

FCC TEST REPORT

Product Name: Tablet
Trade Mark: BLU
Model No.: M10L PLUS
Report Number: 2309056740RFM-2
Test Standards: FCC 47 CFR Part 22
FCC 47 CFR Part 24
FCC 47 CFR Part 27
FCC 47 CFR Part 90
FCC ID: YHLBLUM10LP224
Test Result: PASS
Date of Issue: November 6, 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	November 6, 2023	Original



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1. GENERAL INFORMATION

1.1 CLIENT INFORMATION

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

1.2 EUT INFORMATION

1.2.1 General Description of EUT

Product Name:	Tablet		
Model No.:	M10L PLUS		
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 12/ Band 17/ Band 25 / Band 26 / Band 66/ Band 71	
		TDD Band 41	
	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
		Bluetooth 5.0	
	5 GHz U-NII Bands:	5 150 MHz to 5 250 MHz	IEEE 802.11a/n/ac
		5 725 MHz to 5 850 MHz	IEEE 802.11a/n/ac
	RNSS Band:	1559 MHz to 1610 MHz	GPS/ GLONASS / Galileo/ BDS
	BSR:	VHF Band II	FM
Software Version:	BLU_M0224_ND_V13.0.04.03_GENERIC (Provided by the customer)		
Hardware Version:	P612D2-V1 (Provided by the customer)		
Sample Received Date:	September 5, 2023		
Sample Tested Date:	September 11, 2023 to September 26, 2023		
Remark:	The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.		

1.2.2 Description of Accessories

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

Cable	
Connector:	USB Cable
Cable Type:	Unshielded without ferrite
Length:	0.5 Meter

Battery	
Model No.:	C1279829500P
Battery Type:	Lithium-ion Polymer Battery
Rated Voltage:	3.8 Vdc
Rated Capacity:	5000 mAh

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1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Support Networks:	Single Carrier: LTE Band 2/4/5/12/17/25/26/41/66/71	
Type of Modulation:	QPSK, 16QAM	
Antenna Type: (Provided by the customer)	FPCB Antenna	
Antenna Gain: (Provided by the customer)	LTE Band 2:	1.25 dBi
	LTE Band 4:	0.9 dBi
	LTE Band 5:	-0.98 dBi
	LTE Band 12:	-1.32 dBi
	LTE Band 17:	-1.32 dBi
	LTE Band 25:	-0.92 dBi
	LTE Band 26:	-1.02 dBi
	LTE Band 41:	1.24 dBi
	LTE Band 66:	0.9 dBi
	LTE Band 71:	-1.54 dBi
Sample No.:	Radiated: S202309012055-ZJA05/6	
	Conducted: S202309012055-ZJA01/6	
Normal Test Voltage:	3.7 Vdc	
Extreme Test Voltage:	3.4 to 4.2Vdc	
Extreme Test Temperature:	-10 °C to +60 °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	22.71	23.96	0.2489	1.0798	1M08G7D
		16QAM		21.74	22.99	0.1991	1.0790	1M08W7D
	3	QPSK	1851.5-1908.5	22.66	23.91	0.2460	2.6843	2M68G7D
		16QAM		22.18	23.43	0.2203	2.6767	2M68W7D
	5	QPSK	1852.5-1907.5	22.72	23.97	0.2495	4.4589	4M46G7D
		16QAM		21.70	22.95	0.1972	4.4665	4M47W7D
	10	QPSK	1855.0-1905.0	22.72	23.97	0.2495	8.9584	8M96G7D
		16QAM		22.29	23.54	0.2259	8.9414	8M94W7D
	15	QPSK	1857.5-1902.5	22.59	23.84	0.2421	13.401	13M4G7D
		16QAM		22.02	23.27	0.2123	13.419	13M4W7D
	20	QPSK	1860.0-1900.0	22.73	23.98	0.2500	17.886	17M9G7D
		16QAM		22.15	23.40	0.2188	17.891	17M9W7D
4	1.4	QPSK	1710.7-1754.3	22.94	23.84	0.2421	1.0783	1M08G7D
		16QAM		22.00	22.90	0.1950	1.0797	1M08W7D
	3	QPSK	1711.5-1753.5	22.86	23.76	0.2377	2.6779	2M68G7D
		16QAM		22.21	23.11	0.2046	2.6764	2M68W7D
	5	QPSK	1712.5-1752.5	22.85	23.75	0.2371	4.4603	4M46G7D
		16QAM		21.96	22.86	0.1932	4.4649	4M46W7D
	10	QPSK	1715-1750	23.05	23.95	0.2483	8.9507	8M95G7D
		16QAM		22.32	23.22	0.2099	8.9439	8M94W7D
	15	QPSK	1717.5-1747.5	22.86	23.76	0.2377	13.421	13M4G7D
		16QAM		22.27	23.17	0.2075	13.408	13M4W7D
	20	QPSK	1720-1745	23.07	23.97	0.2495	17.868	17M9G7D
		16QAM		22.31	23.21	0.2094	17.916	17M9W7D
5	1.4	QPSK	824.7-848.3	23.49	20.36	0.1086	1.0779	1M08G7D
		16QAM		22.61	19.48	0.0887	1.0782	1M08W7D
	3	QPSK	825.5-847.5	23.40	20.27	0.1064	2.6829	2M68G7D
		16QAM		22.88	19.75	0.0944	2.6773	2M68W7D
	5	QPSK	826.5-846.5	23.42	20.29	0.1069	4.4654	4M46G7D
		16QAM		22.50	19.37	0.0865	4.4611	4M46W7D
	10	QPSK	829-844	23.55	20.42	0.1102	8.962	8M96G7D
		16QAM		23.01	19.88	0.0973	8.958	8M96W7D

