

FCC TEST REPORT

Product Name: Smart Phone
Trade Mark: BLU
Model No.: G72 MAX
Add. Model No.: N/A
Report Number: 2210112022RFM-2
Test Standards: FCC 47 CFR Part 22
FCC 47 CFR Part 24
FCC 47 CFR Part 27
FCC ID: YHLBLUG72MX
Test Result: PASS
Date of Issue: November 17, 2022

Prepared for:

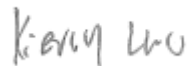
BLU Products, Inc.
10814 NW 33rd St # 100 Doral, FL 33172, USA

Prepared by:

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UTTR-RF-FCC4G-V1.1

Version

Version No.	Date	Description
V1.0	November 17, 2022	Original

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

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CONTENTS

1. GENERAL INFORMATION	5
1.1 CLIENT INFORMATION	5
1.2 EUT INFORMATION	5
1.2.1 GENERAL DESCRIPTION OF EUT	5
1.2.2 DESCRIPTION OF ACCESSORIES	6
1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	7
1.4 DESCRIPTION OF SUPPORT UNITS	11
1.5 TEST LOCATION	11
1.6 TEST FACILITY	11
1.7 DEVIATION FROM STANDARDS	11
1.8 ABNORMALITIES FROM STANDARD CONDITIONS	11
1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER	12
1.10 MEASUREMENT UNCERTAINTY	12
2. TEST SUMMARY	13
3. EQUIPMENT LIST	16
4. TEST CONFIGURATION	17
4.1 ENVIRONMENTAL CONDITIONS FOR TESTING	17
4.2 TEST SETUP	18
4.2.1 FOR RADIATED EMISSIONS TEST SETUP	18
4.2.2 FOR CONDUCTED RF TEST SETUP	19
4.3 TEST CHANNELS	20
4.4 SYSTEM TEST CONFIGURATION	22
4.5 PRE-SCAN	23
5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION	26
5.1 REFERENCE DOCUMENTS FOR TESTING	26
5.2 CONDUCTED OUTPUT POWER	26
5.2.1 LTE BAND 2	27
5.2.2 LTE BAND 4	28
5.2.3 LTE BAND 5	29
5.2.4 LTE BAND 7	30
5.2.6 LTE BAND 12	31
5.2.7 LTE BAND 17	32
5.2.8 LTE BAND 66	33
5.3 ERP OR EIRP	34
5.3.1 LTE BAND 2	35
5.3.2 LTE BAND 4	37
5.3.3 LTE BAND 5	39
5.3.1 LTE BAND 7	39
5.3.2 LTE BAND 12	40
5.3.3 LTE BAND 17	41
5.3.4 LTE BAND 66	41
5.4 PEAK-TO-AVERAGE RATIO	43
5.5 99%&26dB BANDWIDTH	44
5.6 BAND EDGE AT ANTENNA TERMINALS	45
5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS	46
5.8 FIELD STRENGTH OF SPURIOUS RADIATION	47
5.8.1 LTE BAND 2	48
5.8.2 LTE BAND 4	50
5.8.3 LTE BAND 5	52
5.8.1 LTE BAND 7	53
5.8.2 LTE BAND 12	55
5.8.3 LTE BAND 17	56
5.8.4 LTE BAND 66	57

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5.9 FREQUENCY STABILITY59

APPENDIX A RF TEST DATA.....63

A.1 LTE BAND 263

A.2 LTE BAND 491

A.3 LTE BAND 5119

A.4 LTE BAND 7140

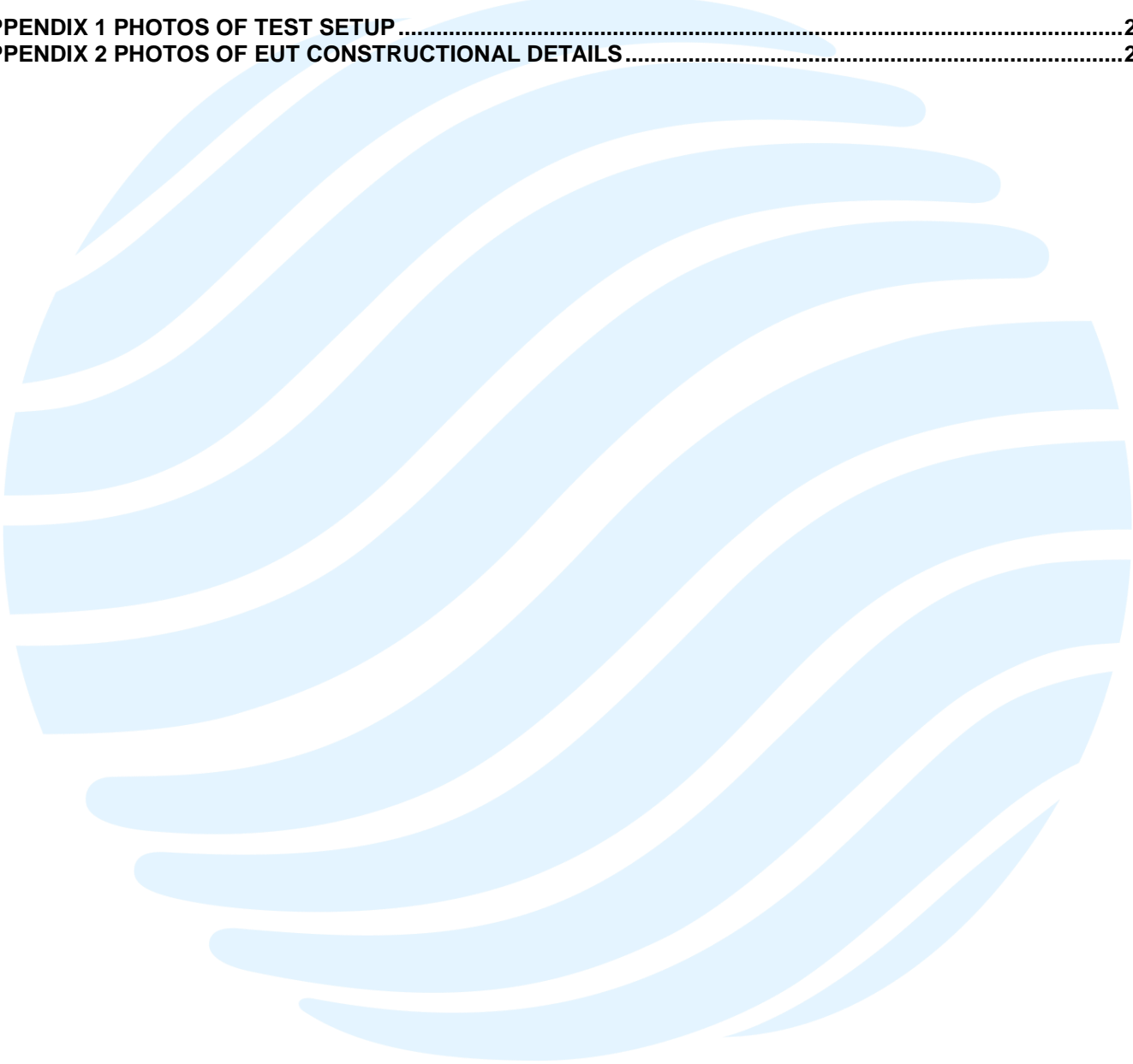
A.5 LTE BAND 12161

A.6 LTE BAND 17182

A.7 LTE BAND 66195

APPENDIX 1 PHOTOS OF TEST SETUP223

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS223



1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

Applicant:	BLU Products, Inc.
Address of Applicant:	10814 NW 33rd St # 100 Doral, FL 33172, USA
Manufacturer:	BLU Products, Inc.
Address of Manufacturer:	10814 NW 33rd St # 100 Doral, FL 33172, USA

