-43.4	-13.0	-30.4	Horizontal
4	1346	-33.0	-1.3	-34.3	-13.0	-21.3	Horizontal
5	2019	-47.9	2.1	-45.8	-13.0	-32.8	Horizontal
6	655.977	-88.0	39.9	-48.0	-13.0	-35.0	Vertical
7	787.475	-87.5	41.7	-45.7	-13.0	-32.7	Vertical
8	925.613	-86.2	43.2	-43.0	-13.0	-30.0	Vertical
9	1346	-32.9	-1.3	-34.2	-13.0	-21.2	Vertical
10	2019	-45.6	2.1	-43.5	-13.0	-30.5	Vertical
Middle Channel							
1	838.887	-87.1	41.8	-45.3	-13.0	-32.3	Horizontal
2	899.958	-87.1	42.9	-44.3	-13.0	-31.3	Horizontal
3	965.474	-86.1	42.8	-43.3	-13.0	-30.3	Horizontal
4	1366	-34.5	-1.2	-35.7	-13.0	-22.7	Horizontal
5	2049	-53.6	2.2	-51.4	-13.0	-38.4	Horizontal
6	793.028	-87.5	41.8	-45.7	-13.0	-32.7	Vertical
7	875.013	-87.3	42.6	-44.7	-13.0	-31.7	Vertical
8	938.714	-86.5	43.2	-43.3	-13.0	-30.3	Vertical
9	1366	-33.9	-1.2	-35.1	-13.0	-22.1	Vertical
10	2049	-47.7	2.2	-45.5	-13.0	-32.5	Vertical
Highest Channel							
1	804.252	-87.1	41.7	-45.4	-13.0	-32.4	Horizontal
2	875.013	-86.3	42.6	-43.7	-13.0	-30.7	Horizontal
3	925.613	-86.8	43.2	-43.6	-13.0	-30.6	Horizontal
4	1376	-36.6	-1.2	-37.8	-13.0	-24.8	Horizontal
5	2064	-53.3	2.3	-51.0	-13.0	-38.0	Horizontal
6	787.475	-87.4	41.7	-45.7	-13.0	-32.7	Vertical
7	875.013	-87.5	42.6	-44.9	-13.0	-31.9	Vertical
8	938.714	-86.6	43.2	-43.4	-13.0	-30.4	Vertical
9	1376	-35.7	-1.2	-36.9	-13.0	-23.9	Vertical
10	2064	-53.0	2.3	-50.7	-13.0	-37.7	Vertical

5.8.10 LTE CA_7C

LTE CA_7C_ 20 MHz+20 MHz_ QPSK							
No.	Frequency (MHz)	SA Reading (dBm)	Correction factor (dB/m)	EIRP Result (dBm)	Limit (dBm)	Margin (dB)	Ant. Pol.
Lowest Channel							
1	611.462	-79.6	10.1	-69.5	-25.0	-44.5	Horizontal
2	708.694	-80.1	11.7	-68.4	-25.0	-43.4	Horizontal
3	899.958	-81.2	14.3	-66.8	-25.0	-41.8	Horizontal
4	7530.000	-43.8	13.6	-30.2	-25.0	-5.2	Horizontal
5	10040.000	-50.2	17.5	-32.7	-25.0	-7.7	Horizontal
6	698.804	-80.6	12.0	-68.5	-25.0	-43.5	Vertical
7	906.304	-80.9	14.4	-66.5	-25.0	-41.5	Vertical
8	952.000	-80.9	14.5	-66.4	-25.0	-41.4	Vertical
9	7530.000	-51.3	13.6	-37.7	-25.0	-12.7	Vertical
10	10040.000	-59.4	17.5	-41.9	-25.0	-16.9	Vertical
Middle Channel							
1	602.929	-79.2	10.0	-69.2	-25.0	-44.2	Horizontal
2	793.028	-79.1	13.0	-66.1	-25.0	-41.1	Horizontal
3	938.714	-81.5	14.7	-66.8	-25.0	-41.8	Horizontal
4	7575.300	-47.2	13.7	-33.5	-25.0	-8.5	Horizontal
5	10100.400	-53.8	17.5	-36.3	-25.0	-11.3	Horizontal
6	771.047	-81.1	12.5	-68.5	-25.0	-43.5	Vertical
7	887.398	-81.4	13.9	-67.6	-25.0	-42.6	Vertical
8	979.139	-82.2	14.9	-67.3	-25.0	-42.3	Vertical
9	7575.300	-53.2	13.7	-39.5	-25.0	-14.5	Vertical
10	10100.400	-57.2	17.5	-39.6	-25.0	-14.6	Vertical
Highest Channel							
1	689.051	-80.4	11.6	-68.8	-25.0	-43.8	Horizontal
2	798.620	-80.4	13.0	-67.4	-25.0	-42.4	Horizontal
3	838.887	-80.4	13.1	-67.3	-25.0	-42.3	Horizontal
4	7620.600	-48.7	13.8	-34.9	-25.0	-9.9	Horizontal
5	10160.800	-58.0	17.6	-40.4	-25.0	-15.4	Horizontal
6	602.929	-80.7	10.0	-70.7	-25.0	-45.7	Vertical
7	760.287	-80.3	12.3	-68.0	-25.0	-43.0	Vertical
8	932.141	-82.6	14.9	-67.7	-25.0	-42.7	Vertical
9	7620.600	-52.9	13.8	-39.1	-25.0	-14.1	Vertical
10	10160.800	-60.4	17.6	-42.7	-25.0	-17.7	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