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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)	
12	1.4	QPSK	699.7-715.3	23.09	19.62	0.0916	1.0801	1M08G7D
		16QAM		22.18	18.71	0.0743	1.0795	1M08W7D
	3	QPSK	700.5-714.5	22.97	19.50	0.0891	2.6803	2M68G7D
		16QAM		22.44	18.97	0.0789	2.6743	2M67W7D
	5	QPSK	701.5-713.5	23.01	19.54	0.0899	4.4708	4M47G7D
		16QAM		22.08	18.61	0.0726	4.4707	4M47W7D
	10	QPSK	704-711	23.12	19.65	0.0923	8.9672	8M97G7D
		16QAM		22.52	19.05	0.0804	8.9481	8M95W7D
17	5	QPSK	706.5-713.5	22.65	19.18	0.0828	4.4668	4M47G7D
		16QAM		21.75	18.28	0.0673	4.4751	4M48W7D
	10	QPSK	709-711	22.83	19.36	0.0863	8.9535	8M95G7D
		16QAM		22.31	18.84	0.0766	8.9505	8M95W7D
25	1.4	QPSK	1850.7-1914.3	22.79	21.87	0.1538	1.0769	1M08G7D
		16QAM		21.86	20.94	0.1242	1.0795	1M08W7D
	3	QPSK	1851.5-1913.5	22.66	21.74	0.1493	2.6762	2M68G7D
		16QAM		21.99	21.07	0.1279	2.6749	2M67W7D
	5	QPSK	1852.5-1912.5	22.63	21.71	0.1483	4.4804	4M48G7D
		16QAM		21.56	20.64	0.1159	4.4665	4M47W7D
	10	QPSK	1855.0-1910.0	22.72	21.80	0.1514	8.9598	8M96G7D
		16QAM		22.06	21.14	0.1300	8.9489	8M95W7D
	15	QPSK	1857.5-1907.5	22.61	21.69	0.1476	13.427	13M4G7D
		16QAM		22.02	21.10	0.1288	13.435	13M4W7D
	20	QPSK	1860.0-1905.0	22.74	21.82	0.1521	17.884	17M9G7D
		16QAM		22.05	21.13	0.1297	17.898	17M9W7D
26	1.4	QPSK	824.7-848.3	23.27	22.25	0.1679	1.0768	1M08G7D
		16QAM		22.45	21.43	0.1390	1.0763	1M08W7D
	3	QPSK	825.5-847.5	23.20	22.18	0.1652	2.6757	2M68G7D
		16QAM		22.66	21.64	0.1459	2.6756	2M68W7D
	5	QPSK	826.5-846.5	23.29	22.27	0.1687	4.4611	4M46G7D
		16QAM		22.33	21.31	0.1352	4.4654	4M47W7D
	10	QPSK	829-844	23.27	22.25	0.1679	8.9644	8M96G7D
		16QAM		22.80	21.78	0.1507	8.9663	8M97W7D
	15	QPSK	831.5-841.5	23.32	22.30	0.1698	13.435	13M4G7D
		16QAM		22.72	21.70	0.1479	13.440	13M4W7D

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Bands	BW	Modulation	Frequency Range	Max RF Output Power (dBm)		EIRP (W)	99% BW (MHz)	Emission Designator
	(MHz)		(MHz)	Conducted (Average)	ERP/EIRP (Average)			
26 (Part 90S)	1.4	QPSK	814.7-823.3	23.08	22.06	0.1607	1.0801	1M08G7D
		16QAM		22.24	21.22	0.1324	1.0789	1M08W7D
	3	QPSK	815.5-822.5	22.90	21.88	0.1542	2.6774	2M68G7D
		16QAM		22.35	21.33	0.1358	2.6783	2M68W7D
	5	QPSK	816.5-821.5	22.98	21.96	0.1570	4.4524	4M45G7D
		16QAM		22.12	21.10	0.1288	4.4573	4M46W7D
	10	QPSK	819	22.98	21.96	0.1570	8.9146	8M91G7D
		16QAM		22.49	21.47	0.1403	8.9089	8M91W7D
41	5	QPSK	2498.5-2687.5	22.35	23.59	0.2286	4.4585	4M46G7D
		16QAM		22.38	23.62	0.2301	4.4667	4M47W7D
	10	QPSK	2501-2685	22.57	23.81	0.2404	8.9633	8M96G7D
		16QAM		22.43	23.67	0.2328	8.9607	8M96W7D
	15	QPSK	2503.5-2682.5	22.31	23.55	0.2265	13.460	13M5G7D
		16QAM		22.33	23.57	0.2275	13.453	13M5W7D
	20	QPSK	2506-2680	22.61	23.85	0.2427	17.951	18M0G7D
		16QAM		22.57	23.81	0.2404	17.897	17M9W7D
66	1.4	QPSK	1710.7-1779.3	23.00	23.90	0.2455	1.0791	1M08G7D
		16QAM		22.08	22.98	0.1986	1.0774	1M08W7D
	3	QPSK	1711.5-1778.5	22.91	23.81	0.2404	2.6782	2M68G7D
		16QAM		22.32	23.22	0.2099	2.6756	2M68W7D
	5	QPSK	1712.5-1777.5	22.98	23.88	0.2443	4.4763	4M48G7D
		16QAM		22.09	22.99	0.1991	4.4749	4M47W7D
	10	QPSK	1715-1775	23.07	23.97	0.2495	8.9485	8M95G7D
		16QAM		22.45	23.35	0.2163	8.9479	8M95W7D
71	5	QPSK	665.5-695.5	22.96	21.42	0.1387	4.4736	4M47G7D
		16QAM		22.04	20.50	0.1122	4.4702	4M47W7D
	10	QPSK	668-693	22.91	21.37	0.1371	8.9529	8M95G7D
		16QAM		22.47	20.93	0.1239	8.9531	8M95W7D
	15	QPSK	670.5-690.5	22.94	21.40	0.1380	13.435	13M4G7D
		16QAM		22.39	20.85	0.1216	13.442	13M4W7D
	20	QPSK	673-688	22.97	21.43	0.1390	17.922	17M9G7D
		16QAM		22.37	20.83	0.1211	17.877	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	0.1 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 × 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 & Band 25)			
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 & Band 26)			
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 41)			
Test Item	Test Requirement	Test Method	Result
Equivalent Isotropic Radiated Power (EIRP)	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 27.50(h)(2)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	FCC 47 CFR Part 27.50(d)(5)	KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Band Edge at antenna terminals	FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 27.53(m)(4)	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 27.54	ANSI C63.26-2015 & KDB 971168 D01v03r01	PASS

FCC 47 CFR Part 27 Test Cases (LTE Band 12& 17& 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

FCC 47 CFR Part 90 Test Cases (LTE Band 26)			
Test Item	Test Requirement	Test Method	Result
Effective Radiated Power (ERP)	FCC 47 CFR Part 2.1046 & FCC 47 CFR Part 90.635	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Conducted Output Power	FCC 47 CFR Part 2.1046(a) & FCC 47 CFR Part 90.635	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Peak-to-average ratio	N/A	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
99%&26dB Bandwidth	FCC 47 CFR Part 2.1049(h)	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Emission Mask	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.691	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Spurious emissions at antenna terminals	FCC 47 CFR Part 2.1051 & FCC 47 CFR Part 90.691	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Field strength of spurious radiation	FCC 47 CFR Part 2.1053 & FCC 47 CFR Part 90.691	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS
Frequency stability	FCC 47 CFR Part 2.1055 & FCC 47 CFR Part 90.213	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01	PASS

