



FCC Test Report

FCC ID: 2BH HH-M26

Applicant: Shenzhen Pinjin Technology Co., Ltd.

Address: Room 401, Building 7, Anhua Community, Shatou Street, Futian District, Shenzhen

Manufacturer: Shenzhen Pinjin Technology Co., Ltd.

Address: Room 401, Building 7, Anhua Community, Shatou Street, Futian District, Shenzhen

Product Name: Smartphone

Trade Mark: MSEVC

Model Number: M26 Ultra, M26, M26 Pro, S25 Ultra, S26 Ultra, S26 Pro, A56, A71, W26 Ultra, G26 Ultra

Date of Receipt: Jan. 27, 2026

Test Date: Jan. 27, 2026 - May 12, 2026

Date of Report: May 12, 2026

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen, China

Applicable Standards: FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E
FCC CFR Title 47 Part27
ANSI/ TIA/ EIA-603-E-2016
FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
ANSI C63.26:2015

Test Result: Pass

Report Number: DLE-260127043R

Prepared (Test Engineer): Alisa Song

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

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**1. TEST SUMMARY**

Test Items	Test Requirement	Result
Conducted RF Output Power	2.1046,27.50(c)	PASS
Peak to Average Ratio	22.355 24.235,27.54,27.50(c)	PASS
99% & -26 dB Occupied Bandwidth	2.1049, 22.917 24.238,	PASS
Frequency Stability	2.1055, 22.355 24.235, 27.54	PASS
Conducted Out of Band Emissions	2.1051,2.1057 22.917, 24.238 27.53(g)/27.53(h)/27.53(m)	PASS
Band Edge	2.1051,2.1057 22.917, 24.238 27.53(g)/27.53(h)/27.53(m)	PASS
Transmitter Radiated Power (EIPR/ERP)	22.913, 24.232 27.50(c)27.50(d)(4)/27.50(h)(2)	PASS
Radiated Out of Band Emissions	2.1053,2.1057 22.917, 24.238 27.53(h) /27.53(m)	PASS



2. GENERAL PRODUCT INFORMATION

2.1. Description of Device (EUT)

Product Name:	Smartphone
Trade Mark:	MSEVC
Model Number:	M26 Ultra, M26, M26 Pro, S25 Ultra, S26 Ultra, S26 Pro, A56, A71, W26 Ultra, G26 Ultra
Test Model:	M26 Ultra
Model Difference	All models are same as the samples except model name and appearance color, they have the same structure and circuit.
Operation Frequency:	GSM 850: Tx: 824.20 - 848.80MHz; Rx: 869.20 - 893.80MHz GSM1900: Tx: 1850.20 - 1909.80MHz; Rx: 1930.20 - 1989.80MHz WCDMA Band 2: Tx: 1850.00 - 1910.00MHz; Rx: 1930.00 - 1990.00MHz WCDMA Band 5: Tx: 824.00 - 849.00MHz; Rx: 869.00 - 894.00MHz LTE Band 2: Tx: 1850.00 - 1910.00MHz; Rx: 1930.00 - 1990.00MHz LTE Band 4: Tx: 1710.00 - 1755.00MHz; Rx: 2110.00 - 2155.00MHz LTE Band 5: Tx: 824.00 - 849.00MHz; Rx: 869.00 - 894.00MHz LTE Band 7: Tx: 2500.00 - 2570.00MHz; Rx: 2620.00 - 2690.00MHz LTE Band 12: Tx: 699.00 - 716.00MHz; Rx: 729.00 - 746.00MHz LTE Band 66: Tx: 1710.00 - 1780.00MHz; Rx: 2110.00 - 2200.00MHz
Modulation technology:	GSM Mode with GMSK Modulation WCDMA Mode with BPSK Modulation HSDPA Mode with QPSK, 16QAM Modulation HSUPA Mode with QPSK, 16QAM Modulation LTE Mode with QPSK, 16QAM
Antenna Type:	Internal Antenna
Antenna gain:	GSM850: -1.5dBi, GSM1900: 0.2dBi, WCDMA Band 2: 0.2dBi, WCDMA Band 5: -1.5dBi LTE Band 2: 0.2dBi, LTE Band 4: 0.2dBi, LTE Band 5: -1.5dBi, LTE Band 7: 0.2dBi, LTE Band 12: -1.5dBi, LTE Band 66: 0.2dBi
Power supply:	DC 5V from adapter DC 3.85V from battery
LTE Category	4
Hardware Version	1.0
Software Version	1.0

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The EUT's all information provided by client.

2.2. Product Function

Refer to Technical Construction Form and User Manual.



2.3. Independent Operation Modes

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
GSM	GSM/GPRS/EGPRS	GSM/GPRS/EGPRS
WCDMA	RMC/ HSDPA/ HSUPA	RMC/ HSDPA/ HSUPA
LTE Band 2	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%
LTE Band 4	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%
LTE Band 5	Bandwidth:(MHz)1.4/3/5/10MHz Modulation: QPSK/16QAM RB:1/50%/100%	Bandwidth:(MHz)1.4/3/5/10MHz Modulation: QPSK/16QAM RB:1/50%/100%
LTE Band7	Bandwidth:(MHz) 5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	Bandwidth:(MHz) 5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%
LTE Band12	Bandwidth:(MHz)1.4/3/5/10MHz Modulation: QPSK/16QAM RB:1/50%/100%	Bandwidth:(MHz)1.4/3/5/10MHz Modulation: QPSK/16QAM RB:1/50%/100%
LTE Band66	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/50%/100%

Test Channel(MHz)			
Band	Low	Middle	High
GSM850	824.20	836.60	848.80
GSM1900	1850.20	1880.00	1909.80
WCDMA Band 2	1852.4	1880	1907.6
WCDMA Band 5	826.4	836.6	846.6
LTE Band 2	1850.7	1880	1909.3
LTE Band 4	1710.7	1732.5	1754.3
LTE Band 5	824.7	836.5	848.3
LTE Band 7	2502.5	2535	2567.6
LTE Band12	699.1	707.5	715.3
LTE Band 66	1710.7	1745.0	1779.0

Note1: for LTE mode, if the bandwidth is different, the test frequency is changed.

2: we pretest all voltage, only the DC 3.85V was worst mode, and the data show in the report.



3. TEST SITES

3.1. Test Facilities

Site Description

Name of Firm : Shenzhen DL Testing Technology Co., Ltd.

101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory

Site Location : Area, No.1 Baolong Fifth Road, Baolong Community, Baolong Street,
Longgang District, Shenzhen, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

3.2. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95 %**.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



3.3. List of Test and Measurement Instruments

3.3.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
843 Shielded Room	ChengYu	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
EMI Receiver	R&S	ESR	101421	Oct. 25, 2025	Oct. 24, 2026
LISN	R&S	ENV216	102417	Oct. 25, 2025	Oct. 24, 2026
843 Cable 1#	ChengYu	CE Cable	001	Oct. 25, 2025	Oct. 24, 2026
843 Cable 1#	FUJIKURA	843C1#	001	Oct. 25, 2025	Oct. 24, 2026