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Smart Phone		
Model No.:	G72 MAX		
Add. Model No.:	N/A		
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:	LTE FDD Band 2/ Band 4/ Band 5/ Band 7/ Band 12/ Band 17/ Band 66	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth 5.0	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 250 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 Bands:	1559 MHz to 1610 MHz	GPS/ BDS/ Galileo/ GLONASS	
BSR:	VHF Band II	FM	
Software Version:	BLU_G0770WW_V12.0.G.01.00_GENERIC (Provided by the customer)		
Hardware Version:	2003SD-MB-P1 (Provided by the customer)		
Sample Received Date:	September 7, 2022		
Sample Tested Date:	October 12, 2022 to November 11, 2022		
Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.			

1.2.2 Description of Accessories

Adapter	
Model No.:	US-HY-2000
Input:	100-240 V~50/60 Hz 0.3 A
Output:	5.0 V $\overline{=}$ 2000 mA
AC Cable:	N/A
DC Cable:	N/A

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

Cable	
Description:	USB Type-C Plug Cable
Cable Type:	Shielded without ferrite
Length:	0.8 Meter

1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	Single Carrier: LTE Band 2/4/5/7/12/17/66		
Type of Modulation:	QPSK, 16QAM, 64QAM		
Antenna Type: (Provided by the customer)	FPCB Antenna		
Antenna Gain: (Provided by the customer)		Main Antenna	Diversity Antenna
	LTE Band 2:	-3.46 dBi	0.78 dBi
	LTE Band 4:	-3.74 dBi	0.61 dBi
	LTE Band 5:	-0.98 dBi	N/A
	LTE Band 7:	-1.63 dBi	0.67 dBi
	LTE Band 12:	-1.07 dBi	N/A
	LTE Band 17:	-1.07 dBi	N/A
	LTE Band 66:	-3.74 dBi	0.61 dBi
Sample No.:	Radiated: S20220907475-ZJA05/5		
	Conducted: S20220907475-ZJA02/4		
Normal Test Voltage:	3.87 Vdc		
Extreme Test Voltage:	3.4 to 4.45Vdc		
Extreme Test Temperature:	-30 °C to +50 °C		

Summary of Results:								
Bands	BW	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	22.59	23.37	0.2173	1.0791	1M08G7D
		16QAM		21.67	22.45	0.1758	1.0793	1M08W7D
		64QAM		21.04	21.82	0.1521	1.0804	1M08W7D
	3	QPSK	1851.5-1908.5	22.54	23.32	0.2148	2.6776	2M68G7D
		16QAM		21.81	22.59	0.1816	2.6785	2M68W7D
		64QAM		20.94	21.72	0.1486	2.6754	2M68W7D
	5	QPSK	1852.5-1907.5	22.54	23.32	0.2148	4.4648	4M46G7D
		16QAM		21.44	22.22	0.1667	4.4663	4M47W7D
		64QAM		20.78	21.56	0.1432	4.4672	4M47W7D
	10	QPSK	1855.0-1905.0	22.91	23.69	0.2339	8.9447	8M94G7D
		16QAM		22.21	22.99	0.1991	8.9605	9M96W7D
		64QAM		21.33	22.11	0.1626	8.9612	9M96W7D
	15	QPSK	1857.5-1902.5	22.74	23.52	0.2249	13.435	13M4G7D
		16QAM		22.09	22.87	0.1936	13.410	13M4W7D
		64QAM		21.22	22.00	0.1585	13.414	13M4W7D
	20	QPSK	1860.0-1900.0	22.96	23.74	0.2366	17.878	17M9G7D
		16QAM		22.14	22.92	0.1959	17.899	17M9W7D
		64QAM		21.23	22.01	0.1589	17.875	17M9W7D
4	1.4	QPSK	1710.7-1754.3	22.34	22.95	0.1972	1.0785	1M08G7D
		16QAM		21.40	22.01	0.1589	1.0796	1M08W7D
		64QAM		20.70	21.31	0.1352	1.0787	1M08W7D
	3	QPSK	1711.5-1753.5	22.26	22.87	0.1936	2.6787	2M68G7D
		16QAM		21.55	22.16	0.1644	2.6759	2M68W7D
		64QAM		20.87	21.48	0.1406	2.6757	2M68W7D
	5	QPSK	1712.5-1752.5	22.43	23.04	0.2014	4.4739	4M47G7D
		16QAM		21.50	22.11	0.1626	4.4652	4M47W7D
		64QAM		20.62	21.23	0.1327	4.4708	4M47W7D
	10	QPSK	1715-1750	22.60	23.21	0.2094	8.9469	8M95G7D
		16QAM		22.04	22.65	0.1841	8.9468	8M95W7D
		64QAM		21.04	21.65	0.1462	8.9496	8M95W7D
	15	QPSK	1717.5-1747.5	22.46	23.07	0.2028	13.420	13M4G7D
		16QAM		21.79	22.40	0.1738	13.410	13M4W7D
		64QAM		21.55	22.16	0.1644	14.33	14M3W7D
	20	QPSK	1720-1745	22.63	23.24	0.2109	17.882	17M9G7D
		16QAM		21.91	22.52	0.1786	17.912	17M9W7D
		64QAM		21.00	21.61	0.1449	17.868	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	22.43	19.30	0.0851	1.0788	1M08G7D
		16QAM		21.55	18.42	0.0695	1.0790	1M08W7D
		64QAM		21.10	17.97	0.0627	1.0788	1M08W7D
	3	QPSK	825.5-847.5	22.35	19.22	0.0836	2.6824	2M68G7D
		16QAM		21.73	18.60	0.0724	2.6747	2M67W7D
		64QAM		21.26	18.13	0.0650	2.6761	2M68W7D
	5	QPSK	826.5-846.5	22.36	19.23	0.0838	4.4704	4M47G7D
		16QAM		21.50	18.37	0.0687	4.4751	4M48W7D
		64QAM		21.04	17.91	0.0618	4.4708	4M47W7D
	10	QPSK	829-844	22.44	19.31	0.0853	8.9410	8M94G7D
		16QAM		22.03	18.90	0.0776	8.9465	8M95W7D
		64QAM		21.42	18.29	0.0675	8.9487	8M95W7D
7	5	QPSK	2502.5-2567.5	19.22	19.89	0.0975	4.4750	4M48G7D
		16QAM		18.29	18.96	0.0787	4.4646	4M46W7D
		64QAM		17.59	18.26	0.0670	4.4679	4M47W7D
	10	QPSK	2505-2565	19.37	20.04	0.1009	8.9464	8M95G7D
		16QAM		18.79	19.46	0.0883	8.9396	8M94W7D
		64QAM		17.93	18.60	0.0724	8.9448	8M94W7D
	15	QPSK	2507.5-2562.5	19.26	19.93	0.0984	13.419	13M4G7D
		16QAM		18.69	19.36	0.0863	13.403	13M4W7D
		64QAM		17.82	18.49	0.0706	13.405	13M4W7D
	20	QPSK	2510-2560	19.42	20.09	0.1021	17.893	17M9G7D
		16QAM		18.75	19.42	0.0875	17.870	17M9W7D
		64QAM		17.89	18.56	0.0718	17.874	17M9W7D
12	1.4	QPSK	699.7-715.3	22.91	19.69	0.0931	1.0785	1M08G7D
		16QAM		21.98	18.76	0.0752	1.0793	1M08W7D
		64QAM		21.09	17.87	0.0612	1.0797	1M08W7D
	3	QPSK	700.5-714.5	22.81	19.59	0.0910	2.6807	2M68G7D
		16QAM		22.31	19.09	0.0811	2.6776	2M68W7D
		64QAM		21.38	18.16	0.0655	2.6792	2M68W7D
	5	QPSK	701.5-713.5	22.83	19.61	0.0914	4.4807	4M48G7D
		16QAM		21.84	18.62	0.0728	4.4866	4M49W7D
		64QAM		20.93	17.71	0.0590	4.4821	4M48W7D
	10	QPSK	704-711	22.92	19.70	0.0933	9.0028	9M00G7D
		16QAM		22.32	19.10	0.0813	8.9897	8M99W7D
		64QAM		21.44	18.22	0.0664	8.9920	8M99W7D
17	5	QPSK	706.5-713.5	22.78	19.56	0.0904	4.4876	4M49G7D
		16QAM		21.85	18.63	0.0729	4.4768	4M48W7D
		64QAM		20.96	17.74	0.0594	4.4821	4M48W7D