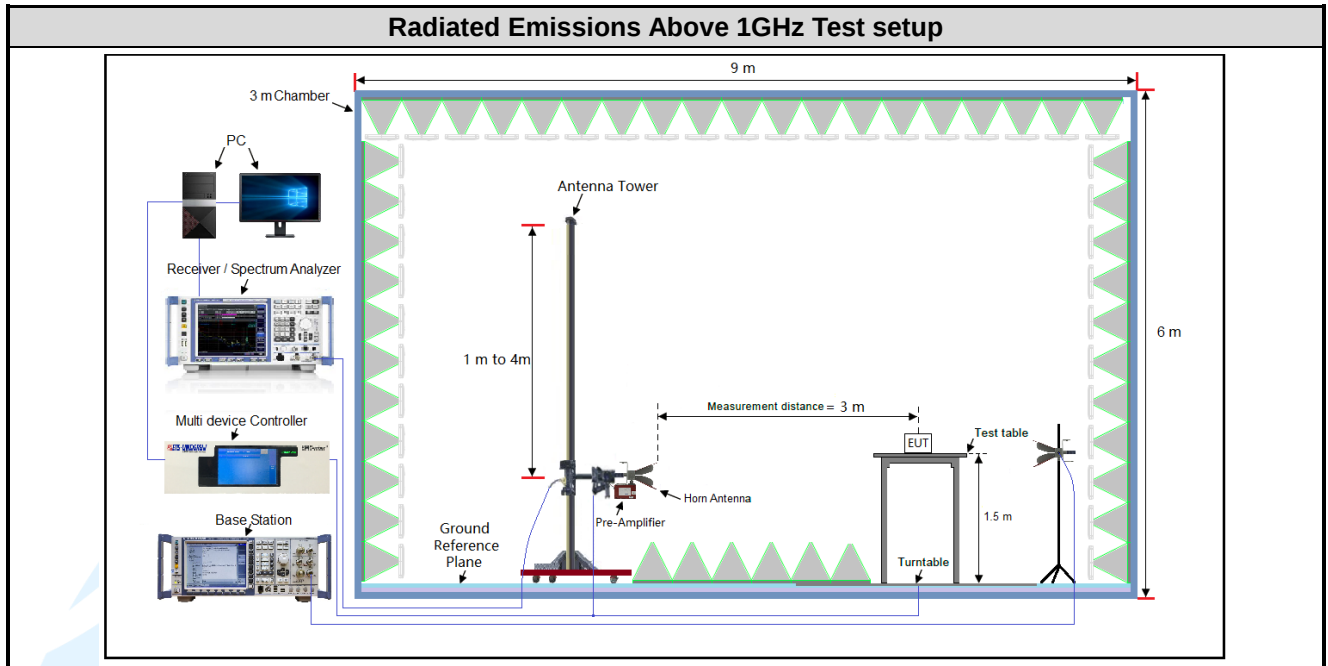
Disclaimer and Explanations:

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

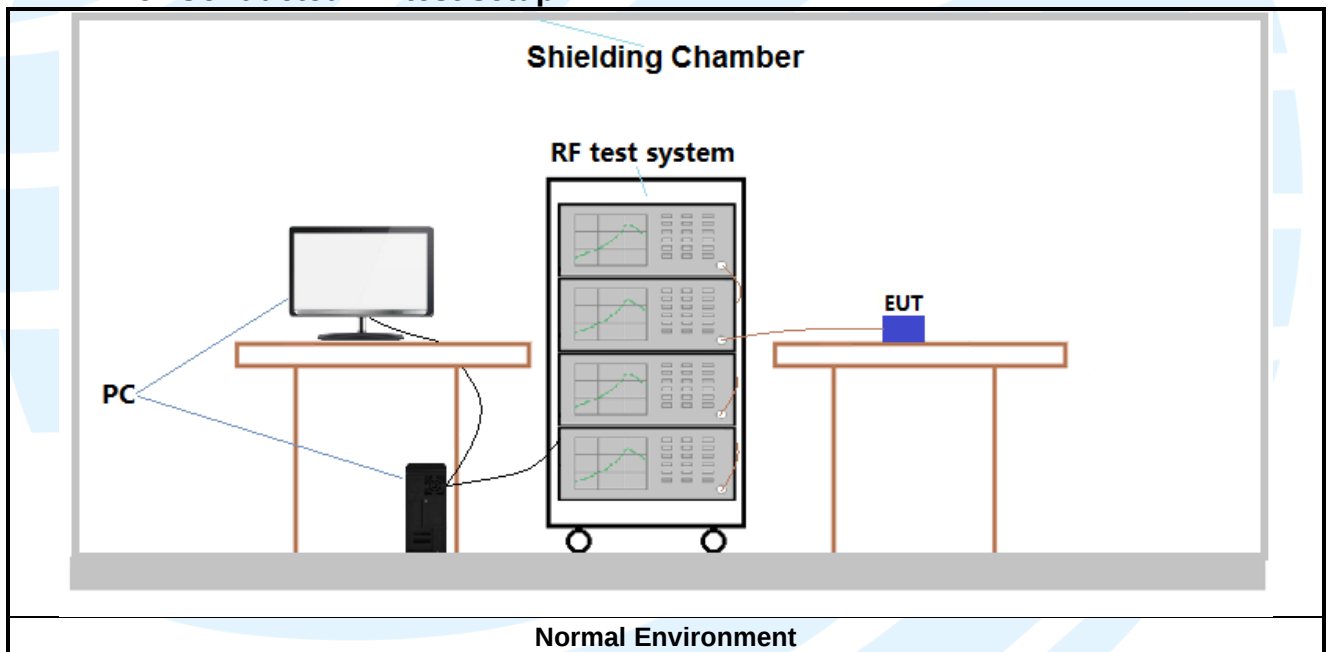
3. EQUIPMENT LIST

Radiated Emission Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	3m SAC	ETS-LINDGREN	3M	Euroshiedpn-CT001270-1317	22-Jan-2021	21-Jan-2024
☒	Receiver	R&S	ESIB26	100114	3-Nov-2022	2-Nov-2023
☒	Broadband Antenna	ETS-LINDGREN	3142E	00201566	13-Dec-2022	12-Dec-2023
☒	6dB Attenuator	Talent	RA6A5-N-18	18103001	13-Dec-2022	12-Dec-2023
☒	Preamplifier	HP	8447F	2805A02960	1-Nov-2022	31-Oct-2023
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201541	16-Apr-2023	15-Apr-2025
☒	Pre-amplifier	ETS-LINDGREN	00118385	00201874	1-Nov-2022	31-Oct-2023
☒	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	21-Nov-2022	20-Nov-2023
☒	Pre-amplifier	ETS-LINDGREN	00118384	00202652	21-Nov-2022	20-Nov-2023
☒	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A
☒	Test Software	Audix	e3	Software Version: 9.160323		

RF Conducted Test Equipment List						
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
☒	EXA Signal Analyzer	KEYSIGHT	N9010B	MY62060155	19-Apr-2023	18-Apr-2024
☒	DC Source	KIKUSUI	PWR400L	LK003024	N/A	N/A
☒	Digital multimeter	FLUKE	15B+	30701460WS15	02-Nov-2022	01-Nov-2023
☒	Temp & Humidity chamber	Votisch	VT4002	58566133290020	14-Apr-2023	13-Apr-2024
☒	Wideband Radio Communication Tester	R&S	CMW500	119583	14-Apr-2023	13-Apr-2024
☒	Wideband Radio Communication Tester	R&S	CMW500	120932	14-Apr-2023	13-Apr-2024



4.2.2 For Conducted RF test setup



Shenzhen UnionTrust Quality and Technology Co., Ltd.