3.3.2. For radiated test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Oct. 25, 2025	Oct. 24, 2026
Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Oct. 25, 2025	Oct. 24, 2026
Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Oct. 25, 2025	Oct. 24, 2026
Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00311	Oct. 25, 2025	Oct. 24, 2026
Horn Antenna(1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Oct. 25, 2025	Oct. 24, 2026
Horn Antenna(1GHz-18GHz)	Schwarzbeck	BBHA9120D	02143	Oct. 25, 2025	Oct. 24, 2026
Horn Antenna(18-40GHz)	A.H. Systems	SAS-574	588	Oct. 25, 2025	Oct. 24, 2026
Horn Antenna(18-40GHz)	A.H. Systems	SAS-574	581	Oct. 25, 2025	Oct. 24, 2026
Amplifier(9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Oct. 25, 2025	Oct. 24, 2026
Amplifier(1GHz-18GHz)	EMEC	EM01G8GA	00270	Oct. 25, 2025	Oct. 24, 2026
Amplifier(18GHz-40GHz)	Quanjuda	DLE-161	97	Oct. 25, 2025	Oct. 24, 2026
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Oct. 25, 2025	Oct. 24, 2026
RF cables1(9KHz-1GHz)	ChengYu	966	004	Oct. 25, 2025	Oct. 24, 2026
RF cables2(1GHz-40GHz)	ChengYu	966	003	Oct. 25, 2025	Oct. 24, 2026
Antenna connector	Florida RF Labs	N/A	RF 01#	Oct. 25, 2025	Oct. 24, 2026
Power probe	KEYSIGHT	U2021XA	MY55210018	Oct. 25, 2025	Oct. 24, 2026
Signal Analyzer	Agilent	N9020A	MY55370280	Oct. 25, 2025	Oct. 24, 2026
Test Receiver	R&S	ESU 40	100376	Oct. 25, 2025	Oct. 24, 2026
D.C. Power Supply	LongWei	PS-305D	010964729	Oct. 25, 2025	Oct. 24, 2026
Signal Amplifier	DAZE	ZN3380B	11235	Oct. 25, 2025	Oct. 24, 2026
High Pass filter	KANGMAI	WHKX1.0/1.5G-10SS	40	Oct. 25, 2025	Oct. 24, 2026
Filter	COM-MW	ZBSF-C836.5-25-X	BCTC042	Oct. 25, 2025	Oct. 24, 2026
Filter	COM-MW	ZBSF-C1747.5-75-X2	BCTC045	Oct. 25, 2025	Oct. 24, 2026
Filter	COM-MW	ZBSF-C1880-60-X2	BCTC047	Oct. 25, 2025	Oct. 24, 2026
Splitter	Agilent	11435B	1125162	Oct. 25, 2025	Oct. 24, 2026

RF CONDUCTED TEST

System Simulator	Agilent	E5515C	GB43130252	Oct. 25, 2025	Oct. 24, 2026
Spectrum Analyzer	Agilent	N9020A	MY45108040	Oct. 25, 2025	Oct. 24, 2026
DC Power Supply	LongWei	PS-305D	010965682	Oct. 25, 2025	Oct. 24, 2026
Constant temperature and humidity box	GF	GTH-800-40-2P	MAA9906-012	Oct. 25, 2025	Oct. 24, 2026
Universal radio communication tester	R&S	CMW500	115295	Oct. 25, 2025	Oct. 24, 2026



4. TEST SET-UP

4.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

4.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators

EUT

4.3. Test Environment:

Ambient conditions in the test laboratory:

Items	Actual
Temperature (°C)	21~23
Humidity (%RH)	50~65



5. EMISSION TEST RESULTS

5.1. Conducted RF Output Power

5.1.1. Limit

According to FCC section 2.1046(a), FCC part22.913(a), FCC part22.50(a) and FCC part 24.232(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

5.1.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

5.1.3. Test Result

Here the lowest, middle and highest channels are selected to perform testing to verify the conducted RF output power of the EUT.

Pass

The conducted power tables are as follows:

Average Conducted Power(dBm)						
Band	GSM850			PCS1900		
Channel	128	190	251	512	661	810
Frequency	824.20	836.60	848.80	1850.20	1880.00	1909.80
GSM	28.13	28.25	28.41	28.26	28.57	28.58
GPRS (GMSK, 1 TX slot)	25.74	25.14	25.73	27.18	27.91	27.61
GPRS (GMSK, 2 TX slot)	24.85	24.27	24.53	26.39	26.10	26.57
GPRS (GMSK, 3 TX slot)	22.14	22.24	22.73	25.26	25.29	26.00
GPRS (GMSK, 4 TX slot)	20.36	21.01	20.65	24.41	23.18	23.18
EGPRS(GMSK, 1 TX slot)	16.85	18.64	19.45	24.30	24.78	24.81
EGPRS(GMSK, 2 TX slot)	16.94	16.45	17.01	23.28	23.89	23.56
EGPRS(GMSK, 3 TX slot)	15.21	15.41	15.85	22.32	22.05	22.70
EGPRS(GMSK, 4 TX slot)	13.64	13.74	13.76	20.70	20.67	20.18



Average Conducted Power(dBm)						
Band	WCDMA Band 2			WCDMA Band 5		
Frequency	1852.4	1880.0	1907.6	826.4	836.6	846.6
RMC 12.2Kbps	21.35	21.21	21.41	21.46	21.52	21.21
HSDPA Subtest-1	20.04	20.36	20.23	20.67	20.73	20.73
HSDPA Subtest-2	19.48	19.85	19.52	20.45	20.52	20.55
HSDPA Subtest-3	18.57	18.44	18.57	19.07	19.35	19.42
HSDPA Subtest-4	18.55	18.82	18.65	19.42	19.22	19.37
HSUPA Subtest-1	18.52	20.03	20.01	19.83	20.53	20.52
HSUPA Subtest-2	20.05	20.85	20.08	20.61	20.85	20.66
HSUPA Subtest-3	18.64	19.13	18.85	18.86	19.45	19.55
HSUPA Subtest-4	20.85	20.28	20.63	20.63	20.72	20.74
HSUPA Subtest-5	18.44	19.65	19.55	19.08	20.26	20.41



Average Conducted Power						
Band	LTE Band 2			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	18607/1850.7	18900/1880	19193/1909.3
1.4MHz	QPSK	1	0.00	22.86	22.81	22.90
		1	3.00	22.09	22.38	22.39
		1	5.00	22.13	22.46	22.37
		3	0.00	22.07	22.41	22.37
		3	2.00	22.08	22.43	22.34
		3	3.00	22.08	22.46	22.31
		6	0.00	21.09	21.43	21.43
	16QAM	1	0.00	22.18	22.16	22.96
		1	3.00	22.06	22.53	22.29
		1	5.00	22.16	22.51	22.75
		3	0.00	22.26	22.39	22.57
		3	2.00	22.30	22.41	22.54
		3	3.00	22.29	22.08	22.17
		6	0.00	21.35	20.90	21.11
Bandwidth	Modulation	RB size	RB offset	18615/1851.5	18900/1880	19185/1908.5
3MHz	QPSK	1	0.00	22.26	22.41	22.40
		1	7.00	22.29	22.60	22.53
		1	14.00	22.21	22.53	22.28
		8	0.00	22.34	22.52	22.48
		8	4.00	22.31	22.57	22.52
		8	7.00	22.30	22.59	22.47
		15	0.00	21.26	21.53	21.52
	16QAM	1	0.00	22.56	22.44	22.63
		1	7.00	22.66	22.62	22.09
		1	14.00	22.60	22.57	22.57
		8	0.00	22.46	22.54	22.41
		8	4.00	22.53	22.60	22.47
		8	7.00	22.54	22.22	22.10
		15	0.00	22.33	22.01	22.00
Bandwidth	Modulation	RB size	RB offset	18625/1852.5	18900/1880	19175/1907.5
5MHz	QPSK	1	0.00	22.38	22.37	22.42
		1	12.00	22.43	22.61	22.51
		1	24.00	22.23	22.66	22.43
		12	0.00	22.28	22.37	22.28
		12	6.00	22.34	22.54	22.43
		12	13.00	22.23	22.50	22.42
		25	0.00	21.21	21.44	21.33
	16QAM	1	0.00	22.72	22.60	22.47
		1	12.00	22.72	22.73	22.65



		1	24.00	22.60	22.11	22.59
		12	0.00	22.27	22.58	22.48
		12	6.00	22.40	22.16	22.55
		12	13.00	22.24	22.54	22.38
		25	0.00	21.40	21.36	21.19