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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	709-711	22.93	19.71	0.0935	8.9932	8M99G7D
		16QAM		22.33	19.11	0.0815	8.9959	9M00W7D
		64QAM		21.45	18.23	0.0665	8.9931	8M99W7D
66	1.4	QPSK	1710.7-1779.3	22.80	23.41	0.2193	1.0787	1M08G7D
		16QAM		21.85	22.46	0.1762	1.0789	1M08W7D
		64QAM		20.95	21.56	0.1432	1.0792	1M08W7D
	3	QPSK	1711.5-1778.5	22.65	23.26	0.2118	2.6778	2M68G7D
		16QAM		21.88	22.49	0.1774	2.6780	2M68W7D
		64QAM		20.96	21.57	0.1435	2.6783	2M68W7D
	5	QPSK	1712.5-1777.5	22.70	23.31	0.2143	4.4873	4M49G7D
		16QAM		21.78	22.39	0.1734	4.4741	4M47W7D
		64QAM		20.88	21.49	0.1409	4.4771	4M48W7D
	10	QPSK	1715-1775	22.81	23.42	0.2198	8.9512	9M95G7D
		16QAM		22.11	22.72	0.1871	8.9551	9M96W7D
		64QAM		21.16	21.77	0.1503	8.9561	9M96W7D
	15	QPSK	1717.5-1772.5	22.74	23.35	0.2163	13.435	13M4G7D
		16QAM		21.97	22.58	0.1811	13.417	13M4W7D
		64QAM		21.01	21.62	0.1452	13.421	13M4W7D
	20	QPSK	1720-1770	22.83	23.44	0.2208	17.89	17M9G7D
		16QAM		22.20	22.81	0.1910	17.895	17M9W7D
		64QAM		21.09	21.70	0.1479	17.878	17M9W7D

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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	0.3 Meter	UnionTrust

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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1.6 TEST FACILITY

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

CNAS-Lab Code: L9069

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

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

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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 %

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 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

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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

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 Chamber & Accessory Equipment	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	22-Jan-2021	21-Jan-2024
<input checked="" type="checkbox"/>	Receiver	R&S	ESIB26	100114	5-Nov-2021 03-Nov-2022	4-Nov-2022 02-Nov-2023
<input checked="" type="checkbox"/>	Broadband Antenna	ETS-LINDGREN	3142E	00201566	11-Nov-2021	10-Nov-2023
<input checked="" type="checkbox"/>	6dB Attenuator	Talent	RA6A5-N-18	18103001	11-Nov-2021 03-Nov-2022	10-Nov-2023 02-Nov-2023
<input checked="" type="checkbox"/>	Preamplifier	HP	8447F	2805A02960	5-Nov-2021 01-Nov-2022	4-Nov-2022 31-Oct-2023
<input checked="" type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	17-Apr-2022	16-Apr-2024
<input checked="" type="checkbox"/>	Pre-amplifier	ETS-LINDGREN	00118385	00201874	6-Nov-2021 01-Nov-2022	5-Nov-2022 31-Oct-2023
<input type="checkbox"/>	Horn Antenna	ETS-LINDGREN	3116C	00200180	17-Apr-2022	16-Apr-2024
<input checked="" type="checkbox"/>	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	14-Nov-2020	13-Nov-2022
<input checked="" type="checkbox"/>	Pre-amplifier	ETS-LINDGREN	00118384	00202652	17-Nov-2020	16-Nov-2022
<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	20-Aug-2022	19-Aug-2023
<input checked="" type="checkbox"/>	Temp & Humidity chamber	Votisch	VT4002	58566133290020	15-Apr-2022	14-Apr-2023
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	119583	15-Apr-2022	14-Apr-2023
<input checked="" type="checkbox"/>	Wideband Radio Communication Tester	R&S	CMW500	120932	15-Apr-2022	14-Apr-2023