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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 $+50^{\circ}$ Ca
 - b) Voltage =low voltage, 3.435 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 20° C 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 $+50^{\circ}$ C 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 ($^{\circ}$ C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Result
LTE Band 2 / 20MHz / Full RB							
QPSK	18900 / 1880.0	VL	TN	-5.18	-0.0028	Note 1	Pass
		VN		-6.67	-0.0035		Pass
		VH		-8.59	-0.0046		Pass
		VN	50	-4.88	-0.0026		Pass
			40	-5.32	-0.0028		Pass
			30	-7.44	-0.0040		Pass
			20	-6.67	-0.0035		Pass
			10	-10.26	-0.0055		Pass
			0	-5.31	-0.0028		Pass
			-10	-6.37	-0.0034		Pass
			-20	-4.57	-0.0024		Pass
			-30	-5.81	-0.0031		Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
LTE Band 4 / 20MHz / Full RB							
QPSK	20175 / 1732.5	VL	TN	-10.16	-0.0059	Note 1	Pass
		VN		-9.43	-0.0054		Pass
		VH		-12.35	-0.0071		Pass
		VN	50	-11.19	-0.0065		Pass
			40	-13.41	-0.0077		Pass
			30	-12.53	-0.0072		Pass
			20	-9.43	-0.0054		Pass
			10	-10.15	-0.0059		Pass
			0	-12.22	-0.0071		Pass
			-10	-8.13	-0.0047		Pass
			-20	-6.98	-0.0040		Pass
			-30	-9.35	-0.0054		Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
LTE Band 5 / 10MHz / Full RB							
QPSK	20525 / 836.5	VL	TN	-3.71	-0.0044	± 2.5	Pass
		VN		-2.83	-0.0034	± 2.5	Pass
		VH		-4.52	-0.0054	± 2.5	Pass
		VN	50	-4.19	-0.0050	± 2.5	Pass
			40	-5.16	-0.0062	± 2.5	Pass
			30	-6.75	-0.0081	± 2.5	Pass
			20	-2.83	-0.0034	± 2.5	Pass
			10	-5.35	-0.0064	± 2.5	Pass
			0	-2.99	-0.0036	± 2.5	Pass
			-10	-4.83	-0.0058	± 2.5	Pass
			-20	-3.25	-0.0039	± 2.5	Pass
			-30	-4.91	-0.0059	± 2.5	Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
LTE Band 7 / 20MHz / Full RB							
QPSK	21100 / 2535	VL	TN	-10.89	-0.0043	N/A	Pass
		VN		-11.52	-0.0045		Pass
		VH		-10.61	-0.0042		Pass
		VN	50	-10.38	-0.0041		Pass
			40	-12.15	-0.0048		Pass
			30	-10.93	-0.0043		Pass
			20	-11.52	-0.0045		Pass
			10	-13.26	-0.0052		Pass
			0	-12.59	-0.0050		Pass
			-10	-14.08	-0.0056		Pass
			-20	-13.66	-0.0054		Pass
			-30	-12.83	-0.0051		Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
LTE Band 12 / 10MHz / Full RB							
QPSK	23095 / 707.5	VL	TN	-4.52	-0.0064	Note 1	Pass
		VN		-3.65	-0.0052		Pass
		VH		-5.41	-0.0076		Pass
		VN	50	-4.13	-0.0058		Pass
			40	-5.49	-0.0078		Pass
			30	-4.91	-0.0069		Pass
			20	-3.65	-0.0052		Pass
			10	-3.97	-0.0056		Pass
			0	-4.58	-0.0065		Pass
			-10	-5.82	-0.0082		Pass
			-20	-6.38	-0.0090		Pass
			-30	-5.99	-0.0085		Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail	
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)		
LTE Band 13 / 20MHz / Full RB								
QPSK	23230 / 782	VL	TN	-21.35	-0.0273	Note 1	Pass	
		VN		-23.44	-0.0300		Pass	
		VH		-19.54	-0.0250		Pass	
		VN	50	50	-20.13		-0.0257	Pass
			40	40	-24.53		-0.0314	Pass
			30	30	-22.25		-0.0285	Pass
			20	20	-23.44		-0.0300	Pass
			10	10	-25.19		-0.0322	Pass
			0	0	-22.23		-0.0284	Pass
			-10	-10	-21.12		-0.0270	Pass
			-20	-20	-18.37		-0.0235	Pass
			-30	-30	-20.62		-0.0264	Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail	
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)		
LTE Band 17 / 10MHz / Full RB								
QPSK	23790 / 710	VL	TN	2.05	0.0029	Note 1	Pass	
		VN		2.29	0.0032		Pass	
		VH		3.41	0.0048		Pass	
		VN	50	50	4.58		0.0065	Pass
			40	40	3.82		0.0054	Pass
			30	30	3.59		0.0051	Pass
			20	20	2.29		0.0032	Pass
			10	10	3.22		0.0045	Pass
			0	0	4.19		0.0059	Pass
			-10	-10	3.97		0.0056	Pass
			-20	-20	2.94		0.0041	Pass
			-30	-30	2.38		0.0034	Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
LTE Band 66/ 20MHz / Full RB							
QPSK	132322 / 1745	VL	TN	6.41	0.0037	Note 1	Pass
		VN		5.61	0.0032		Pass
		VH		6.85	0.0039		Pass
		VN	50	5.72	0.0033		Pass
			40	6.47	0.0037		Pass
			30	4.54	0.0026		Pass
			20	5.61	0.0032		Pass
			10	6.89	0.0039		Pass
			0	5.35	0.0031		Pass
			-10	4.51	0.0026		Pass
			-20	5.47	0.0031		Pass
			-30	6.31	0.0036		Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
LTE Band 71 / 20MHz / Full RB							
QPSK	133322 / 683.0	VL	TN	-3.82	-0.0056	Note 1	Pass
		VN		-3.55	-0.0052		Pass
		VH		-2.97	-0.0044		Pass
		VN	50	-6.19	-0.0091		Pass
			40	-6.06	-0.0089		Pass
			30	-4.12	-0.0061		Pass
			20	-3.55	-0.0052		Pass
			10	-5.11	-0.0075		Pass
			0	-4.82	-0.0071		Pass
			-10	-5.28	-0.0078		Pass
			-20	-5.65	-0.0083		Pass
			-30	-6.18	-0.0091		Pass