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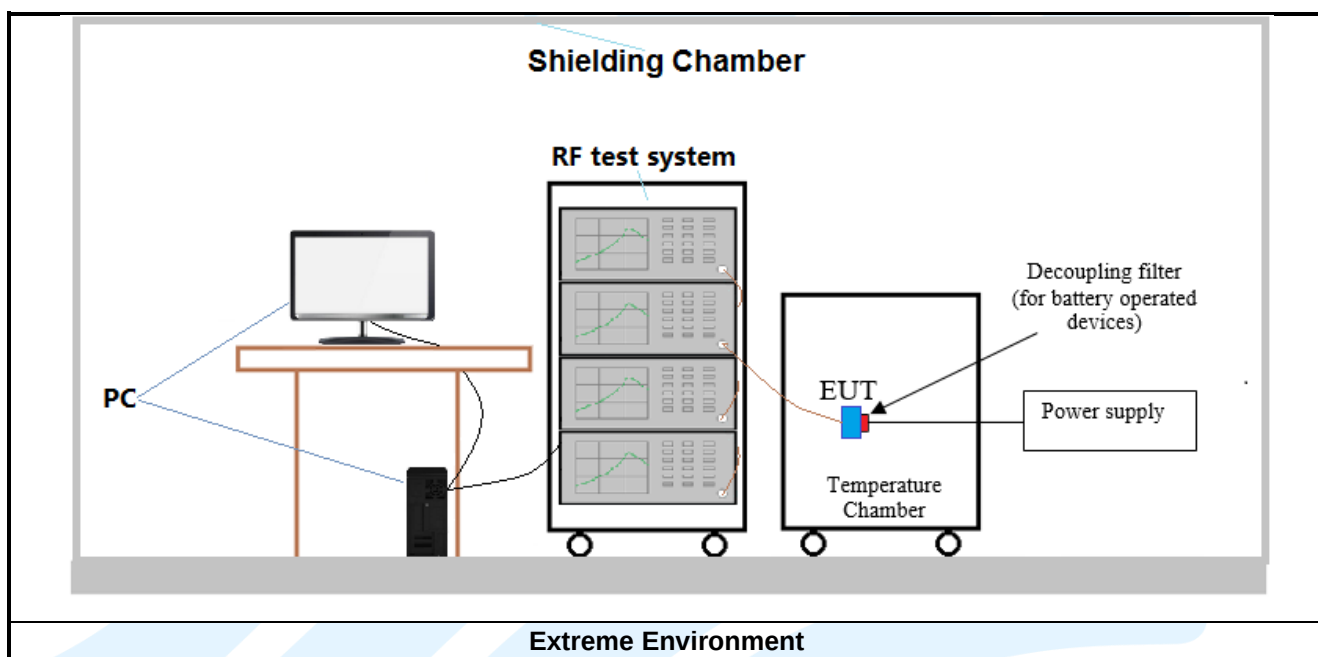
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4.3 TEST CHANNELS

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 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

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		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 25 TX: 1850-1915MHz	Low Range	1.4	26047	1850.7
		3	26055	1851.5
		5	26065	1852.5
		10	26090	1855
		15	26115	1857.5
		20	26140	1860
	Middle Range	1.4/3/5/10/15/20	26340	1880
	High Range	1.4	26683	1914.3
		3	26675	1913.5
		5	26665	1912.5
		10	26640	1910
		15	26615	1907.5
		20	26590	1905
LTE band 26 TX:824-849MHz	Low Range	1.4	26797	824.7
		3	26805	825.5
		5	26815	826.5
		10	26840	829
		15	26865	831.5
	Middle Range	1.4/3/5/10/15	26915	836.5
	High Range	1.4	27033	848.3
		3	27025	847.5
		5	27015	846.5
		10	26990	844
		15	26965	841.5
LTE band 26 TX: 814-824MHz	Low Range	1.4	26697	814.7
		3	26705	815.5
		5	26715	816.5
		10	/	/
		15	26765	821.5
	Middle Range	1.4/3/5/10	26740	819
	High Range	1.4	26783	823.3
		3	26775	822.5
		5	26765	821.5
		10	/	/
		15	/	/
LTE Band 41 TX: 2496-2690MHz	Low Range	5	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506

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	Middle Range	5/10/ 15/20	40620	2593
	High Range	5	41565	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680
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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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 3.7Vdc 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	☒	☒	☒	☒	--	--	☒	☒	☒	☒	☒	☒	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒
	25	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	26	☒	☒	☒	☒	☒	--	☒	☒	☒	☒	☒	☒	☒	☒	☒
	41	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒
99%&26dB Bandwidth	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☐	☐	☒	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☒	☒	☒
	25	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	26	☒	☒	☒	☒	☒	--	☒	☒	☒	☐	☐	☒	☒	☒	☒
	41	-	-	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒	☒
	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	☐	☐	☐	☒	--	--	☒	☒	☒	☐	☐	☒	☐	☒	☐
	12	☐	☐	☐	☒	-	-	☒	☒	☒	☐	☐	☒	☐	☒	☐
	17	-	-	☒	☒	-	-	☒	☒	☒	☐	☐	☒	☐	☒	☐
	25	☐	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	26	☐	☐	☐	☐	☒	--	☒	☒	☒	☐	☐	☒	☐	☒	☐
	41	-	-	☐	☐	☐	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	66	☐	☐	☐	☐	☐	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
	71	-	-	☐	☐	☐	☒	☒	☒	☒	☐	☐	☒	☐	☒	☐
Band Edge at antenna terminals	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☒	☐	☒	☒	☐	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☐	☒	☒	☐	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☐	☒	☒	☐	☒
	25	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	26	☒	☒	☒	☒	☒	--	☒	☒	☒	☒	☐	☒	☒	☐	☒
	41	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☒	☒	☐	☒
	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
Spurious emissions at antenna terminals	2	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	4	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	5	☒	☒	☒	☒	--	--	☒	☒	☒	☒	☐	☐	☒	☒	☒
	12	☒	☒	☒	☒	-	-	☒	☒	☒	☒	☐	☐	☒	☒	☒
	17	-	-	☒	☒	-	-	☒	☒	☒	☒	☐	☐	☒	☒	☒
	25	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	26	☒	☒	☒	☒	☒	--	☒	☒	☒	☒	☐	☐	☒	☒	☒
	41	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	66	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
	71	-	-	☒	☒	☒	☒	☒	☒	☒	☒	☐	☐	☒	☒	☒
Field strength of spurious radiation	2	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	4	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	5	☐	☐	☐	☒	--	--	☒	☐	☐	☒	☐	☐	☒	☒	☒
	12	☐	☐	☐	☒	-	-	☒	☐	☐	☒	☐	☐	☒	☒	☒
	17	-	-	☐	☒	-	-	☒	☐	☐	☒	☐	☐	☒	☒	☒
	25	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	26	☐	☐	☐	☐	☒	--	☒	☐	☐	☒	☐	☐	☒	☒	☒
	41	-	-	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	66	☐	☐	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒
	71	-	-	☐	☐	☐	☒	☒	☐	☐	☒	☐	☐	☒	☒	☒