4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

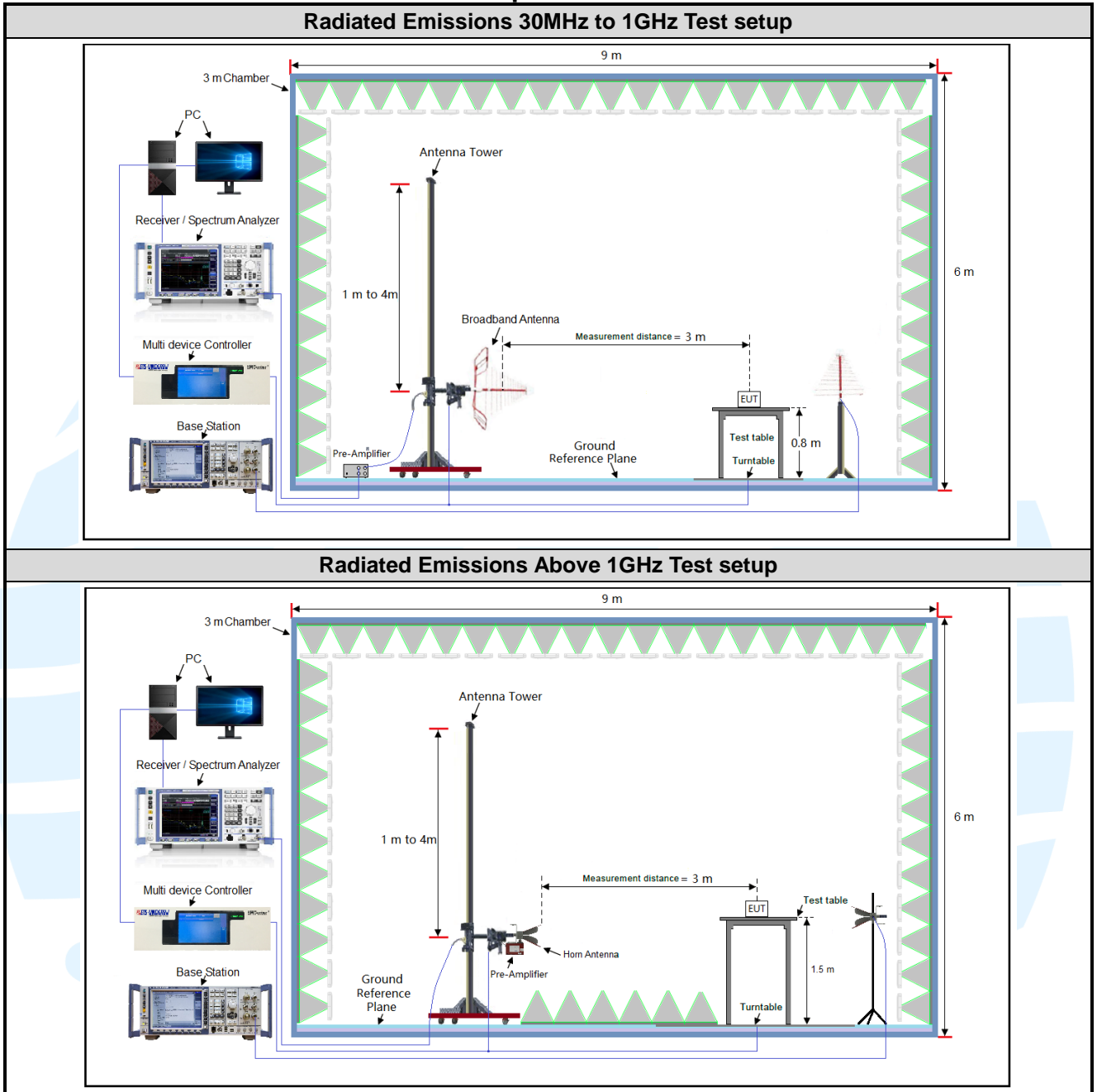
Test Environment	Selected Values During Tests		
Test Condition	Ambient		
	Temperature (°C)	Voltage (V)	Relative Humidity (%)
TN/VN	+15 to +35	3.87	20 to 75
TL/VL	-30	3.4	20 to 75
TH/VL	+50	3.4	20 to 75
TL/VH	-30	4.45	20 to 75
TH/VH	+50	4.45	20 to 75

Remark:

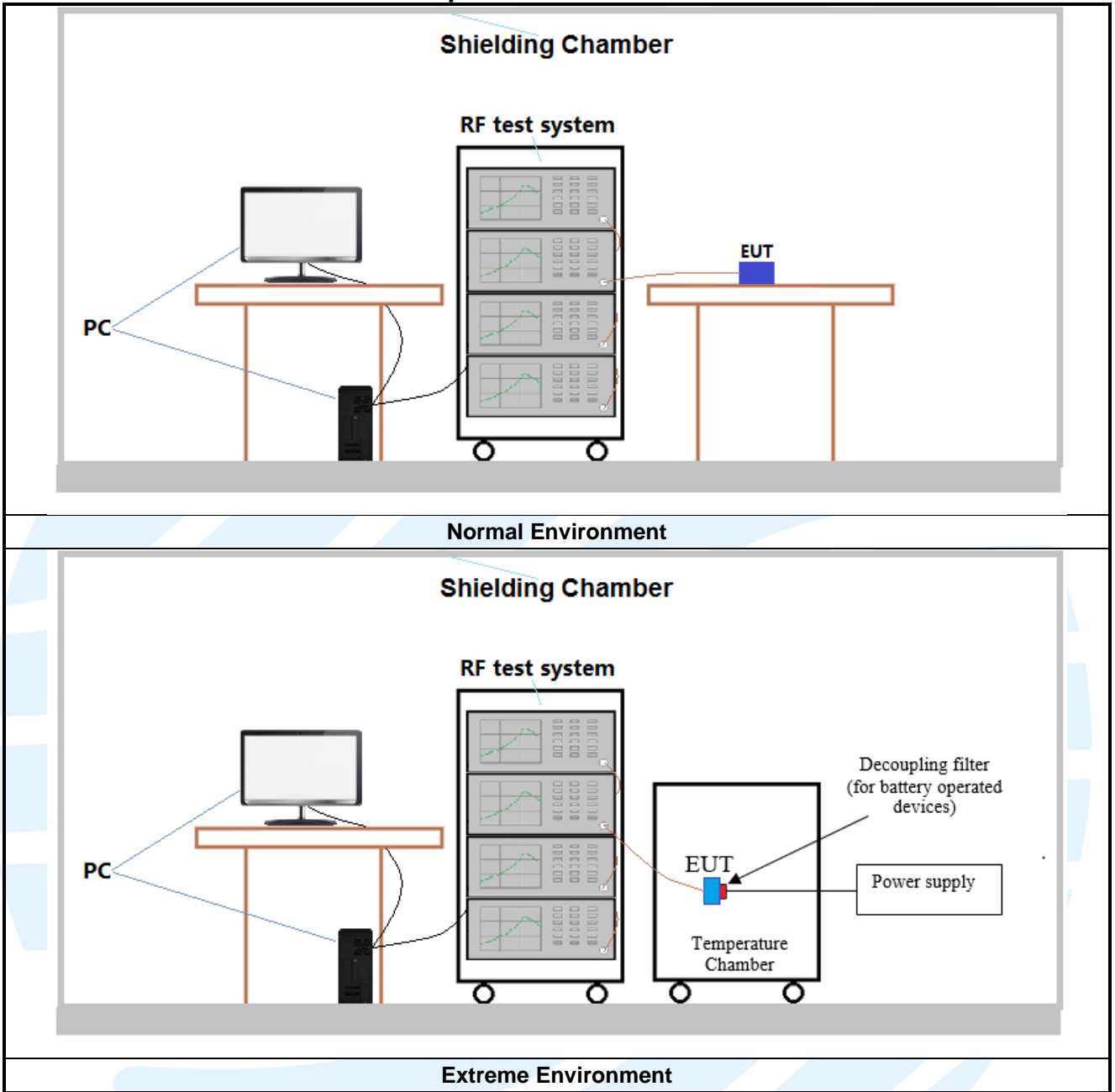
- 1) The EUT just work in such extreme temperature of -30 °C to +50 °C and the extreme voltage of 3.4 V to 4.45 V, so here the EUT is tested in the temperature of -30 °C to +50 °C and the voltage of 3.4 V to 4.45 V.
- 2) VN: Normal Voltage; TN: Normal Temperature;
 TL: Low Extreme Test Temperature; TH: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