Modulation	Channel/ Frequency	Voltage	Temperature	Deviation	Deviation	Limit	Pass/ Fail
	(MHz)	(Vdc)	(°C)	(Hz)	(ppm)	(ppm)	
LTE CA_7C / 20MHz+20MHz / Full RB							
QPSK	21001 / 2525.1	VL	TN	-10.35	-0.0040	Note 1	Pass
		VN		-14.25	-0.0055		Pass
		VH		-12.78	-0.0049		Pass
		VN	50	-13.58	-0.0053		Pass
			40	-12.95	-0.0050		Pass
			30	-13.43	-0.0052		Pass
			20	-11.52	-0.0045		Pass
			10	-13.26	-0.0051		Pass
			0	-11.59	-0.0045		Pass
			-10	-9.08	-0.0035		Pass
			-20	-10.15	-0.0039		Pass
			-30	-12.83	-0.0050		Pass

Note1: The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

APPENDIX A RF TEST DATA

A.1 LTE BAND 2

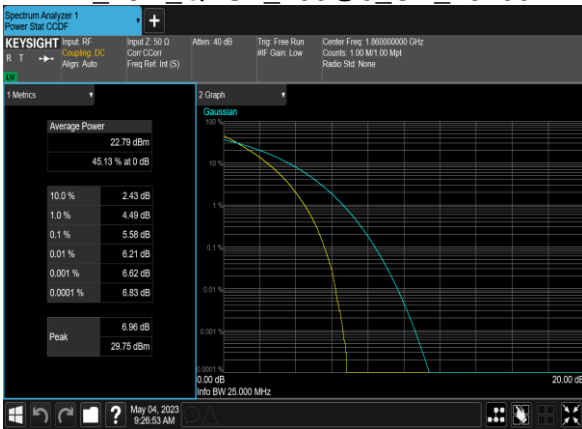
Peak to Average Ratio

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
2	20.0	18700	1860.0	QPSK	100@0	5.58	13	PASS
2	20.0	18700	1860.0	16QAM	100@0	6.42	13	PASS
2	20.0	18900	1880.0	QPSK	100@0	5.67	13	PASS
2	20.0	18900	1880.0	16QAM	100@0	6.51	13	PASS
2	20.0	19100	1900.0	QPSK	100@0	5.30	13	PASS
2	20.0	19100	1900.0	16QAM	100@0	6.12	13	PASS
2	15.0	18675	1857.5	QPSK	75@0	5.52	13	PASS
2	15.0	18675	1857.5	16QAM	75@0	6.31	13	PASS
2	15.0	18900	1880.0	QPSK	75@0	5.53	13	PASS
2	15.0	18900	1880.0	16QAM	75@0	6.32	13	PASS
2	15.0	19125	1902.5	QPSK	75@0	5.02	13	PASS
2	15.0	19125	1902.5	16QAM	75@0	5.90	13	PASS
2	10.0	18650	1865.0	QPSK	50@0	5.71	13	PASS
2	10.0	18650	1855.0	16QAM	50@0	6.55	13	PASS
2	10.0	18900	1880.0	QPSK	50@0	5.70	13	PASS
2	10.0	18900	1880.0	16QAM	50@0	6.48	13	PASS
2	10.0	19150	1905.0	QPSK	50@0	5.11	13	PASS
2	10.0	19150	1905.0	16QAM	50@0	5.93	13	PASS
2	5.0	18625	1852.5	QPSK	25@0	5.81	13	PASS