Average Conducted Power						
Band	LTE Band 2			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	18650/1855	18900/1880	19150/1905
10MHz	QPSK	1	0.00	22.24	22.06	22.74
		1	24.00	22.06	22.41	22.20
		1	49.00	22.67	22.46	22.29
		25	0.00	21.97	22.03	22.66
		25	12.00	22.26	22.32	22.11
		25	25.00	22.71	22.27	22.08
		50	0.00	21.29	21.09	21.90
	16QAM	1	0.00	22.42	22.17	22.05
		1	24.00	22.31	22.47	22.52
		1	49.00	21.97	22.55	22.56
		25	0.00	21.71	21.77	22.4
		25	12.00	22	22.06	21.85
		25	25.00	22.45	22.01	21.82
		50	0.00	21.03	20.83	21.64
Bandwidth	Modulation	RB size	RB offset	18675/1857.5	18900/1880	19125/1902.5
15MHz	QPSK	1	0.00	22.18	22.04	22.12
		1	37.00	22.57	22.22	22.15
		1	74.00	22.52	22.63	22.41
		36	0.00	22.09	22.23	22.20
		36	18.00	21.92	22.52	22.53
		36	38.00	22.65	22.58	22.21
		75	0.00	21.72	21.31	21.15
	16QAM	1	0.00	22.44	22.21	22.24
		1	38.00	22.14	22.08	22.26
		1	74.00	22.09	22.13	22.62
		36	0.00	21.83	21.97	21.94
		36	18.00	21.66	22.26	22.27
		36	38.00	22.39	22.32	21.95
		75	0.00	21.46	21.05	20.89
Bandwidth	Modulation	RB size	RB offset	18700/1860	18900/1880	19100/1900
20MHz	QPSK	1	0.00	22.23	22.69	22.57
		1	49.00	22.63	22.54	22.01
		1	99.00	22.53	22.28	22.28
		50	0.00	22.62	22.54	22.61



		50	25.00	21.80	22.34	22.60
		50	50.00	22.39	22.38	22.03
		100	0.00	21.73	21.94	21.70
	16QAM	1	0.00	22.24	21.84	22.38
		1	49.00	22.66	22.65	22.67
		1	99.00	22.62	22.58	22.32
		50	0.00	22.36	22.28	22.35
		50	25.00	21.54	22.08	22.34
		50	50.00	22.13	22.12	21.77
		100	0.00	21.47	21.68	21.44

Note: Measurement Uncertainty: ± 2.6 dB.

Average Conducted Power						
Band	LTE Band 4			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	19957/1710.7	20175/1732.5	20393/1754.3
1.4MHz	QPSK	1	0.00	22.93	22.94	22.88
		1	3.00	22.59	22.44	22.29
		1	5.00	22.43	22.34	22.22
		3	0.00	22.52	22.15	22.23
		3	2.00	22.56	22.09	22.26
		3	3.00	22.62	22.12	22.21
		6	0.00	21.79	21.08	21.44
	16QAM	1	0.00	22.52	22.18	22.58
		1	2.00	22.71	22.23	22.01
		1	5.00	22.62	22.99	22.69
		3	0.00	22.71	22.21	22.08
		3	1.00	22.66	22.24	22.22
		3	3.00	22.58	21.77	21.84
		6	0.00	21.85	20.82	21.07
Bandwidth	Modulation	RB size	RB offset	19965/1711.5	20175/1732.5	20385/1753.5
3MHz	QPSK	1	0.00	22.76	22.73	22.07
		1	7.00	22.63	22.67	22.47
		1	14.00	22.60	22.50	22.51
		8	0.00	22.57	22.02	22.15
		8	4.00	22.61	22.03	22.18
		8	7.00	22.51	22.11	22.26
		15	0.00	21.51	21.99	21.26
	16QAM	1	0.00	22.42	22.63	22.04
		1	7.00	22.34	22.20	22.34
		1	14.00	22.32	22.74	22.17
		8	0.00	22.57	22.66	22.47
		8	4.00	22.54	22.67	22.31



		8	7.00	22.43	21.71	21.68
		15	0.00	21.48	21.86	21.28
Bandwidth	Modulation	RB size	RB offset	19975/1712.5	20175/1732.5	20375/1752.5
5MHz	QPSK	1	0.00	22.50	22.53	22.06
		1	12.00	22.71	22.68	22.03
		1	24.00	22.53	22.60	22.08
		12	0.00	22.49	22.61	22.12
		12	6.00	22.49	22.59	22.18
		12	13.00	22.50	22.68	22.24
		25	0.00	21.46	21.56	21.14
	16QAM	1	0.00	22.39	22.58	22.54
		1	12.00	22.53	22.16	22.11
		1	24.00	22.35	22.67	22.10
		12	0.00	22.43	22.07	22.88
		12	6.00	22.37	22.01	21.96
		12	13.00	22.35	22.28	21.70
		25	0.00	22.57	22.13	21.76

Average Conducted Power						
Band	LTE Band 4			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20000/1715	20175/1732.5	20350/1750
10MHz	QPSK	1	0.00	22.61	22.60	22.12
		1	24.00	22.59	22.17	22.28
		1	49.00	22.53	22.65	22.25
		25	0.00	22.35	22.52	22.55
		25	12.00	22.51	22.11	22.46
		25	25.00	22.55	22.15	22.49
		50	0.00	22.37	21.96	22.53
	16QAM	1	0.00	22.39	22.47	22.25
		1	24.00	22.32	22.71	22.22
		1	49.00	22.37	22.65	22.11
		25	0.00	22.09	22.26	22.29
		25	12.00	22.25	21.85	22.2
		25	25.00	22.29	21.89	22.23
		50	0.00	22.11	21.7	22.27
Bandwidth	Modulation	RB size	RB offset	20025/1717.5	20175/1732.5	20325/1747.5
15MHz	QPSK	1	0.00	22.50	22.55	22.43
		1	37.00	22.74	22.18	22.43
		1	74.00	22.00	22.14	22.42
		36	0.00	22.35	22.50	22.40
		36	18.00	22.42	22.56	22.35
		36	38.00	22.62	22.60	22.27
		75	0.00	22.36	22.44	22.37



	16QAM	1	0.00	22.27	22.52	22.23
		1	37.00	22.09	22.74	22.03
		1	74.00	22.39	22.54	22.44
		36	0.00	22.09	22.24	22.14
		36	18.00	22.16	22.3	22.09
		36	38.00	22.36	22.34	22.01
		75	0.00	22.1	22.18	22.11
Bandwidth	Modulation	RB size	RB offset	20050/1720	20175/1732.5	20300/1745
20MHz	QPSK	1	0.00	22.12	22.67	22.74
		1	49.00	22.21	22.12	22.75
		1	99.00	22.65	22.74	22.17
		50	0.00	22.12	22.12	22.14
		50	25.00	22.08	22.07	22.11
		50	50.00	22.51	22.54	22.00
		100	0.00	22.46	22.46	22.01
	16QAM	1	0.00	22.50	22.57	22.48
		1	49.00	22.08	22.11	22.12
		1	99.00	22.16	22.16	22.18
		50	0.00	21.86	21.86	21.88
		50	25.00	21.82	21.81	21.85
		50	50.00	22.25	22.28	21.74
		100	0.00	22.2	22.2	21.75

Note: Measurement Uncertainty: ± 2.6 dB.