4.2 TEST SETUP

4.2.1 For Radiated Emissions test setup



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 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

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UTTR-RF-FCC4G-V1.1

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 rechargeable Li-on battery. Only the worst case data were recorded in this test report.

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

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

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

4.5 PRE-SCAN

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

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

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

Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H	
Frequency stability	2	<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 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 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 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 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	17	-	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	-	-	<input checked="" type="checkbox"/>	<input 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 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

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

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

5.2 CONDUCTED OUTPUT POWER

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

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

Limit:

FCC 47 CFR Part 22.913(a):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):

Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

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

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC 47 CFR Part 27.50(h)(2):

Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Test Procedure:

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

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

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

5.2.1 LTE Band 2

		Conducted Power(dBm)									
Modulation		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	22.43	22.23	22.04	21.22	20.98	20.96	20.61	20.39	20.43
		1@3	22.59	22.37	22.24	21.54	21.20	21.16	20.80	20.51	20.60
		1@5	22.41	22.21	22.03	21.23	20.98	21.06	20.64	20.31	20.39
		3@0	22.49	22.34	22.10	21.50	21.45	21.01	20.91	20.82	20.38
		3@1	22.52	22.37	22.18	21.67	21.39	21.33	21.04	20.79	20.70
		3@3	22.56	22.33	22.14	21.46	21.44	21.07	20.81	20.78	20.30
		6@0	21.47	21.27	21.06	20.41	20.26	20.12	19.79	19.62	19.48
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	22.50	22.30	22.08	21.31	21.81	21.05	20.86	20.52	20.91
		1@8	22.49	22.30	22.11	21.34	21.77	21.11	20.86	20.49	20.94
		1@14	22.54	22.23	22.10	21.37	21.78	21.12	20.86	20.55	20.94
		8@0	21.52	21.32	21.15	20.54	20.48	20.07	19.86	19.74	19.67
		8@4	21.49	21.29	21.16	20.56	20.49	20.19	19.99	19.81	19.65
		8@7	21.46	21.26	21.12	20.47	20.43	20.03	19.81	19.70	19.65
		15@0	21.51	21.28	21.10	20.49	20.37	19.98	19.78	19.74	19.53
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	22.40	22.19	22.02	21.30	21.05	21.12	20.66	20.38	20.54
		1@12	22.54	22.31	22.20	21.44	21.13	21.29	20.78	20.49	20.70
		1@24	22.39	22.14	22.01	21.30	20.96	21.15	20.64	20.34	20.57
		12@0	21.49	21.27	21.14	20.33	20.30	20.14	19.77	19.68	19.51
		12@7	21.54	21.32	21.19	20.56	20.44	20.29	19.96	19.75	19.68
		12@13	21.49	21.27	20.99	20.43	20.25	20.00	19.77	19.60	19.43
		25@0	21.48	21.31	21.09	20.44	20.36	20.13	19.83	19.71	19.54
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	22.76	22.65	22.41	21.58	22.11	21.38	20.71	21.26	20.53
		1@25	22.91	22.71	22.52	21.72	22.21	21.54	20.90	21.33	20.65
		1@49	22.75	22.51	22.34	21.58	22.07	21.37	20.63	21.15	20.43
		25@0	21.81	21.71	21.45	20.85	20.74	20.46	19.94	19.84	19.58
		25@12	21.81	21.63	21.43	20.92	20.66	20.46	20.01	19.76	19.57
		25@25	21.85	21.52	21.32	20.92	20.62	20.30	20.01	19.69	19.40
		50@0	21.80	21.64	21.35	20.83	20.65	20.38	19.98	19.75	19.46
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	22.69	22.61	22.36	21.92	22.09	21.40	21.05	21.22	20.48
		1@37	22.74	22.56	22.38	21.93	22.07	21.44	21.02	21.22	20.44
		1@74	22.55	22.37	22.27	21.80	21.93	21.25	20.91	21.05	20.34
		36@0	21.73	21.70	21.39	20.64	20.67	20.38	19.74	19.80	19.45
		36@20	21.78	21.59	21.50	20.72	20.60	20.50	19.82	19.68	19.57
		36@39	21.84	21.47	21.36	20.77	20.49	20.32	19.86	19.57	19.36
		75@0	21.75	21.60	21.32	20.71	20.60	20.35	19.88	19.68	19.43
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	22.72	22.54	22.45	21.77	22.01	21.61	20.89	21.04	20.65
		1@49	22.96	22.78	22.79	22.04	22.14	21.63	21.04	21.23	20.77
		1@99	22.58	22.30	22.27	21.59	21.73	21.43	20.67	20.82	20.44
		50@0	21.65	21.74	21.26	20.64	20.79	20.27	19.76	19.90	19.35
		50@24	21.76	21.62	21.38	20.74	20.61	20.42	19.87	19.69	19.52
		50@50	21.82	21.40	21.14	20.76	20.43	20.21	19.86	19.53	19.34
		100@0	21.74	21.64	21.29	20.71	20.61	20.27	19.76	19.72	19.37