2	5.0	18625	1852.5	16QAM	25@0	6.49	13	PASS
2	5.0	18900	1880.0	QPSK	25@0	5.77	13	PASS
2	5.0	18900	1880.0	16QAM	25@0	6.50	13	PASS
2	5.0	19175	1907.5	QPSK	25@0	5.29	13	PASS
2	5.0	19175	1907.5	16QAM	25@0	6.04	13	PASS
2	3.0	18615	1851.5	QPSK	15@0	5.69	13	PASS
2	3.0	18615	1851.5	16QAM	15@0	6.55	13	PASS
2	3.0	18900	1880.0	QPSK	15@0	5.66	13	PASS
2	3.0	18900	1880.0	16QAM	15@0	6.50	13	PASS
2	3.0	19185	1908.5	QPSK	15@0	5.29	13	PASS
2	3.0	19185	1908.5	16QAM	15@0	6.19	13	PASS
2	1.4	18607	1850.7	QPSK	6@0	5.70	13	PASS
2	1.4	18607	1850.7	16QAM	6@0	6.55	13	PASS
2	1.4	18900	1880.0	QPSK	6@0	5.72	13	PASS
2	1.4	18900	1880.0	16QAM	6@0	6.51	13	PASS
2	1.4	19193	1909.3	QPSK	6@0	5.36	13	PASS
2	1.4	19193	1909.3	16QAM	6@0	6.21	13	PASS

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dB)	Limit (dB)	Verdict
2	20.0	18700	1860.0	64QAM	100@0	6.38	13	PASS
2	20.0	18900	1880.0	64QAM	100@0	6.46	13	PASS
2	20.0	19100	1900.0	64QAM	100@0	6.09	13	PASS
2	15.0	18675	1857.5	64QAM	75@0	6.33	13	PASS
2	15.0	18900	1880.0	64QAM	75@0	6.33	13	PASS
2	15.0	19125	1902.5	64QAM	75@0	5.91	13	PASS
2	10.0	18650	1855.0	64QAM	50@0	6.54	13	PASS
2	10.0	18900	1880.0	64QAM	50@0	6.49	13	PASS
2	10.0	19150	1905.0	64QAM	50@0	5.96	13	PASS
2	5.0	18625	1852.5	64QAM	25@0	6.53	13	PASS
2	5.0	18900	1880.0	64QAM	25@0	6.53	13	PASS
2	5.0	19175	1907.5	64QAM	25@0	6.04	13	PASS
2	3.0	18615	1851.5	64QAM	15@0	6.52	13	PASS
2	3.0	18900	1880.0	64QAM	15@0	6.56	13	PASS
2	3.0	19185	1908.5	64QAM	15@0	6.15	13	PASS
2	1.4	18607	1850.7	64QAM	6@0	6.55	13	PASS
2	1.4	18900	1880.0	64QAM	6@0	6.55	13	PASS
2	1.4	19193	1909.3	64QAM	6@0	6.19	13	PASS