Average Conducted Power						
Band	LTE Band 5			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20407/824.7	20525/836.5	20643/848.3
1.4MHz	QPSK	1	0.00	22.88	22.86	22.89
		1	3.00	22.72	22.04	22.75
		1	5.00	22.50	22.57	22.62
		3	0.00	22.54	22.75	22.54
		3	2.00	22.64	22.30	22.59
		3	3.00	22.73	22.71	22.66
		6	0.00	22.21	22.20	22.50
	16QAM	1	0.00	22.30	22.50	22.07
		1	2.00	22.70	22.54	22.42
		1	5.00	22.56	22.36	22.70
		3	0.00	22.82	22.50	22.31
		3	1.00	22.74	22.65	22.58
		3	3.00	22.75	22.23	22.35
		6	0.00	22.08	22.17	22.18
Bandwidth	Modulation	RB size	RB offset	20415/825.5	20525/836.5	20635/847.5
3MHz	QPSK	1	0.00	22.10	22.08	22.24
		1	7.00	22.50	22.42	22.24
		1	14.00	22.13	22.55	22.48
		8	0.00	22.12	22.38	22.00
		8	4.00	22.50	22.33	22.51
		8	7.00	22.19	22.49	22.46
		15	0.00	22.53	22.50	22.83
	16QAM	1	0.00	22.71	22.72	22.26
		1	8.00	22.18	22.09	22.34
		1	14.00	22.07	22.71	22.81
		8	0.00	22.78	22.14	22.62
		8	4.00	22.46	22.67	22.42
		8	7.00	22.29	22.26	22.27
		15	0.00	22.64	22.17	22.03
Bandwidth	Modulation	RB size	RB offset	20425/826.5	20525/836.5	20625/846.5
5MHz	QPSK	1	0.00	22.00	22.44	22.49
		1	12.00	22.29	22.39	22.12
		1	24.00	22.67	22.61	22.75
		12	0.00	22.55	22.00	22.35
		12	6.00	22.12	22.02	22.22
		12	13.00	22.46	22.76	22.48
		25	0.00	22.26	22.76	22.09
	16QAM	1	0.00	22.61	22.67	22.17
		1	12.00	22.04	22.36	22.39



		1	24.00	22.62	22.55	22.13
		12	0.00	22.62	22.69	22.18
		12	6.00	22.45	22.81	22.32
		12	13.00	22.68	22.42	21.92
		25	0.00	22.42	22.54	22.06

Average Conducted Power						
Band	LTE Band 5			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20450/829	20525/836.5	20600/844
10MHz	QPSK	1	0.00	22.19	22.29	22.26
		1	24.00	22.30	22.42	22.50
		1	49.00	22.10	22.37	22.60
		25	0.00	22.29	22.22	22.18
		25	12.00	22.46	22.00	22.64
		25	25.00	22.59	22.61	22.18
		50	0.00	22.13	22.21	22.38
	16QAM	1	0.00	22.02	22.17	22.68
		1	24.00	22.70	22.63	22.67
		1	49.00	22.12	22.38	22.47
		25	0.00	22.06	21.99	21.95
		25	12.00	22.23	21.77	22.41
		25	25.00	22.36	22.38	21.95
		50	0.00	21.9	21.98	22.15

Note: Measurement Uncertainty: ± 2.6 dB.



Average Conducted Power(dBm)						
Band	LTE Band 7			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20775/2502.5	21100/2535.0	21425/2567.5
5MHz	QPSK	1	0	22.43	22.42	22.40
		1	12	22.78	22.72	22.79
		1	24	22.40	22.42	22.40
		12	0	21.44	21.38	21.52
		12	6	21.55	21.43	21.51
		12	13	21.46	21.38	21.48
		25	0	21.49	21.38	21.49
	16QAM	1	0	21.50	21.41	21.68
		1	12	21.81	21.83	21.97
		1	24	21.47	21.38	21.66
		12	0	20.60	20.42	20.43
		12	6	20.71	20.46	20.42
		12	13	20.66	20.12	20.09
		25	0	20.54	20.06	20.19
Bandwidth	Modulation	RB size	RB offset	20800/2505.0	21100/2535.0	21400/2565.0
10MHz	QPSK	1	0	22.53	22.55	22.47
		1	24	22.57	22.55	22.65
		1	49	22.46	22.38	22.51
		25	0	21.39	21.51	21.61
		25	12	21.49	21.43	21.54
		25	25	21.50	21.45	21.51
		50	0	21.41	21.44	21.54
	16QAM	1	0	21.71	21.51	21.41
		1	24	21.80	21.63	21.62
		1	49	21.64	21.51	21.50
		25	0	21.16	21.28	21.38
		25	12	21.26	21.2	21.31
		25	25	21.27	21.22	21.28
		50	0	21.18	21.21	21.31



Average Conducted Power(dBm)						
Band	LTE Band 7			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	20825/2507.5	21100/2535.0	21375/2562.5
15MHz	QPSK	1	0	22.47	22.46	22.49
		1	38	22.76	22.74	22.87
		1	74	22.32	22.28	22.45
		38	0	21.50	21.74	21.64
		38	18	21.59	21.61	21.63
		38	37	21.55	21.54	21.57
		75	0	21.54	21.63	21.64
	16QAM	1	0	21.60	21.29	21.39
		1	38	21.87	21.61	21.71
		1	74	21.44	21.25	21.35
		38	0	21.27	21.51	21.41
		38	18	21.36	21.38	21.4
		38	37	21.32	21.31	21.34
		75	0	21.31	21.4	21.41
Bandwidth	Modulation	RB size	RB offset	20850/2510.0	21100/2535.0	21350/2560.0
20MHz	QPSK	1	0	22.26	22.32	22.20
		1	49	22.60	22.54	22.60
		1	99	22.21	22.14	22.27
		50	0	21.29	21.47	21.56
		50	25	21.46	21.41	21.52
		50	50	21.26	21.47	21.36
		100	0	21.34	21.46	21.49
	16QAM	1	0	21.24	21.20	21.35
		1	49	21.54	21.52	21.66
		1	99	21.06	21.19	21.34
		50	0	21.06	21.24	21.33
		50	25	21.23	21.18	21.29
		50	50	21.03	21.24	21.13
		100	0	21.11	21.23	21.26

Note: Measurement Uncertainty: ± 2.6 dB.



Average Conducted Power						
Band	LTE Band 12			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	23017/699.7	23095/707.5	23173/715.3
1.4MHz	QPSK	1	0.00	22.91	22.93	22.87
		1	3.00	22.07	22.25	22.73
		1	5.00	22.17	22.03	22.60
		3	0.00	22.65	22.31	22.48
		3	2.00	22.66	22.32	22.32
		3	3.00	22.50	22.28	22.67
		6	0.00	22.70	22.25	22.39
	16QAM	1	0.00	22.31	22.03	22.22
		1	2.00	22.35	22.49	22.01
		1	5.00	22.22	22.27	22.53
		3	0.00	22.55	22.32	21.94
		3	2.00	22.59	22.26	21.98
		3	3.00	22.52	21.94	22.29
		6	0.00	22.81	21.86	21.65
Bandwidth	Modulation	RB size	RB offset	23025/700.5	23095/707.5	23165/714.5
3MHz	QPSK	1	0.00	22.62	22.05	22.15
		1	7.00	22.51	22.14	22.43
		1	14.00	22.54	22.33	22.69
		8	0.00	22.46	22.13	22.35
		8	4.00	22.50	22.12	22.39
		8	7.00	22.53	22.22	22.29
		15	0.00	22.47	22.06	22.33
	16QAM	1	0.00	22.41	22.26	22.30
		1	7.00	22.44	22.19	22.22
		1	14.00	22.50	22.69	22.56
		8	0.00	22.55	21.98	22.00
		8	4.00	22.51	21.96	22.22
		8	7.00	22.43	21.98	22.14
		15	0.00	22.34	22.21	22.32
Bandwidth	Modulation	RB size	RB offset	26035/701.5	23095/707.5	23155/713.5
5MHz	QPSK	1	0.00	22.36	22.39	22.03
		1	12.00	22.68	22.35	22.19
		1	24.00	22.26	22.48	22.49
		12	0.00	22.43	22.09	22.19
		12	6.00	22.51	22.22	22.02
		12	13.00	22.48	22.01	22.46
		25	0.00	22.38	22.02	22.04
	16QAM	1	0.00	22.34	22.30	22.65
		1	12.00	22.40	22.38	22.12



		1	24.00	22.19	22.40	22.21
		12	0.00	22.09	21.98	22.03
		12	6.00	22.52	22.04	21.97
		12	13.00	22.45	21.88	22.35
		25	0.00	22.43	21.68	21.61