5.2.2 LTE Band 4

		Conducted Power(dBm)									
Modulation		QPSK			16QAM			64QAM			
Band	Bandwidth (MHz)	RB	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	22.16	22.06	22.16	20.94	20.77	21.11	20.26	20.08	20.42
		1@3	22.34	22.19	22.31	21.17	20.93	21.31	20.48	20.28	20.67
		1@5	22.14	22.07	22.14	20.96	20.77	21.14	20.30	20.10	20.46
		3@0	22.21	22.11	22.22	21.14	21.14	21.09	20.53	20.48	20.40
		3@1	22.19	22.11	22.27	21.34	21.13	21.40	20.64	20.40	20.70
		3@3	22.12	22.07	22.18	21.12	21.19	21.07	20.42	20.48	20.41
		6@0	21.20	21.08	21.22	20.13	20.00	20.23	19.44	19.35	19.50
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	22.23	22.10	22.21	20.99	21.55	21.09	20.34	20.87	20.43
		1@8	22.18	22.10	22.26	20.99	21.55	21.17	20.32	20.86	20.49
		1@14	22.15	22.07	22.16	20.98	21.50	21.20	20.30	20.87	20.49
		8@0	21.23	21.07	21.24	20.16	20.16	20.14	19.56	19.51	19.44
		8@4	21.23	21.11	21.25	20.21	20.21	20.31	19.56	19.49	19.63
		8@7	21.14	21.08	21.19	20.17	20.17	20.10	19.53	19.52	19.45
		15@0	21.17	21.02	21.14	20.17	20.07	20.12	19.47	19.38	19.40
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	22.36	22.18	22.24	21.46	21.01	21.02	20.54	20.13	20.11
		1@12	22.43	22.31	22.42	21.50	21.19	21.16	20.62	20.24	20.29
		1@24	22.29	22.19	22.28	21.39	21.03	21.08	20.48	20.14	20.19
		12@0	21.31	21.22	21.29	20.27	20.15	20.19	19.36	19.20	19.37
		12@7	21.42	21.31	21.35	20.49	20.26	20.42	19.61	19.40	19.53
		12@13	21.39	21.21	21.32	20.29	20.11	20.28	19.34	19.25	19.33
		25@0	21.33	21.22	21.28	20.27	20.22	20.32	19.38	19.27	19.41
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	22.47	22.34	22.39	21.38	21.10	21.80	20.34	20.92	20.46
		1@25	22.57	22.52	22.60	21.58	21.29	22.04	20.45	21.04	20.53
		1@49	22.35	22.30	22.39	21.32	21.04	21.87	20.27	20.86	20.48
		25@0	21.41	21.30	21.41	20.43	20.39	20.37	19.58	19.41	19.48
		25@12	21.41	21.35	21.41	20.40	20.39	20.42	19.60	19.42	19.51
		25@25	21.38	21.34	21.42	20.37	20.36	20.45	19.51	19.45	19.52
		50@0	21.37	21.31	21.38	20.34	20.31	20.39	19.49	19.41	19.50
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	22.42	22.28	22.36	20.63	21.78	21.25	21.55	20.89	20.41
		1@37	22.40	22.37	22.46	20.72	21.79	21.37	21.55	20.89	20.50
		1@74	22.21	22.20	22.27	20.47	21.64	21.28	21.39	20.77	20.38
		36@0	21.44	21.40	21.43	19.47	20.33	20.34	20.39	19.44	19.51
		36@20	21.52	21.43	21.49	19.52	20.31	20.44	20.43	19.43	19.55
		36@39	21.41	21.34	21.49	19.42	20.31	20.42	20.36	19.41	19.49
		75@0	21.42	21.36	21.42	19.45	20.31	20.42	20.35	19.43	19.53
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	22.38	22.25	22.30	21.37	21.61	21.40	20.52	20.74	20.51
		1@49	22.63	22.46	22.53	21.67	21.91	21.69	20.71	21.00	20.79
		1@99	22.18	22.11	22.32	21.18	21.54	21.40	20.36	20.62	20.53
		50@0	21.32	21.33	21.37	20.29	20.37	20.30	19.44	19.43	19.41
		50@24	21.39	21.28	21.34	20.36	20.29	20.41	19.52	19.40	19.47
		50@50	21.25	21.24	21.34	20.22	20.21	20.34	19.31	19.31	19.42
		100@0	21.31	21.31	21.33	20.31	20.32	20.31	19.44	19.39	19.42

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
5	1.4	1@0	22.17	22.16	22.33	21.00	20.95	21.31	20.60	20.49	20.89
		1@3	22.34	22.31	22.43	21.20	21.13	21.53	20.74	20.73	21.10
		1@5	22.08	22.13	22.37	20.99	20.92	21.33	20.58	20.45	20.87
		3@0	22.25	22.29	22.31	21.26	21.31	21.23	20.86	20.88	20.78
		3@1	22.25	22.22	22.42	21.40	21.34	21.55	20.98	20.85	21.10
		3@3	22.21	22.21	22.28	21.23	21.31	21.27	20.79	20.93	20.85
		6@0	21.28	21.27	21.43	20.12	20.20	20.41	19.73	19.74	19.95
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	22.23	22.14	22.27	21.09	21.70	21.36	20.65	21.23	20.93
		1@8	22.12	22.17	22.35	21.03	21.73	21.32	20.58	21.26	20.96
		1@14	22.20	22.17	22.35	21.03	21.70	21.37	20.62	21.25	20.91
		8@0	21.25	21.18	21.35	20.25	20.27	20.28	19.77	19.82	19.81
		8@4	21.21	21.24	21.42	20.25	20.37	20.44	19.82	19.93	19.99
		8@7	21.19	21.18	21.37	20.21	20.35	20.26	19.74	19.88	19.78
		15@0	21.17	21.17	21.34	20.21	20.22	20.24	19.77	19.76	19.79
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	22.10	22.08	22.23	21.05	20.89	21.43	20.57	20.44	20.91
		1@12	22.24	22.25	22.36	21.18	21.11	21.50	20.67	20.57	21.04
		1@24	22.14	22.10	22.30	21.02	20.91	21.42	20.57	20.44	20.98
		12@0	21.23	21.15	21.37	20.18	20.08	20.32	19.65	19.64	19.88
		12@7	21.17	21.32	21.35	20.19	20.35	20.47	19.80	19.87	20.01
		12@13	21.17	21.22	21.26	20.11	20.14	20.29	19.61	19.68	19.84
		25@0	21.20	21.15	21.29	20.20	20.15	20.25	19.75	19.72	19.84
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	22.28	22.23	22.20	21.75	21.25	21.08	20.78	20.63	21.29
		1@25	22.39	22.37	22.44	22.03	21.39	21.34	20.89	20.71	21.42
		1@49	22.19	22.15	22.34	21.72	21.23	21.17	20.74	20.55	21.37
		25@0	21.34	21.16	21.42	20.37	20.15	20.40	19.81	19.76	19.93
		25@12	21.28	21.25	21.34	20.31	20.29	20.40	19.82	19.87	19.86
		25@25	21.27	21.27	21.25	20.32	20.21	20.31	19.78	19.84	19.84
		50@0	21.30	21.20	21.29	20.31	20.21	20.30	19.79	19.76	19.87