Test Graphs

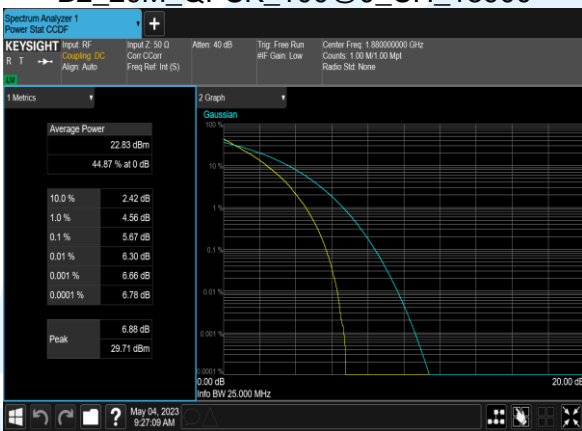
B2_20M_QPSK_100@0_CH_18700



B2_20M_16QAM_100@0_CH_18700



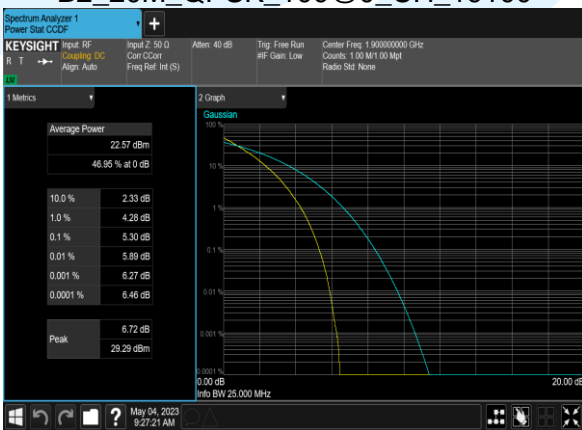
B2_20M_QPSK_100@0_CH_18900



B2_20M_16QAM_100@0_CH_18900



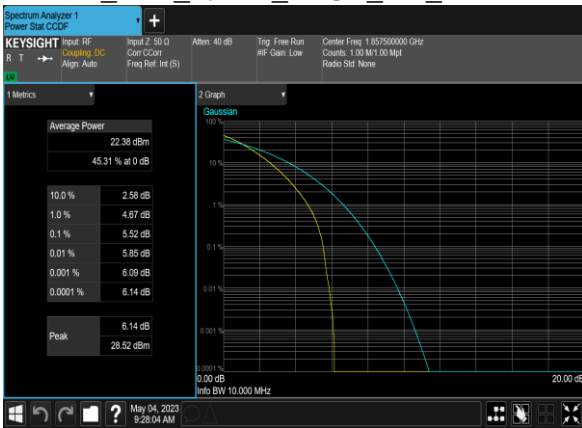
B2_20M_QPSK_100@0_CH_19100



B2_20M_16QAM_100@0_CH_19100



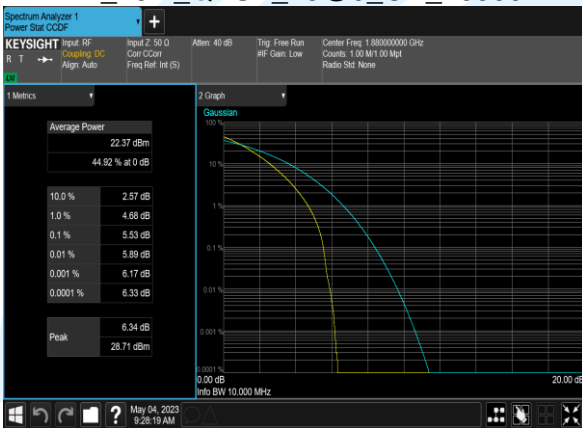
B2_15M_QPSK_75@0_CH_18675



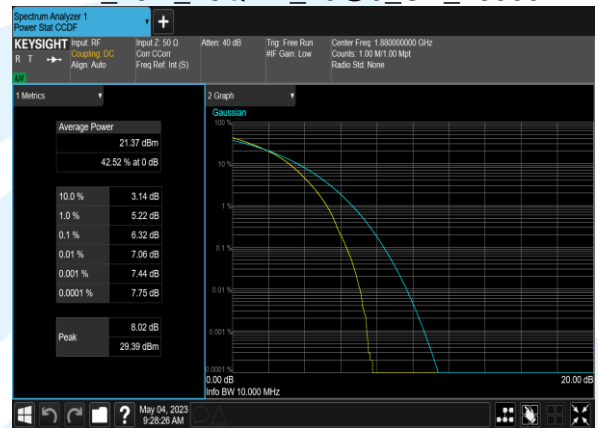
B2_15M_16QAM_75@0_CH_18675



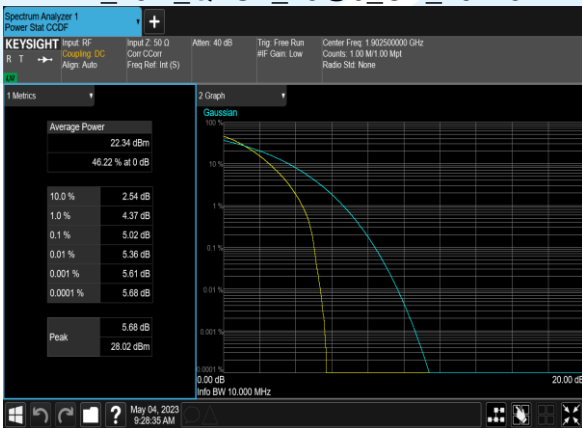