Average Conducted Power						
Band	LTE Band 12			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	23060/714	23095/707.5	23130/711
10MHz	QPSK	1	0.00	22.60	22.22	22.14
		1	24.00	22.15	22.12	22.66
		1	49.00	22.37	22.01	22.27
		25	0.00	22.51	22.22	22.07
		25	12.00	22.42	22.28	22.12
		25	25.00	22.32	22.10	22.02
		50	0.00	22.24	22.12	22.12
	16QAM	1	0.00	22.21	22.24	22.40
		1	24.00	22.60	22.54	22.52
		1	49.00	22.11	22.61	22.08
		25	0.00	22.28	21.99	21.84
		25	12.00	22.19	22.05	21.89
		25	25.00	22.09	21.87	21.79
		50	0.00	22.01	21.89	21.89



Average Conducted Power						
Band	LTE Band 66			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	131979/1710.7	132322/1745	132665/1779.3
1.4MHz	QPSK	1	0.00	22.84	22.95	22.91
		1	3.00	22.39	22.11	22.31
		1	5.00	22.36	22.00	22.30
		3	0.00	22.29	22.05	22.34
		3	2.00	22.30	22.09	22.34
		3	3.00	22.25	22.03	22.20
		6	0.00	22.24	22.02	22.08
	16QAM	1	0.00	22.24	22.23	22.24
		1	2.00	22.32	22.28	22.24
		1	5.00	22.25	22.16	22.14
		3	0.00	22.46	22.16	22.05
		3	2.00	22.49	22.20	22.05
		3	3.00	22.44	21.82	21.67
		6	0.00	22.53	21.94	21.97
Bandwidth	Modulation	RB size	RB offset	131987/1711.5	132322/1745	132657/1778.5
3MHz	QPSK	1	0.00	22.25	22.04	22.22
		1	7.00	22.31	22.07	22.29
		1	14.00	22.28	22.32	22.10
		8	0.00	22.20	22.06	22.00
		8	4.00	22.24	22.05	22.20
		8	7.00	22.23	22.39	22.18
		15	0.00	22.21	22.23	22.39
	16QAM	1	0.00	22.46	22.21	22.52
		1	7.00	22.56	22.28	22.33
		1	14.00	22.53	22.12	22.10
		8	0.00	22.41	22.15	22.03
		8	4.00	22.45	22.17	21.95
		8	7.00	22.44	21.99	21.87
		15	0.00	22.33	21.76	21.72
Bandwidth	Modulation	RB size	RB offset	131997/1712.5	132322/1745	132647/1777.5
5MHz	QPSK	1	0.00	22.22	22.01	22.50
		1	12.00	22.30	22.01	22.22
		1	24.00	22.32	22.36	22.74
		12	0.00	22.21	22.06	22.29
		12	6.00	22.26	22.04	22.10
		12	13.00	22.27	22.24	22.21
		25	0.00	22.23	22.28	22.04
	16QAM	1	0.00	22.52	22.23	22.66
		1	12.00	22.68	22.31	22.36



		1	24.00	22.65	22.10	22.30
		12	0.00	22.35	22.02	22.48
		12	6.00	22.43	22.61	22.22
		12	13.00	22.42	22.46	22.21
		25	0.00	22.42	22.58	21.95

Average Conducted Power						
Band	LTE Band 66			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	132022/1715	132322/1745	132622/1775
10MHz	QPSK	1	0.00	22.48	22.38	22.16
		1	24.00	22.42	22.05	22.63
		1	49.00	22.29	22.16	22.13
		25	0.00	22.03	22.87	22.46
		25	12.00	22.29	22.34	22.28
		25	25.00	22.21	22.69	22.29
		50	0.00	22.11	22.17	22.22
	16QAM	1	0.00	22.68	22.30	22.39
		1	24.00	22.67	22.07	22.28
		1	49.00	22.19	22.19	22.39
		25	0.00	21.8	22.64	22.23
		25	12.00	22.06	22.11	22.05
		25	25.00	21.98	22.46	22.06
		50	0.00	21.88	21.94	21.99
Bandwidth	Modulation	RB size	RB offset	132047/1717.5	132322/1745	132597/1772.5
15MHz	QPSK	1	0.00	22.38	22.22	22.27
		1	37.00	22.47	22.26	22.59
		1	74.00	22.16	22.71	22.33
		36	0.00	22.01	22.74	22.54
		36	18.00	22.45	22.67	22.15
		36	38.00	22.48	22.65	22.06
		75	0.00	22.24	22.70	22.16
	16QAM	1	0.00	22.30	22.40	22.39
		1	37.00	22.18	22.50	22.22
		1	74.00	22.20	22.52	22.32
		36	0.00	21.78	22.51	22.31
		36	18.00	22.22	22.44	21.92
		36	38.00	22.25	22.42	21.83
		75	0.00	22.01	22.47	21.93
Bandwidth	Modulation	RB size	RB offset	132072/1720	132322/1745	132572/1770
20MHz	QPSK	1	0.00	22.27	22.36	22.23
		1	49.00	22.08	22.54	22.58
		1	99.00	22.11	22.73	22.38
		50	0.00	22.22	22.05	22.34



		50	25.00	22.36	22.37	22.24
		50	50.00	22.52	22.47	22.32
		100	0.00	22.37	22.44	22.14
	16QAM	1	0.00	22.28	22.39	22.50
		1	49.00	22.08	22.38	22.39
		1	99.00	22.39	22.42	22.38
		50	0.00	21.96	21.79	22.08
		50	25.00	22.1	22.11	21.98
		50	50.00	22.26	22.21	22.06
		100	0.00	22.11	22.18	21.88

Note: Measurement Uncertainty: $\pm 2.6\text{dB}$.



5.2. -26dB and 99% Occupied Bandwidth

5.2.1. Limit

According to FCC section 2.1049 and FCC part 22.99 and FCC part 24.131, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth,

5.2.2. Test Setup

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power.

5.2.3. Test Result

Pass, the table and plot please see annex 5.

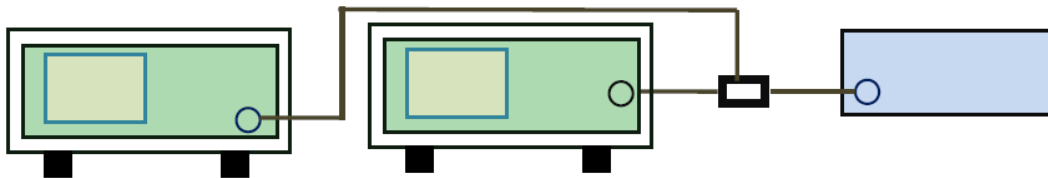


5.3. Peak to Average Ratio

5.3.1. Limit

According to FCC section 27.50(d)(5), 22.99, 24.131 the peak to average ratio(PAR) of the transmission may not exceed 13dB.

5.3.2. Test Setup



5.3.3. Test Procedure

According with KDB 971168 v03r01

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

5.3.4. Test Result

Pass, the table and plot please see annex 5.