5.2.4 LTE Band 7

Conducted Power(dBm)											
Band	Modulation		QPSK			16QAM			64QAM		
	Bandwidth (MHz)	RB	20775	21100	21425	20775	21100	21425	20775	21100	21425
7	5	1@0	19.20	19.05	19.10	17.84	18.17	17.97	17.17	17.04	17.45
		1@12	19.22	19.08	19.19	17.97	18.29	18.10	17.29	17.13	17.59
		1@24	19.11	18.99	19.17	17.84	18.11	18.05	17.17	16.97	17.43
		12@0	18.13	17.99	18.19	17.07	17.02	17.14	16.21	16.20	16.35
		12@7	18.21	18.10	18.29	17.28	17.29	17.37	16.44	16.37	16.57
		12@13	18.19	18.05	18.15	17.16	17.02	17.17	16.26	16.23	16.39
		25@0	18.08	18.04	18.18	17.20	17.10	17.25	16.33	16.32	16.34
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	19.19	19.06	19.14	17.97	18.64	18.22	17.19	17.86	17.38
		1@25	19.36	19.30	19.37	18.14	18.79	18.37	17.32	17.93	17.54
		1@49	19.14	19.04	19.22	17.98	18.62	18.20	17.16	17.78	17.41
		25@0	18.13	18.07	18.26	17.25	17.18	17.32	16.38	16.30	16.58
		25@12	18.22	18.13	18.24	17.35	17.23	17.33	16.48	16.37	16.46
		25@25	18.21	18.12	18.21	17.35	17.26	17.29	16.47	16.38	16.34
		50@0	18.18	18.14	18.29	17.26	17.19	17.27	16.32	16.32	16.37
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	19.15	19.14	19.06	18.64	18.09	18.24	17.40	17.82	17.46
		1@37	19.14	19.12	19.26	18.69	18.15	18.44	17.60	17.82	17.63
		1@74	18.98	18.98	19.11	18.53	17.97	18.32	17.36	17.69	17.47
		36@0	18.12	18.14	18.25	17.16	17.15	17.23	16.29	16.33	16.48
		36@20	18.20	18.17	18.28	17.19	17.24	17.29	16.40	16.49	16.45
		36@39	18.16	18.11	18.25	17.18	17.12	17.23	16.40	16.36	16.40
		75@0	18.10	18.13	18.25	17.20	17.18	17.23	16.36	16.37	16.45
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	19.13	19.00	18.96	18.23	18.15	18.51	17.70	17.64	17.66
		1@49	19.35	19.22	19.42	18.49	18.27	18.75	17.89	17.89	17.67
		1@99	19.02	18.96	19.10	18.19	18.08	18.59	17.60	17.21	17.32
		50@0	18.10	18.06	18.24	17.09	17.10	17.33	16.25	16.28	16.46
		50@24	18.19	18.09	18.27	17.29	17.15	17.26	16.34	16.33	16.41
		50@50	18.09	18.06	18.16	17.11	17.16	17.17	16.25	16.25	16.24
		100@0	18.09	18.07	18.23	17.15	17.17	17.26	16.26	16.28	16.36

5.2.6 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	22.75	22.66	22.65	21.54	21.41	21.57	20.67	20.54	20.66
		1@3	22.90	22.91	22.81	21.70	21.59	21.77	20.90	20.68	20.87
		1@5	22.67	22.66	22.59	21.52	21.43	21.62	20.62	20.60	20.65
		3@0	22.82	22.71	22.66	21.75	21.87	21.55	20.93	20.98	20.69
		3@1	22.83	22.80	22.74	21.98	21.78	21.84	21.09	20.85	20.99
		3@3	22.69	22.72	22.63	21.77	21.83	21.54	20.90	20.94	20.68
		6@0	21.80	21.73	21.68	20.74	20.73	20.66	19.84	19.84	19.81
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	22.81	22.77	22.69	21.62	22.31	21.69	20.72	21.38	20.78
		1@8	22.76	22.72	22.69	21.56	22.22	21.66	20.69	21.36	20.77
		1@14	22.74	22.68	22.67	21.61	22.16	21.62	20.70	21.28	20.77
		8@0	21.77	21.74	21.68	20.84	20.88	20.71	19.99	20.01	19.79
		8@4	21.82	21.74	21.72	20.85	20.97	20.81	20.01	20.02	19.93
		8@7	21.71	21.72	21.65	20.81	20.92	20.66	19.90	19.98	19.75
		15@0	21.68	21.73	21.67	20.83	20.76	20.67	19.92	19.92	19.77
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	22.66	22.69	22.61	21.56	21.40	21.74	20.69	20.55	20.85
		1@12	22.78	22.83	22.76	21.63	21.56	21.84	20.76	20.64	20.93
		1@24	22.67	22.68	22.57	21.52	21.37	21.65	20.67	20.49	20.82
		12@0	21.73	21.73	21.70	20.70	20.68	20.74	19.81	19.80	19.85
		12@7	21.81	21.76	21.75	20.87	20.86	20.90	20.01	19.99	19.98
		12@13	21.73	21.72	21.64	20.74	20.70	20.64	19.79	19.84	19.75
		25@0	21.73	21.69	21.70	20.75	20.76	20.73	19.87	19.86	19.79
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	22.74	22.76	22.73	21.56	22.22	21.73	20.85	20.68	21.30
		1@25	22.88	22.92	22.83	21.70	22.32	21.83	20.99	20.80	21.44
		1@49	22.65	22.65	22.62	21.46	22.16	21.57	20.78	20.55	21.23
		25@0	21.79	21.73	21.70	20.88	20.79	20.74	19.95	19.94	19.92
		25@12	21.78	21.77	21.70	20.89	20.82	20.80	19.93	19.97	19.88
		25@25	21.76	21.76	21.68	20.91	20.81	20.72	19.91	20.00	19.80
		50@0	21.81	21.75	21.70	20.90	20.80	20.71	19.93	19.90	19.84

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	22.70	22.70	22.71	21.57	21.43	21.72	20.69	20.56	20.87
		1@12	22.78	22.77	22.74	21.64	21.49	21.85	20.71	20.59	20.96
		1@24	22.65	22.59	22.62	21.52	21.37	21.71	20.64	20.45	20.85
		12@0	21.73	21.65	21.71	20.68	20.59	20.68	19.75	19.69	19.83
		12@7	21.77	21.78	21.75	20.85	20.86	20.91	19.95	19.92	19.97
		12@13	21.77	21.74	21.66	20.68	20.68	20.71	19.85	19.80	19.80
		25@0	21.73	21.67	21.70	20.75	20.72	20.71	19.88	19.86	19.80
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	22.77	22.72	22.73	21.57	22.21	21.71	20.82	20.68	21.34
		1@25	22.93	22.89	22.87	21.70	22.33	21.91	20.96	20.70	21.45
		1@49	22.65	22.67	22.71	21.46	22.13	21.62	20.71	20.61	21.21
		25@0	21.71	21.66	21.73	20.81	20.77	20.76	19.82	19.91	19.90
		25@12	21.80	21.74	21.81	20.90	20.84	20.85	19.93	19.98	19.93
		25@25	21.78	21.67	21.68	20.85	20.71	20.70	19.88	19.88	19.84
		50@0	21.69	21.65	21.73	20.78	20.72	20.69	19.84	19.85	19.86