B2_15M_QPSK_75@0_CH_18900



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



B2_10M_16QAM_50@0_CH_18650



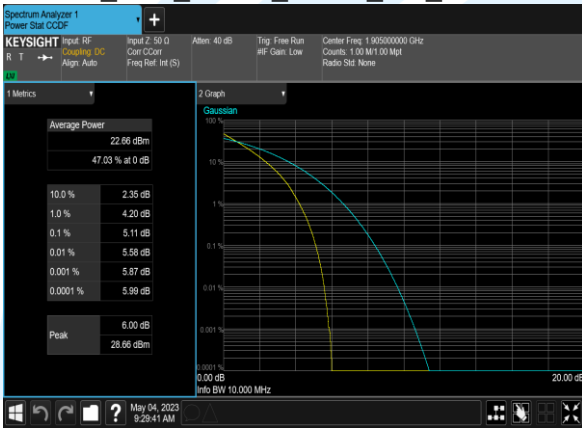
B2_10M_QPSK_50@0_CH_18900



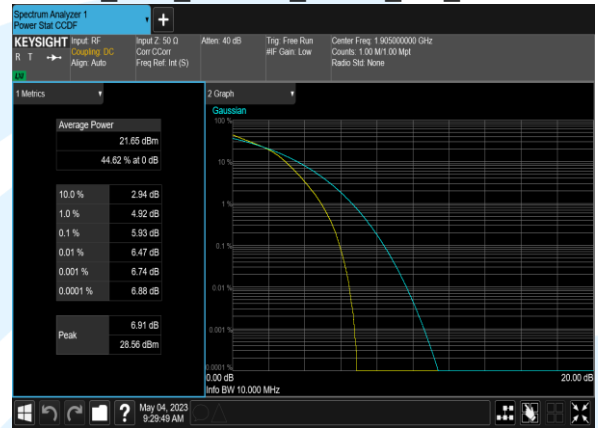
B2_10M_16QAM_50@0_CH_18900



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



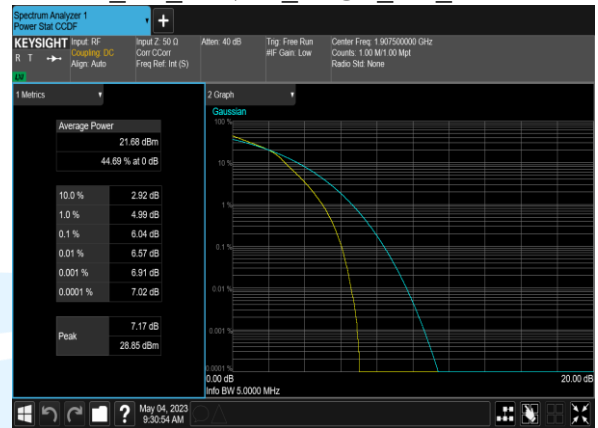
B2_5M_16QAM_25@0_CH_18900



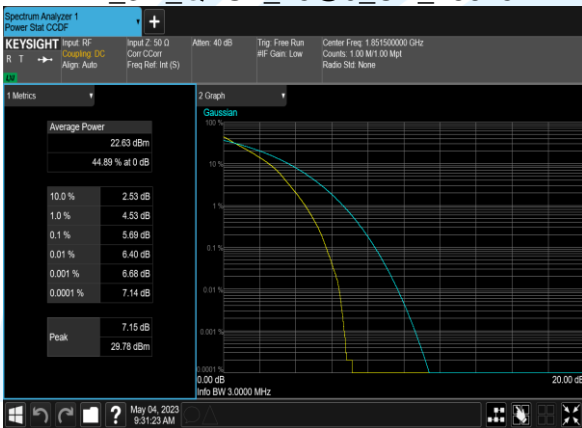
B2_5M_QPSK_25@0_CH_19175



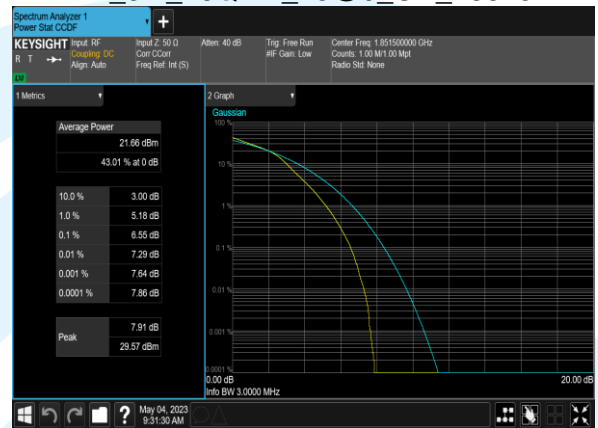
B2_5M_16QAM_25@0_CH_19175