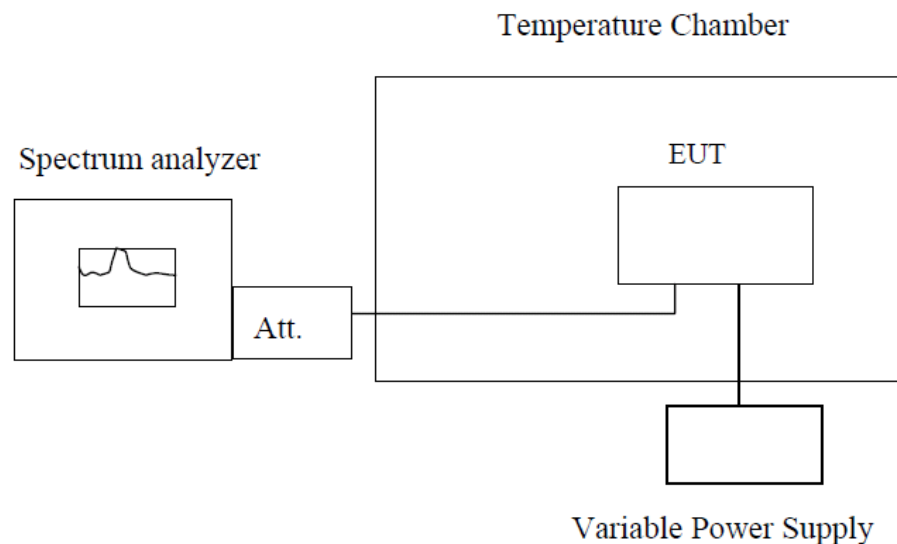
5.4. Frequency Stability

5.4.1. Limit

According to FCC section 22.355 and FCC section 24.235, FCC section 27.54 the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -40°C to $+80^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

5.4.2. Test Setup



Note : Measurement setup for testing on Antenna connector

The EUT, which is powered by the DC Power Supply directly, is located in the Temperature Chamber.

The EUT is commanded by the System Simulator (SS) to operate at the maximum output power

5.4.3. Test Result

The nominal, highest and lowest extreme voltages are separately 3.85VDC, 4.24VDC and 3.47VDC

which are specified by the applicant; the normal temperature here used is 25°C . The frequency

deviation limit of 850MHz band is $\pm 2.5\text{ppm}$, and 1900MHz is $\pm 1\text{ppm}$

For LTE mode, only test the max bandwidth.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
GSM850 Middle channel 836.0MHz	3.85	-40	68	0.0813	±2.5	PASS
	3.85	-30	85	0.1017		
	3.85	-20	46	0.0550		
	3.85	-10	58	0.0694		
	3.85	0	67	0.0801		
	3.85	10	46	0.0550		
	3.85	20	65	0.0778		
	3.85	30	84	0.1005		
	3.85	40	76	0.0909		
	3.85	50	63	0.0754		
	3.85	60	48	0.0574		
	3.85	70	55	0.0658		
	3.85	80	76	0.0909		
	4.24	25	98	0.1172		
	3.85	25	57	0.0682		
	3.47	25	69	0.0825		
EGPRS850 Middle channel 836.0MHz	3.85	-40	75	0.0897	±2.5	PASS
	3.85	-30	59	0.0706		
	3.85	-20	68	0.0813		
	3.85	-10	77	0.0921		
	3.85	0	65	0.0778		
	3.85	10	69	0.0825		
	3.85	20	58	0.0694		
	3.85	30	76	0.0909		
	3.85	40	81	0.0969		
	3.85	50	76	0.0909		
	3.85	60	95	0.1136		
	3.85	70	88	0.1053		
	3.85	80	76	0.0909		
	4.24	25	86	0.1029		
	3.85	25	87	0.1041		
	3.47	25	96	0.1148		



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
GSM1900 Middle channel 1880.0MHz	3.85	-40	89	0.0473	±2.5	PASS
	3.85	-30	75	0.0399		
	3.85	-20	55	0.0293		
	3.85	-10	69	0.0367		
	3.85	0	58	0.0309		
	3.85	10	72	0.0383		
	3.85	20	85	0.0452		
	3.85	30	87	0.0463		
	3.85	40	72	0.0383		
	3.85	50	89	0.0473		
	3.85	60	56	0.0298		
	3.85	70	75	0.0399		
	3.85	80	88	0.0468		
	4.24	25	87	0.0463		
	3.85	25	75	0.0399		
	3.47	25	96	0.0511		
EGPRS1900 Middle channel 1880.0MHz	3.85	-40	66	0.0351	±2.5	PASS
	3.85	-30	78	0.0415		
	3.85	-20	75	0.0399		
	3.85	-10	69	0.0367		
	3.85	0	85	0.0452		
	3.85	10	75	0.0399		
	3.85	20	58	0.0309		
	3.85	30	67	0.0356		
	3.85	40	72	0.0383		
	3.85	50	59	0.0314		
	3.85	60	78	0.0415		
	3.85	70	63	0.0335		
	3.85	80	87	0.0463		
	4.24	25	92	0.0489		
	3.85	25	78	0.0415		
	3.47	25	84	0.0447		



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
WCDMA Band 2 Middle channel 1880MHz	3.85	-40	76	0.0404	±2.5	PASS
	3.85	-30	86	0.0457		
	3.85	-20	75	0.0399		
	3.85	-10	56	0.0298		
	3.85	0	74	0.0394		
	3.85	10	59	0.0314		
	3.85	20	67	0.0356		
	3.85	30	72	0.0383		
	3.85	40	69	0.0367		
	3.85	50	72	0.0383		
	3.85	60	69	0.0367		
	3.85	70	78	0.0415		
	3.85	80	86	0.0457		
	4.24	25	79	0.0420		
	3.85	25	78	0.0415		
	3.47	25	96	0.0511		
WCDMA Band 5 Middle channel 836.6MHz	3.85	-40	85	0.1016	±2.5	PASS
	3.85	-30	77	0.0920		
	3.85	-20	68	0.0813		
	3.85	-10	59	0.0705		
	3.85	0	63	0.0753		
	3.85	10	58	0.0693		
	3.85	20	75	0.0896		
	3.85	30	58	0.0693		
	3.85	40	69	0.0825		
	3.85	50	78	0.0932		
	3.85	60	84	0.1004		
	3.85	70	75	0.0896		
	3.85	80	69	0.0825		
	4.24	25	85	0.1016		
	3.85	25	75	0.0896		
	3.47	25	72	0.0861		



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 2 Bandwidth 20MHz QPSK Middle channel 1880MHz	3.85	-40	72	0.0383	±1	PASS
	3.85	-30	86	0.0457		
	3.85	-20	57	0.0303		
	3.85	-10	96	0.0511		
	3.85	0	57	0.0303		
	3.85	10	78	0.0415		
	3.85	20	88	0.0468		
	3.85	30	89	0.0473		
	3.85	40	58	0.0309		
	3.85	50	42	0.0223		
	3.85	60	77	0.0410		
	3.85	70	68	0.0362		
	3.85	80	69	0.0367		
	4.24	25	74	0.0394		
	3.85	25	59	0.0314		
	3.47	25	92	0.0489		
LTE Band 2 Bandwidth 20MHz 16QAM Middle channel 1880MHz	3.85	-40	95	0.0505	±1	PASS
	3.85	-30	75	0.0399		
	3.85	-20	57	0.0303		
	3.85	-10	66	0.0351		
	3.85	0	67	0.0356		
	3.85	10	58	0.0309		
	3.85	20	72	0.0383		
	3.85	30	74	0.0394		
	3.85	40	63	0.0335		
	3.85	50	58	0.0309		
	3.85	60	74	0.0394		
	3.85	70	67	0.0356		
	3.85	80	58	0.0309		
	4.24	25	74	0.0394		
	3.85	25	75	0.0399		
	3.47	25	85	0.0452		



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 4 Bandwidth 15MHz QPSK Middle channel 1732.5MHz	3.85	-40	76	0.0439	±1	PASS
	3.85	-30	63	0.0364		
	3.85	-20	75	0.0433		
	3.85	-10	66	0.0381		
	3.85	0	61	0.0352		
	3.85	10	53	0.0306		
	3.85	20	59	0.0341		
	3.85	30	62	0.0358		
	3.85	40	37	0.0214		
	3.85	50	58	0.0335		
	3.85	60	44	0.0254		
	3.85	70	62	0.0358		
	3.85	80	59	0.0341		
	4.24	25	62	0.0358		
	3.85	25	57	0.0329		
	3.47	25	98	0.0566		
LTE Band 4 Bandwidth 15MHz 16QAM Middle channel 1732.5MHz	3.85	-40	89	0.0514	±1	PASS
	3.85	-30	72	0.0416		
	3.85	-20	62	0.0358		
	3.85	-10	74	0.0427		
	3.85	0	45	0.0260		
	3.85	10	63	0.0364		
	3.85	20	58	0.0335		
	3.85	30	62	0.0358		
	3.85	40	58	0.0335		
	3.85	50	72	0.0416		
	3.85	60	63	0.0364		
	3.85	70	74	0.0427		
	3.85	80	62	0.0358		
	4.24	25	74	0.0427		
	3.85	25	66	0.0381		
	3.47	25	84	0.0485		