Item	Band	Bandwidth(MHz)						Modulation			RB			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Frequency stability	2	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	4	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	5	☐	☐	☐	☒	--	--	☒	☐	☐	☐	☐	☒	☐	☒	☐
	12	☐	☐	☐	☒	-	-	☒	☐	☐	☐	☐	☒	☐	☒	☐
	17	-	-	☐	☒	-	-	☒	☐	☐	☐	☐	☒	☐	☒	☐
	25	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	26	☐	☐	☐	☐	☒	--	☒	☐	☐	☐	☐	☒	☐	☒	☐
	41	-	-	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	66	☐	☐	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
	71	-	-	☐	☐	☐	☒	☒	☐	☐	☐	☐	☒	☐	☒	☐
Remark: The mark "☒" means is chosen for testing; The mark "☐" means is not chosen for testing; The mark "-" means is not supported bandwidth																

5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION

5.1 REFERENCE DOCUMENTS FOR TESTING

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

5.2 CONDUCTED OUTPUT POWER

FCC 47 CFR Part 2.1046(a)

LTE Band 2 & LTE Band 25: 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 & LTE Band 26:** FCC 47 CFR Part 22.913(a)

LTE Band 41: FCC 47 CFR Part 27.50(h)(2)

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

LTE Band 26: FCC 47 CFR Part 90.635

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 90.635:

(a) The effective radiated power and antenna height for base stations may not exceed 1 kilowatt (30 dBw) and 304 m. (1,000 ft.) above average terrain (AAT), respectively, or the equivalent thereof as determined from the Table. These are maximum values, and applicants will be required to justify power levels and antenna heights requested.

(b) The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

Table—Equivalent Power and Antenna Heights for Base Stations in the 851–869 MHz and 935–940 MHz Bands Which Have a Requirement for a 32 km (20 mi) Service Area Radius

Antenna height (ATT) meters (feet)	Effective radiated power (watts) ^{1 2 4}
Above 1,372 (4,500)	65
Above 1,220 (4,000) to 1,372 (4,500)	70
Above 1,067 (3,500) to 1,220 (4,000)	75

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Above 915 (3,000) to 1,067 (3,500)	100
Above 763 (2,500) to 915 (3,000)	140
Above 610 (2,000) to 763 (2,500)	200
Above 458 (1,500) to 610 (2,000)	350
Above 305 (1,000) to 458 (1,500)	600
Up to 305 (1,000)	³ 1,000

1. Power is given in terms of effective radiated power (ERP).
2. Applicants in the Los Angeles, CA, area who demonstrate a need to serve both the downtown and fringe areas will be permitted to utilize an ERP of 1 kw at the following mountaintop sites: Santiago Park, Sierra Peak, Mount Lukens, and Mount Wilson.
3. Stations with antennas below 305 m (1,000 ft) (AAT) will be restricted to a maximum power of 1 kw (ERP).

Licensees in San Diego, CA, will be permitted to utilize an ERP of 500 watts at the following mountaintop sites: Palomar, Otay, Woodson and Miguel.

Test Procedure:

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

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

Test Setup: Refer to section 4.2.2 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Link mode

Test Results: Pass

5.2.1 LTE Band 2

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth (MHz)	RB	18607	18900	19193	18607	18900	19193
			1850.7	1880	1909.3	1850.7	1880	1909.3
2	1.4	1@0	22.59	22.35	22.15	21.26	21.33	20.99
		1@3	22.63	22.52	22.34	21.51	21.56	21.21
		1@5	22.57	22.34	22.18	21.32	21.35	20.99
		3@0	22.62	22.41	22.26	21.68	21.35	21.36
		3@1	22.71	22.47	22.33	21.69	21.67	21.46
		3@3	22.64	22.39	22.23	21.74	21.36	21.20
		6@0	21.61	21.39	21.28	20.62	20.44	20.27
Band	Bandwidth (MHz)	RB	18615	18900	19185	18615	18900	19185
			1851.5	1880	1908.5	1851.5	1880	1908.5
2	3	1@0	22.63	22.44	22.30	22.18	21.46	21.14
		1@8	22.66	22.50	22.30	22.13	21.46	21.17
		1@14	22.55	22.44	22.30	22.05	21.46	21.16
		8@0	21.67	21.49	21.30	20.82	20.44	20.36
		8@4	21.67	21.55	21.27	20.84	20.64	20.43
		8@7	21.68	21.44	21.26	20.82	20.43	20.32
		15@0	21.67	21.45	21.30	20.71	20.44	20.39
Band	Bandwidth (MHz)	RB	18625	18900	19175	18625	18900	19175
			1852.5	1880	1907.5	1852.5	1880	1907.5
2	5	1@0	22.68	22.44	22.19	21.37	21.62	21.10
		1@12	22.72	22.52	22.29	21.46	21.70	21.18
		1@24	22.53	22.41	22.15	21.34	21.56	21.09
		12@0	21.59	21.47	21.30	20.60	20.49	20.32
		12@7	21.70	21.54	21.31	20.82	20.69	20.41
		12@13	21.58	21.44	21.22	20.65	20.46	20.13
		25@0	21.61	21.46	21.25	20.68	20.42	20.34
Band	Bandwidth (MHz)	RB	18650	18900	19150	18650	18900	19150
			1855	1880	1905	1855	1880	1905
2	10	1@0	22.71	22.49	22.30	22.13	21.50	21.18
		1@25	22.72	22.62	22.49	22.29	21.56	21.24
		1@49	22.57	22.39	22.25	22.12	21.43	21.15
		25@0	21.64	21.56	21.36	20.72	20.59	20.44
		25@12	21.61	21.47	21.36	20.69	20.57	20.45
		25@25	21.60	21.46	21.20	20.67	20.48	20.29
		50@0	21.64	21.50	21.30	20.66	20.54	20.33
Band	Bandwidth (MHz)	RB	18675	18900	19125	18675	18900	19125
			1857.5	1880	1902.5	1857.5	1880	1902.5
2	15	1@0	22.59	22.41	22.36	21.77	21.97	21.32
		1@37	22.59	22.53	22.37	21.83	22.02	21.38
		1@74	22.45	22.37	22.22	21.70	21.87	21.16
		36@0	21.72	21.57	21.40	20.70	20.61	20.38
		36@20	21.68	21.57	21.43	20.68	20.55	20.49
		36@39	21.64	21.45	21.30	20.65	20.49	20.25
		75@0	21.66	21.53	21.36	20.66	20.54	20.37
Band	Bandwidth (MHz)	RB	18700	18900	19100	18700	18900	19100
			1860	1880	1900	1860	1880	1900
2	20	1@0	22.42	22.35	22.21	21.82	21.44	21.28
		1@49	22.73	22.71	22.52	22.15	21.88	21.66
		1@99	22.27	22.21	22.03	21.68	21.40	21.16
		50@0	21.66	21.47	21.47	20.68	20.54	20.49
		50@24	21.61	21.51	21.42	20.65	20.62	20.47
		50@50	21.61	21.36	21.23	20.64	20.42	20.25
		100@0	21.68	21.48	21.36	20.66	20.48	20.41