B2_3M_QPSK_15@0_CH_18615



B2_3M_16QAM_15@0_CH_18615



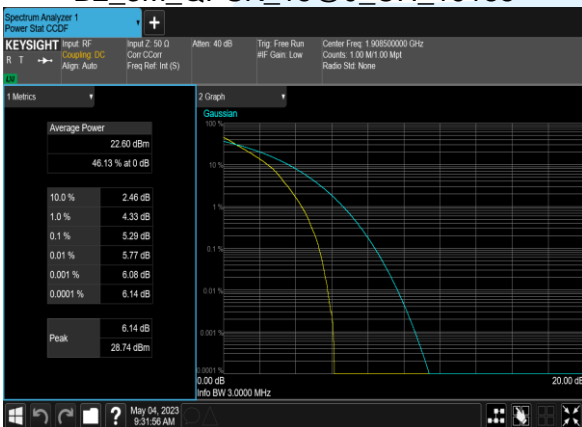
B2_3M_QPSK_15@0_CH_18900



B2_3M_16QAM_15@0_CH_18900



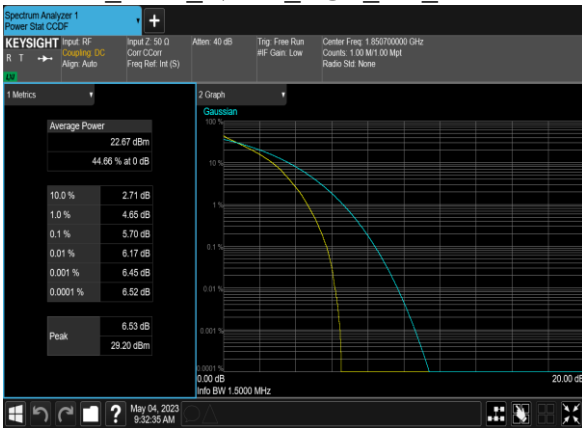
B2_3M_QPSK_15@0_CH_19185



B2_3M_16QAM_15@0_CH_19185



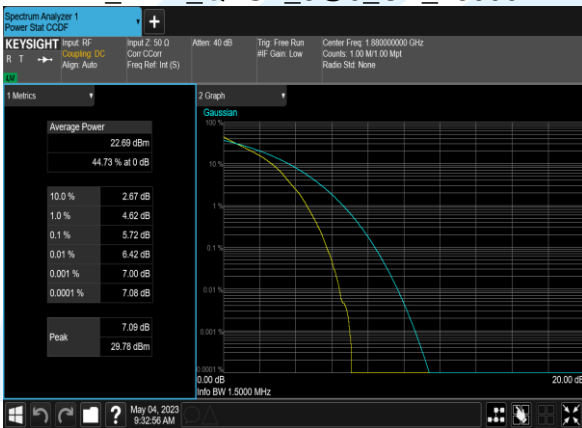
B2_1.4M_QPSK_6@0_CH_18607



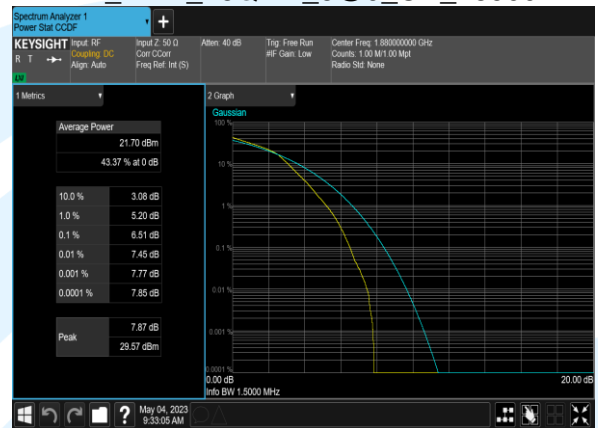
B2_1.4M_16QAM_6@0_CH_18607



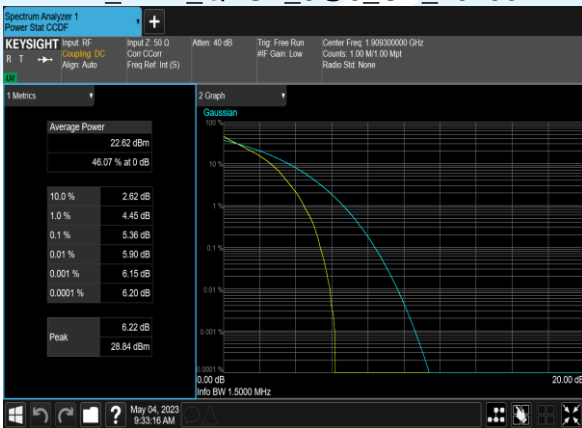
B2_1.4M_QPSK_6@0_CH_18900



B2_1.4M_16QAM_6@0_CH_18900