Note: Measurement Uncertainty: ±20Hz.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 5 Bandwidth 10MHz QPSK Middle channel 836.5MHz	3.85	-40	84	0.1004	±2.5	PASS
	3.85	-30	58	0.0693		
	3.85	-20	73	0.0873		
	3.85	-10	59	0.0705		
	3.85	0	72	0.0861		
	3.85	10	62	0.0741		
	3.85	20	82	0.0980		
	3.85	30	77	0.0921		
	3.85	40	66	0.0789		
	3.85	50	71	0.0849		
	3.85	60	64	0.0765		
	3.85	70	58	0.0693		
	3.85	80	82	0.0980		
	4.24	25	62	0.0741		
	3.85	25	79	0.0944		
	3.47	25	87	0.1040		
LTE Band 5 Bandwidth 10MHz 16QAM Middle channel 836.5MHz	3.85	-40	98	0.1172	±2.5	PASS
	3.85	-30	75	0.0897		
	3.85	-20	72	0.0861		
	3.85	-10	63	0.0753		
	3.85	0	74	0.0885		
	3.85	10	62	0.0741		
	3.85	20	63	0.0753		
	3.85	30	58	0.0693		
	3.85	40	62	0.0741		
	3.85	50	74	0.0885		
	3.85	60	59	0.0705		
	3.85	70	62	0.0741		
	3.85	80	64	0.0765		
	4.24	25	77	0.0921		
	3.85	25	58	0.0693		
	3.47	25	79	0.0944		

Note: Measurement Uncertainty: ±20Hz.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 7 Bandwidth 20MHz QPSK Middle channel 2535.0MHz	3.85	-40	85	0.0335	±2.5	PASS
	3.85	-30	58	0.0229		
	3.85	-20	65	0.0256		
	3.85	-10	59	0.0233		
	3.85	0	72	0.0284		
	3.85	10	64	0.0252		
	3.85	20	72	0.0284		
	3.85	30	58	0.0229		
	3.85	40	61	0.0241		
	3.85	50	68	0.0268		
	3.85	60	74	0.0292		
	3.85	70	58	0.0229		
	3.85	80	55	0.0217		
	4.24	25	71	0.0280		
	3.85	25	59	0.0233		
	3.47	25	92	0.0363		
LTE Band 7 Bandwidth 20MHz 16QAM Middle channel 2535.0MHz	3.85	-40	97	0.0383	±2.5	PASS
	3.85	-30	53	0.0209		
	3.85	-20	69	0.0272		
	3.85	-10	74	0.0292		
	3.85	0	59	0.0233		
	3.85	10	63	0.0249		
	3.85	20	58	0.0229		
	3.85	30	61	0.0241		
	3.85	40	58	0.0229		
	3.85	50	71	0.0280		
	3.85	60	59	0.0233		
	3.85	70	74	0.0292		
	3.85	80	58	0.0229		
	4.24	25	82	0.0323		
	3.85	25	87	0.0343		
	3.47	25	86	0.0339		

Note: Measurement Uncertainty: ±20Hz.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit ppm	
LTE Band 12 Bandwidth 10MHz QPSK Middle channel 707.5MHz	3.85	-40	81	0.1145	whole band	PASS
	3.85	-30	76	0.1074		
	3.85	-20	69	0.0975		
	3.85	-10	59	0.0834		
	3.85	0	47	0.0664		
	3.85	10	62	0.0876		
	3.85	20	58	0.0820		
	3.85	30	69	0.0975		
	3.85	40	72	0.1018		
	3.85	50	63	0.0890		
	3.85	60	81	0.1145		
	3.85	70	67	0.0947		
	3.85	80	58	0.0820		
	4.24	25	66	0.0933		
	3.85	25	74	0.1046		
LTE Band 12 Bandwidth 10MHz 16QAM Middle channel 707.5MHz	3.47	25	97	0.1371	whole band	PASS
	3.85	-40	96	0.1357		
	3.85	-30	58	0.0820		
	3.85	-20	62	0.0876		
	3.85	-10	71	0.1004		
	3.85	0	58	0.0820		
	3.85	10	63	0.0890		
	3.85	20	58	0.0820		
	3.85	30	72	0.1018		
	3.85	40	68	0.0961		
	3.85	50	62	0.0876		
	3.85	60	74	0.1046		
	3.85	70	58	0.0820		
	3.85	80	76	0.1074		
	4.24	25	62	0.0876		
	3.85	25	81	0.1145		
	3.47	25	89	0.1258		

Note: Measurement Uncertainty: $\pm 20\text{Hz}$.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 66 Bandwidth 20MHz QPSK Middle channel 1745MHz	3.85	-40	87	0.0499	±1	PASS
	3.85	-30	68	0.0390		
	3.85	-20	72	0.0413		
	3.85	-10	58	0.0332		
	3.85	0	69	0.0395		
	3.85	10	85	0.0487		
	3.85	20	71	0.0407		
	3.85	30	63	0.0361		
	3.85	40	58	0.0332		
	3.85	50	71	0.0407		
	3.85	60	81	0.0464		
	3.85	70	68	0.0390		
	3.85	80	74	0.0424		
	4.24	25	75	0.0430		
	3.85	25	81	0.0464		
	3.47	25	96	0.0550		
LTE Band 66 Bandwidth 20MHz 16QAM Middle channel 1745MHz	3.85	-40	92	0.0527	±1	PASS
	3.85	-30	75	0.0430		
	3.85	-20	69	0.0395		
	3.85	-10	78	0.0447		
	3.85	0	66	0.0378		
	3.85	10	72	0.0413		
	3.85	20	61	0.0350		
	3.85	30	67	0.0384		
	3.85	40	59	0.0338		
	3.85	50	72	0.0413		
	3.85	60	90	0.0516		
	3.85	70	78	0.0447		
	3.85	80	66	0.0378		
	4.24	25	78	0.0447		
	3.85	25	81	0.0464		
	3.47	25	86	0.0493		

Note: Measurement Uncertainty: ±20Hz.

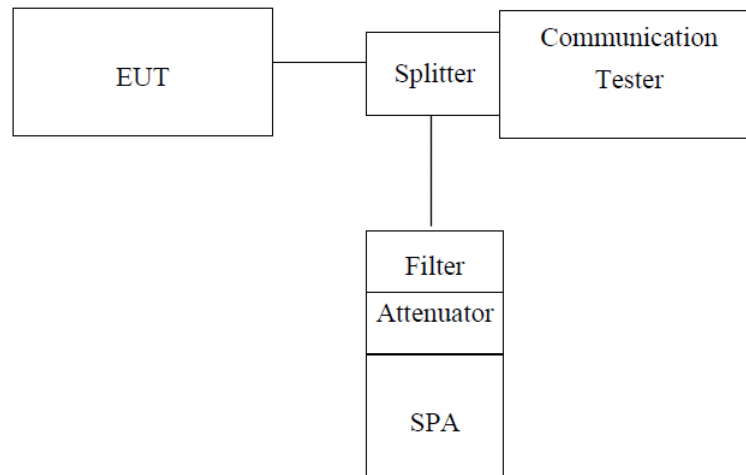


5.5. Conducted Spurious Emissions

5.5.1. Limit

According to FCC section 22.917(a) and FCC section 24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10*\log(P)$ dB. This calculated to be -13dBm.