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	22.45	22.46	22.60	21.25	21.13	21.54	20.34	20.23	20.63
		1@3	22.62	22.60	22.80	21.42	21.27	21.80	20.52	20.33	20.88
		1@5	22.39	22.40	22.65	21.24	21.12	21.63	20.28	20.23	20.65
		3@0	22.47	22.45	22.73	21.49	21.50	21.57	20.57	20.59	20.58
		3@1	22.52	22.50	22.76	21.60	21.48	21.85	20.70	20.59	20.95
		3@3	22.46	22.49	22.72	21.49	21.61	21.59	20.54	20.59	20.70
		6@0	21.54	21.43	21.69	20.42	20.43	20.65	19.51	19.48	19.76
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	22.51	22.45	22.65	21.24	21.88	21.63	20.37	20.96	20.72
		1@8	22.43	22.40	22.65	21.26	21.86	21.58	20.34	20.92	20.71
		1@14	22.46	22.37	22.65	21.26	21.86	21.56	20.32	20.95	20.72
		8@0	21.46	21.40	21.67	20.41	20.47	20.58	19.52	19.56	19.67
		8@4	21.46	21.41	21.66	20.50	20.52	20.72	19.55	19.58	19.83
		8@7	21.41	21.36	21.61	20.42	20.50	20.56	19.50	19.59	19.65
		15@0	21.41	21.35	21.61	20.39	20.33	20.55	19.45	19.45	19.64
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	22.41	22.37	22.58	21.23	21.11	21.73	20.38	20.21	20.75
		1@12	22.47	22.43	22.70	21.38	21.13	21.78	20.41	20.31	20.88
		1@24	22.38	22.33	22.62	21.24	21.09	21.72	20.33	20.14	20.79
		12@0	21.42	21.33	21.66	20.27	20.26	20.60	19.40	19.41	19.70
		12@7	21.44	21.41	21.66	20.42	20.45	20.81	19.57	19.57	19.88
		12@13	21.36	21.40	21.60	20.32	20.26	20.63	19.42	19.40	19.69
		25@0	21.37	21.38	21.62	20.36	20.35	20.63	19.46	19.42	19.68
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	22.54	22.47	22.67	21.30	21.86	21.62	20.37	20.96	20.70
		1@25	22.68	22.59	22.81	21.38	22.11	21.76	20.50	21.16	20.89
		1@49	22.45	22.41	22.70	21.18	21.88	21.64	20.27	20.99	20.69
		25@0	21.43	21.41	21.77	20.47	20.45	20.80	19.59	19.48	19.84
		25@12	21.50	21.51	21.67	20.60	20.44	20.70	19.64	19.58	19.82
		25@25	21.51	21.48	21.63	20.53	20.44	20.69	19.55	19.54	19.76
		50@0	21.44	21.47	21.66	20.44	20.43	20.73	19.49	19.50	19.77
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	22.50	22.41	22.60	21.64	21.90	21.55	20.69	20.94	20.57
		1@37	22.43	22.53	22.74	21.67	21.97	21.69	20.73	21.01	20.79
		1@74	22.38	22.39	22.62	21.54	21.82	21.60	20.61	20.90	20.67
		36@0	21.60	21.51	21.84	20.49	20.47	20.80	19.52	19.52	19.82
		36@20	21.60	21.56	21.80	20.49	20.54	20.80	19.50	19.54	19.84
		36@39	21.48	21.52	21.75	20.40	20.48	20.66	19.48	19.56	19.76
		75@0	21.54	21.48	21.81	20.46	20.48	20.70	19.53	19.53	19.82
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	22.52	22.41	22.52	21.59	21.45	21.89	20.53	20.84	20.69
		1@49	22.71	22.65	22.83	21.77	21.75	22.20	20.71	21.09	20.95
		1@99	22.36	22.39	22.52	21.47	21.44	21.95	20.40	20.83	20.75
		50@0	21.43	21.44	21.70	20.42	20.41	20.74	19.43	19.44	19.74
		50@24	21.49	21.51	21.70	20.52	20.49	20.64	19.50	19.50	19.78
		50@50	21.40	21.46	21.53	20.38	20.49	20.55	19.38	19.45	19.54
		100@0	21.43	21.47	21.63	20.46	20.44	20.65	19.43	19.48	19.66

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

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

Limit:

FCC 47 CFR Part 22.913(a):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

FCC 47 CFR Part 24.232(c):

Mobile and portable stations are limited to 2 watts EIRP.

FCC 47 CFR Part 27.50(d)(4):

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

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

Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

FCC 47 CFR Part 27.50(h)(2):

Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

Test Procedure:

According to KDB 412172 D01 Power Approach,

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

where

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

Test Setup: Refer to section 4.2.1 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

Test Data: See table below

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

5.3.1 LTE Band 2

Main Antenna

Channel	Maximum EIRP (dBm)				Maximum EIRP (W)				Result
	QPSK	16QAM	64QAM	Limit (dBm)	QPSK	16QAM	64QAM	Limit (W)	
Channel Bandwidth: 1.4MHz									
Lowest	19.13	18.21	17.58	33.01	0.0818	0.0662	0.0573	2	Pass
Middle	18.91	17.99	17.36	33.01	0.0778	0.0630	0.0545	2	Pass
Highest	18.78	17.87	17.24	33.01	0.0755	0.0612	0.0530	2	Pass
Channel Bandwidth: 3MHz									
Lowest	19.08	17.91	17.40	33.01	0.0809	0.0618	0.0550	2	Pass
Middle	18.84	18.35	17.09	33.01	0.0766	0.0684	0.0512	2	Pass
Highest	18.65	17.66	17.48	33.01	0.0733	0.0583	0.0560	2	Pass
Channel Bandwidth: 5MHz									
Lowest	19.08	17.98	17.32	33.01	0.0809	0.0628	0.0540	2	Pass
Middle	18.85	17.67	17.03	33.01	0.0767	0.0585	0.0505	2	Pass
Highest	18.74	17.83	17.24	33.01	0.0748	0.0607	0.0530	2	Pass
Channel Bandwidth: 10MHz									
Lowest	19.45	18.26	17.44	33.01	0.0881	0.0670	0.0555	2	Pass
Middle	19.25	18.75	17.87	33.01	0.0841	0.0750	0.0612	2	Pass
Highest	19.06	18.08	17.19	33.01	0.0805	0.0643	0.0524	2	Pass
Channel Bandwidth: 15MHz									
Lowest	19.28	18.47	17.59	33.01	0.0847	0.0703	0.0574	2	Pass
Middle	19.15	18.63	17.76	33.01	0.0822	0.0729	0.0597	2	Pass
Highest	18.92	17.98	17.02	33.01	0.0780	0.0628	0.0504	2	Pass
Channel Bandwidth: 20MHz									
Lowest	19.50	18.58	17.58	33.01	0.0891	0.0721	0.0573	2	Pass
Middle	19.32	18.68	17.77	33.01	0.0855	0.0738	0.0598	2	Pass
Highest	19.33	18.17	17.31	33.01	0.0857	0.0656	0.0538	2	Pass