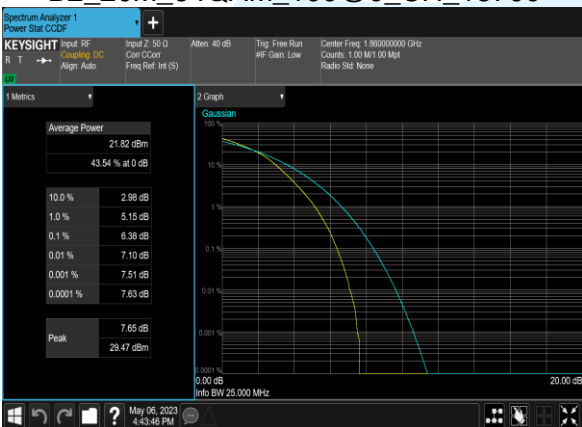
B2_1.4M_QPSK_6@0_CH_19193



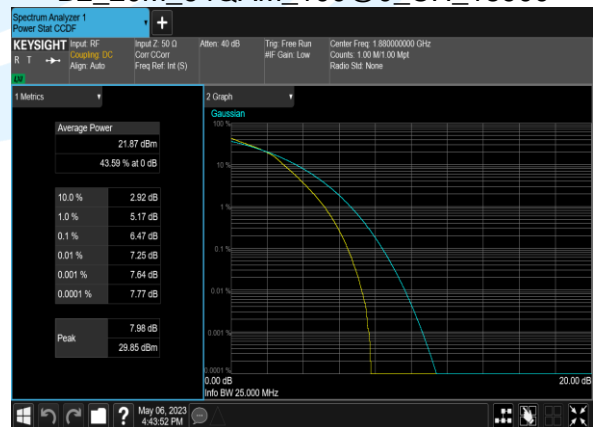
B2_1.4M_16QAM_6@0_CH_19193



B2_20M_64QAM_100@0_CH_18700



B2_20M_64QAM_100@0_CH_18900



B2_20M_64QAM_100@0_CH_19100



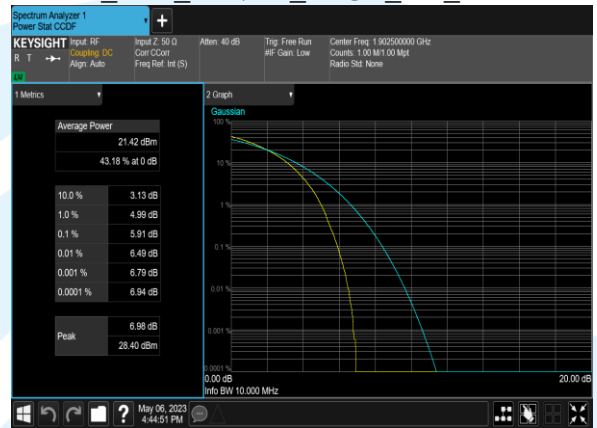
B2_15M_64QAM_75@0_CH_18675



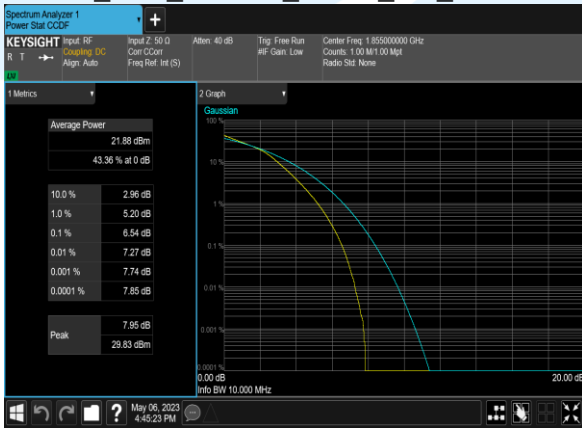
B2_15M_64QAM_75@0_CH_18900



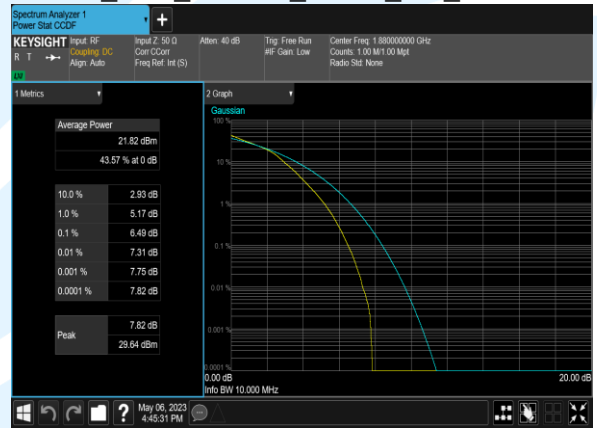
B2_15M_64QAM_75@0_CH_19125



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