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5.2.2 LTE Band 4

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth (MHz)	RB	19957	20175	20393	19957	20175	20393
			1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
4	1.4	1@0	22.66	22.69	22.75	21.39	21.39	21.67
		1@3	22.85	22.74	22.94	21.63	21.62	21.89
		1@5	22.64	22.69	22.75	21.43	21.44	21.72
		3@0	22.68	22.73	22.80	21.66	21.83	21.70
		3@1	22.72	22.81	22.88	21.84	21.79	22.00
		3@3	22.70	22.73	22.80	21.63	21.84	21.69
		6@0	21.72	21.80	21.85	20.60	20.65	20.90
Band	Bandwidth (MHz)	RB	19965	20175	20385	19965	20175	20385
			1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
4	3	1@0	22.72	22.78	22.84	21.50	22.21	21.82
		1@8	22.71	22.73	22.86	21.48	22.21	21.83
		1@14	22.75	22.71	22.86	21.49	22.21	21.77
		8@0	21.66	21.71	21.84	20.74	20.89	20.85
		8@4	21.74	21.78	21.89	20.78	20.89	20.96
		8@7	21.69	21.75	21.82	20.72	20.87	20.73
		15@0	21.69	21.67	21.74	20.73	20.81	20.76
Band	Bandwidth (MHz)	RB	19975	20175	20375	19975	20175	20375
			1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
4	5	1@0	22.71	22.68	22.75	21.36	21.79	21.63
		1@12	22.74	22.83	22.85	21.41	21.96	21.69
		1@24	22.64	22.74	22.76	21.34	21.87	21.62
		12@0	21.64	21.70	21.81	20.66	20.70	20.78
		12@7	21.72	21.80	21.85	20.81	20.90	20.92
		12@13	21.66	21.77	21.78	20.68	20.77	20.78
		25@0	21.66	21.71	21.83	20.70	20.72	20.84
Band	Bandwidth (MHz)	RB	20000	20175	20350	20000	20175	20350
			1715	1732.5	1750	1715	1732.5	1750
4	10	1@0	22.88	22.67	22.82	22.17	21.65	21.65
		1@25	22.91	22.94	23.05	22.32	21.89	21.80
		1@49	22.69	22.76	22.78	22.12	21.78	21.61
		25@0	21.70	21.71	21.87	20.77	20.80	20.96
		25@12	21.71	21.74	21.82	20.76	20.78	20.98
		25@25	21.80	21.80	21.87	20.78	20.84	20.95
		50@0	21.73	21.81	21.82	20.75	20.80	20.93
Band	Bandwidth (MHz)	RB	20025	20175	20325	20025	20175	20325
			1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
4	15	1@0	22.57	22.63	22.73	21.76	22.08	21.75
		1@37	22.72	22.79	22.86	21.85	22.27	21.83
		1@74	22.58	22.73	22.75	21.75	22.20	21.71
		36@0	21.80	21.80	21.90	20.68	20.78	20.93
		36@20	21.79	21.79	21.96	20.69	20.73	20.99
		36@39	21.80	21.84	21.94	20.74	20.88	20.88
		75@0	21.80	21.85	21.90	20.71	20.84	20.91
Band	Bandwidth (MHz)	RB	20050	20175	20300	20050	20175	20300
			1720	1732.5	1745	1720	1732.5	1745
4	20	1@0	22.45	22.44	22.56	21.45	21.84	21.73
		1@49	22.83	22.86	23.07	21.90	22.31	22.11
		1@99	22.46	22.55	22.62	21.52	22.00	21.76
		50@0	21.67	21.76	21.84	20.68	20.73	20.76
		50@24	21.70	21.80	21.88	20.72	20.78	20.90
		50@50	21.73	21.80	21.83	20.76	20.83	20.81
		100@0	21.71	21.80	21.86	20.76	20.80	20.82

5.2.3 LTE Band 5

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth	RB	20407	20525	20643	20407	20525	20643
	(MHz)		824.7	836.5	848.3	824.7	836.5	848.3
5	1.4	1@0	23.26	23.27	23.25	22.12	22.04	22.24
		1@3	23.49	23.48	23.49	22.32	22.26	22.50
		1@5	23.31	23.27	23.27	22.14	22.02	22.23
		3@0	23.41	23.39	23.36	22.38	22.54	22.28
		3@1	23.40	23.40	23.40	22.61	22.42	22.57
		3@3	23.43	23.34	23.35	22.44	22.49	22.28
		6@0	22.34	22.34	22.37	21.30	21.35	21.37
Band	Bandwidth	RB	20415	20525	20635	20415	20525	20635
	(MHz)		825.5	836.5	847.5	825.5	836.5	847.5
5	3	1@0	23.29	23.32	23.32	22.18	22.88	22.40
		1@8	23.35	23.30	23.34	22.19	22.85	22.31
		1@14	23.40	23.23	23.35	22.24	22.78	22.37
		8@0	22.34	22.32	22.36	21.42	21.45	21.34
		8@4	22.39	22.34	22.40	21.45	21.49	21.51
		8@7	22.35	22.29	22.34	21.42	21.48	21.31
		15@0	22.33	22.30	22.35	21.40	21.38	21.30
Band	Bandwidth	RB	20425	20525	20625	20425	20525	20625
	(MHz)		826.5	836.5	846.5	826.5	836.5	846.5
5	5	1@0	23.29	23.27	23.30	22.13	22.03	22.44
		1@12	23.42	23.40	23.38	22.34	22.15	22.50
		1@24	23.25	23.24	23.30	22.19	22.03	22.38
		12@0	22.31	22.27	22.21	21.36	21.23	21.29
		12@7	22.41	22.37	22.44	21.50	21.43	21.56
		12@13	22.40	22.27	22.38	21.36	21.21	21.36
		25@0	22.41	22.23	22.34	21.42	21.29	21.39
Band	Bandwidth	RB	20450	20525	20600	20450	20525	20600
	(MHz)		829	836.5	844	829	836.5	844
5	10	1@0	23.31	23.35	23.30	22.32	22.13	22.82
		1@25	23.55	23.45	23.48	22.55	22.30	23.01
		1@49	23.39	23.40	23.33	22.29	22.14	22.81
		25@0	22.45	22.26	22.50	21.51	21.38	21.58
		25@12	22.38	22.36	22.44	21.46	21.50	21.51
		25@25	22.52	22.24	22.58	21.54	21.32	21.65
		50@0	22.50	22.20	22.52	21.53	21.29	21.57

5.2.4 LTE Band 12

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth	RB	23017	23095	23173	23017	23095	23173
	(MHz)		699.7	707.5	715.3	699.7	707.5	715.3
12	1.4	1@0	23.04	22.87	22.81	21.62	21.84	21.64
		1@3	23.09	23.01	22.99	21.81	22.00	21.88
		1@5	22.94	22.88	22.83	21.62	21.80	21.73
		3@0	22.95	22.92	22.89	22.09	21.79	21.89
		3@1	22.98	23.01	23.01	22.04	22.10	22.18
		3@3	22.99	22.90	22.93	22.17	21.85	21.92
		6@0	21.94	21.95	21.92	20.89	20.91	20.82
Band	Bandwidth	RB	23025	23095	23165	23025	23095	23165
	(MHz)		700.5	707.5	714.5	700.5	707.5	714.5
12	3	1@0	22.94	22.89	22.87	22.44	21.95	21.69
		1@8	22.97	22.94	22.90	22.39	21.90	21.67
		1@14	22.94	22.85	22.93	22.41	21.83	21.72
		8@0	21.90	21.91	21.91	20.99	20.84	20.96
		8@4	21.96	21.91	21.94	21.09	20.96	20.96
		8@7	21.95	21.86	21.85	21.08	20.80	20.89
		15@0	21.91	21.84	21.88	20.97	20.78	20.91
Band	Bandwidth	RB	23035	23095	23155	23035	23095	23155
	(MHz)		701.5	707.5	713.5	701.5	707.5	713.5
12	5	1@0	22.97	22.81	22.73	21.59	21.94	21.63
		1@12	23.01	23.01	22.87	21.73	22.08	21.76
		1@24	22.82	22.81	22.82	21.60	21.93	21.67
		12@0	21.80	21.89	21.81	20.75	20.94	20.71
		12@7	21.93	21.92	21.90	21.01	21.04	20.98
		12@13	21.91	21.88	21.73	20.81	20.84	20.71
		25@0	21.85	21.85	21.78	20.87	20.90	20.81
Band	Bandwidth	RB	23060	23095	23130	23060	23095	23130
	(MHz)		704	707.5	711	704	707.5	711
12	10	1@0	22.91	22.86	22.91	21.88	21.67	22.39
		1@25	23.08	23.12	23.06	22.04	21.89	22.52
		1@49	22.94	22.86	22.91	21.90	21.68	22.41
		25@0	21.77	22.11	21.89	20.82	21.16	20.97
		25@12	21.94	21.91	21.94	20.98	21.00	20.96
		25@25	21.82	22.09	21.85	20.82	21.14	20.89
		50@0	21.73	22.08	21.88	20.79	21.11	20.90

5.2.5 LTE Band 17

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth	RB	23755	23790	23825	23755	23790	23825
	(MHz)		706.5	710	713.5	706.5	710	713.5
17	5	1@0	22.53	22.55	22.53	21.42	21.29	21.68
		1@12	22.58	22.65	22.65	21.53	21.35	21.75
		1@24	22.52	22.47	22.48	21.41	21.23	21.62
		12@0	21.73	21.53	21.45	20.62	20.50	20.42
		12@7	21.67	21.64	21.64	20.67	20.70	20.75
		12@13	21.56	21.66	21.40	20.49	20.61	20.42
		25@0	21.64	21.60	21.45	20.62	20.61	20.40
Band	Bandwidth	RB	23780	23790	23800	23780	23790	23800
	(MHz)		709	710	711	709	710	711
17	10	1@0	22.58	22.54	22.54	21.39	22.05	21.58
		1@25	22.83	22.74	22.82	21.60	22.31	21.64
		1@49	22.57	22.52	22.54	21.35	22.07	21.60
		25@0	21.76	21.66	21.57	20.75	20.72	20.60
		25@12	21.69	21.62	21.62	20.76	20.62	20.69
		25@25	21.79	21.66	21.50	20.81	20.65	20.50
		50@0	21.75	21.68	21.51	20.72	20.68	20.55

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5.2.6 LTE Band 25

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth (MHz)	RB	26047	26365	26683	26047	26365	26683
			1850.7	1882.5	1914.3	1850.7	1882.5	1914.3
25	1.4	1@0	22.58	22.45	22.29	21.38	21.13	20.77
		1@3	22.79	22.59	22.41	21.59	21.40	21.05
		1@5	22.57	22.42	22.26	21.37	21.12	20.73
		3@0	22.65	22.53	22.32	21.67	21.61	20.78
		3@1	22.73	22.57	22.16	21.86	21.55	21.03
		3@3	22.71	22.48	22.18	21.63	21.58	20.81
		6@0	21.66	21.48	21.06	20.59	20.49	19.86
Band	Bandwidth (MHz)	RB	26055	26365	26675	26055	26365	26675
			1851.5	1882.5	1913.5	1851.5	1882.5	1913.5
25	3	1@0	22.66	22.47	22.25	21.46	21.97	21.19
		1@8	22.65	22.50	22.26	21.46	21.99	21.12
		1@14	22.60	22.40	22.30	21.48	21.98	21.17
		8@0	21.61	21.49	21.29	20.73	20.64	20.10
		8@4	21.65	21.52	21.31	20.71	20.64	19.96
		8@7	21.60	21.44	21.29	20.69	20.60	20.27
		15@0	21.61	21.47	21.26	20.67	20.55	19.96
Band	Bandwidth (MHz)	RB	26065	26365	26665	26065	26365	26665
			1852.5	1882.5	1912.5	1852.5	1882.5	1912.5
25	5	1@0	22.53	22.37	22.21	21.41	21.14	21.38
		1@12	22.63	22.50	22.34	21.56	21.26	21.44
		1@24	22.46	22.35	22.25	21.36	21.13	21.14
		12@0	21.56	21.45	21.30	20.48	20.47	20.15
		12@7	21.67	21.51	21.37	20.76	20.61	20.06
		12@13	21.61	21.42	21.27	20.57	20.39	19.95
		25@0	21.56	21.43	21.24	20.59	20.48	20.18
Band	Bandwidth (MHz)	RB	26090	26365	26640	26090	26365	26640
			1855	1882.5	1910	1855	1882.5	1910
25	10	1@0	22.61	22.52	22.31	21.42	22.00	20.88
		1@25	22.72	22.62	22.49	21.62	22.06	21.19
		1@49	22.59	22.46	22.31	21.42	21.94	20.86
		25@0	21.60	21.56	21.53	20.69	20.59	20.02
		25@12	21.66	21.56	21.16	20.79	20.60	19.93
		25@25	21.60	21.42	21.22	20.70	20.49	19.99
		50@0	21.61	21.49	21.41	20.68	20.55	20.44
Band	Bandwidth (MHz)	RB	26115	26365	26615	26115	26365	26615
			1857.5	1882.5	1907.5	1857.5	1882.5	1907.5
25	15	1@0	22.56	22.41	22.29	21.75	21.93	21.30
		1@37	22.61	22.44	22.34	21.82	22.02	21.34
		1@74	22.47	22.39	22.21	21.68	21.89	21.18
		36@0	21.72	21.57	21.43	20.69	20.55	20.44
		36@20	21.71	21.58	21.39	20.66	20.50	20.43
		36@39	21.64	21.46	21.29	20.62	20.43	20.28
		75@0	21.70	21.49	21.41	20.65	20.48	20.40
Band	Bandwidth (MHz)	RB	26140	26365	26590	26140	26365	26590
			1860	1882.5	1905	1860	1882.5	1905
25	20	1@0	22.39	22.23	22.17	21.44	21.72	21.33
		1@49	22.74	22.62	22.45	21.86	22.05	21.67
		1@99	22.29	22.13	22.10	21.40	21.59	21.25
		50@0	21.70	21.58	21.33	20.69	20.57	20.34
		50@24	21.67	21.54	21.38	20.68	20.48	20.38
		50@50	21.60	21.43	21.10	20.65	20.45	20.08
		100@0	21.67	21.47	21.24	20.67	20.54	20.28

5.2.7 LTE Band 26

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth	RB	26797	26915	27033	26797	26915	27033
	(MHz)		824.7	836.5	848.3	824.7	836.5	848.3
26	1.4	1@0	23.11	23.10	23.08	21.95	22.05	21.89
		1@3	23.25	23.26	23.27	22.03	22.27	22.04
		1@5	23.09	23.05	23.03	21.90	22.05	21.94
		3@0	23.25	23.12	23.19	22.33	22.14	22.20
		3@1	23.26	23.24	23.23	22.27	22.45	22.39
		3@3	23.20	23.19	23.24	22.38	22.12	22.19
		6@0	22.17	22.13	22.15	21.26	21.21	21.13
Band	Bandwidth	RB	26805	26915	27025	26805	26915	27025
			825.5	836.5	847.5	825.5	836.5	847.5
26	3	1@0	23.12	23.08	23.09	22.11	21.91	22.66
		1@8	23.20	23.15	23.19	22.16	21.98	22.63
		1@14	23.13	23.06	23.12	22.14	21.95	22.58
		8@0	22.14	22.08	22.13	21.19	21.20	21.24
		8@4	22.17	22.13	22.19	21.30	21.21	21.35
		8@7	22.11	22.09	22.14	21.09	21.19	21.28
		15@0	22.14	22.12	22.11	21.09	21.20	21.19
Band	Bandwidth	RB	26815	26915	27015	26815	26915	27015
			826.5	836.5	846.5	826.5	836.5	846.5
26	5	1@0	23.04	23.04	23.12	22.18	21.89	21.92
		1@12	23.15	23.12	23.29	22.33	22.06	21.98
		1@24	23.13	23.04	23.05	22.25	21.92	21.86
		12@0	22.27	22.03	22.04	21.27	21.03	21.06
		12@7	22.20	22.17	22.22	21.36	21.33	21.33
		12@13	22.14	22.06	22.19	21.18	21.04	21.21
		25@0	22.15	22.06	22.16	21.21	21.17	21.23
Band	Bandwidth	RB	26840	26915	26990	26840	26915	26990
			829	836.5	844	829	836.5	844
26	10	1@0	23.08	23.09	23.09	22.63	22.16	21.95
		1@25	23.25	23.18	23.27	22.80	22.29	22.10
		1@49	23.11	23.11	23.09	22.66	22.18	21.91
		25@0	22.22	22.02	22.35	21.32	21.08	21.47
		25@12	22.21	22.16	22.27	21.25	21.29	21.36
		25@25	22.32	21.99	22.39	21.40	21.00	21.44
		50@0	22.29	22.02	22.39	21.29	21.15	21.40
Band	Bandwidth	RB	26865	26915	26965	26865	26915	26965
			831.5	836.5	841.5	831.5	836.5	841.5
26	15	1@0	23.06	23.00	23.06	22.58	22.03	22.21
		1@37	23.19	23.14	23.32	22.72	22.13	22.33
		1@74	23.11	23.04	22.96	22.58	22.16	22.21
		36@0	22.13	22.04	22.25	21.17	21.05	21.28
		36@20	22.24	22.18	22.14	21.24	21.21	21.24
		36@39	22.15	21.96	22.30	21.28	21.10	21.33
		75@0	22.16	21.98	22.33	21.17	21.04	21.31

5.2.8 LTE Band 26 (Part 90S)

Conducted Power(dBm)								
Modulation			QPSK			16QAM		
Band	Bandwidth	RB	26697	26740	26783	26697	26740	26783
	(MHz)		814.7	819	823.3	814.7	819	823.3
26	1.4	1@0	22.80	22.81	22.84	21.65	21.56	21.88
		1@3	23.03	23.08	23.08	21.85	21.80	22.09
		1@5	22.80	22.77	22.82	21.69	21.50	21.85
		3@0	22.89	22.92	22.95	21.97	22.03	21.87
		3@1	22.97	22.97	23.07	22.14	22.00	22.24
		3@3	22.94	22.94	22.91	22.03	22.01	21.85
		6@0	21.85	21.85	21.99	20.74	20.88	20.91
Band	Bandwidth	RB	26705	26740	26775	26705	26740	26775
			815.5	819	822.5	815.5	819	822.5
26	3	1@0	22.85	22.85	22.85	21.69	22.35	21.89
		1@8	22.90	22.84	22.85	21.75	22.35	21.94
		1@14	22.88	22.80	22.88	21.72	22.35	21.89
		8@0	21.83	21.82	21.90	20.93	20.95	20.92
		8@4	21.94	21.86	21.91	20.98	21.04	21.04
		8@7	21.84	21.82	21.81	20.95	21.01	20.83
		15@0	21.91	21.82	21.91	20.98	20.93	20.86
Band	Bandwidth	RB	26715	26740	26765	26715	26740	26765
			816.5	819	821.5	816.5	819	821.5
26	5	1@0	22.80	22.81	22.69	21.61	21.58	21.91
		1@12	22.91	22.90	22.98	21.86	21.63	22.12
		1@24	22.77	22.81	22.81	21.64	21.59	21.94
		12@0	21.79	21.71	21.89	20.73	20.82	20.96
		12@7	21.91	21.89	21.92	21.01	21.02	21.10
		12@13	21.92	21.78	21.77	20.85	20.80	20.77
		25@0	21.90	21.83	21.82	20.89	20.89	20.91
Band	Bandwidth	RB	--	26740	--	--	26740	--
			--	819	--	--	819	--
26	10	1@0	--	22.94	--	--	22.37	--
		1@25	--	22.98	--	--	22.49	--
		1@49	--	22.89	--	--	22.42	--
		25@0	--	21.72	--	--	20.86	--
		25@12	--	21.86	--	--	20.91	--
		25@25	--	21.72	--	--	20.82	--
		50@0	--	21.76	--	--	20.83	--
Band	Bandwidth	RB	--	26765	--	--	26765	--
			--	821.5	--	--	821.5	--
26	15	1@0	--	22.86	--	--	21.97	--
		1@37	--	23.11	--	--	22.08	--
		1@74	--	22.88	--	--	21.97	--
		36@0	--	21.80	--	--	20.78	--
		36@20	--	21.93	--	--	20.95	--
		36@39	--	21.77	--	--	20.78	--
		75@0	--	21.78	--	--	20.75	--