5.5.2. Test Setup



Note: Measurement setup for testing on Antenna connector

5.5.3. Measurement Procedure

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

For the out of band See the following provisions:

22.917,24,238,27,53(g), 27.53(h)(3) &25.53(m)(6).

Limit = -13dBm

5.5.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

For LTE mode, the plot only show the min and max bandwidth's data.

Pass, the table and plot please see annex 5.

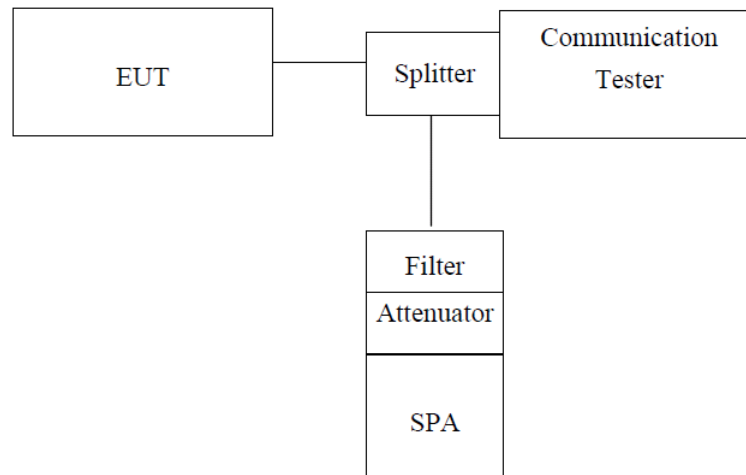


5.6. Conducted Out of Band Emissions

5.6.1. Limit

According to FCC section 22.917(b) and FCC section 24.238(b), 27.53(g)(h) in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth (26dB emission bandwidth) of the fundamental emission of the transmitter may be employed.

5.6.2. Test Setup



Note: Measurement setup for testing on Antenna connector

5.6.3. Measurement Procedure

The EUT, which is powered by the adapter, is coupled to the Spectrum Analyzer and the System Simulator with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the System Simulator to operate at the maximum output power i.e. Power Control Level (PCL) = 5 and Power Class = 4. A call is established between the EUT and the System Simulator.

For the out of band See the following provisions:

22.917,24,238,27,53(g), 27.53(h)(3) &25.53(m)(6).

5.6.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the out of band emissions.

Pass, the table and plot please see annex 5.



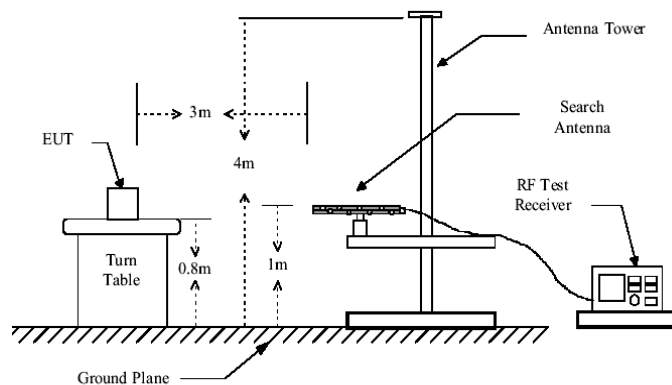
5.7. Transmitter Radiated Power (EIRP/ERP)

5.7.1. Limit

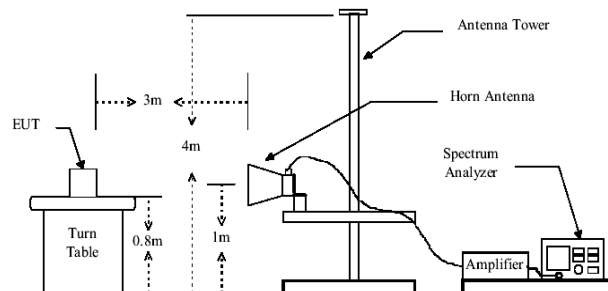
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, FCC section 27.50 the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

5.7.2. Test Setup

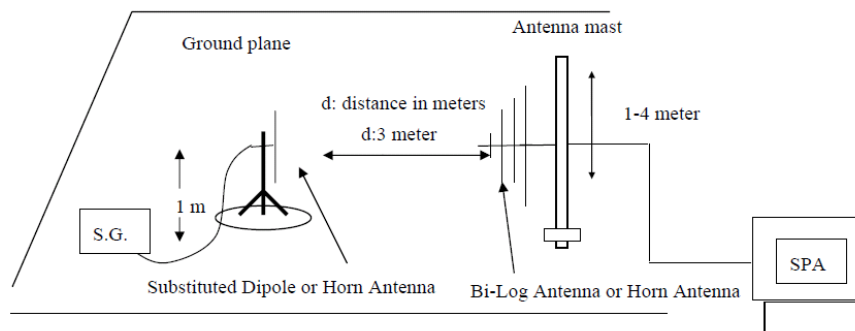
Below 1GHz



Above 1GHz



Substituted method:



5.7.3. Measurement Procedure

The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. all test in Full-Anechoic Chamber.



During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated as follows:

EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$$

For the 2 3G worst-case mode, the data show only the worst results, with other results being very low and thus omitted from the report.

5.7.4. Test Result

Pass, the table and plot please see annex.

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
GSM 850	Lowest	V	5.79	19.35	2.54	22.6	38.45	Pass
		H	5.98	19.35	2.54	22.79		
	Middle	V	5.94	19.51	2.62	22.83	38.45	Pass
		H	6.18	19.51	2.62	23.07		
	Highest	V	5.59	19.96	2.69	22.86	38.45	Pass
		H	5.95	19.96	2.69	23.22		
EGPRS 850	Lowest	V	4.99	18.55	1.74	21.8	38.45	Pass
		H	5.18	18.55	1.74	21.99		
	Middle	V	5.14	18.71	1.82	22.03	38.45	Pass
		H	5.38	18.71	1.82	22.27		
	Highest	V	4.79	19.16	1.89	22.06	38.45	Pass
		H	5.15	19.16	1.89	22.42		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP	Limit (dBm)	Result
						(dBm)		
GSM1900	Lowest	V	4.94	19.35	2.54	21.75	33	Pass
		H	5.29	19.35	2.54	22.1		
	Middle	V	5.59	19.51	2.62	22.48	33	Pass
		H	5.17	19.51	2.62	22.06		
	Highest	V	5.09	19.96	2.69	22.36	33	Pass
		H	5.17	19.96	2.69	22.44		
EGPRS 1900	Lowest	V	4.27	18.68	1.87	21.08	33	Pass
		H	4.62	18.68	1.87	21.43		
	Middle	V	4.92	18.84	1.95	21.81	33	Pass
		H	4.5	18.84	1.95	21.39		
	Highest	V	4.42	19.29	2.02	21.69	33	Pass
		H	4.5	19.29	2.02	21.77		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
WCDMA Band 2	Lowest	V	3.71	15.68	1.65	17.74	33.00	Pass
		H	3.48	15.68	1.65	17.51		
	Middle	V	3.94	15.7	1.67	17.97	33.00	Pass
		H	3.12	15.7	1.67	17.15		
	Highest	V	3.35	15.7	1.71	17.34	33.00	Pass
		H	3.35	15.7	1.71	17.34		

EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	ERP (dBm)	Limit (dBm)	Result
WCDMA Band 5	Lowest	V	3.8	15.68	1.65	17.83	38.45	Pass
		H	3.91	15.68	1.65	17.94		
	Middle	V	3.96	15.7	1.67	17.99	38.45	Pass
		H	4.19	15.7	1.67	18.22		
	Highest	V	3.8	15.7	1.71	17.79	38.45	Pass
		H	3.83	15.7	1.71	17.82		



Radiated Power (EIRP) for Band 2									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	1/#Mid	1850.7	-5.66	3.76	28.24	18.82	76.208	Horizontal	Pass
		1880	-5.55	3.91	28.22	18.76	75.162	Horizontal	Pass
		1909.3	-5.48	3.93	28.20	18.79	75.683	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	1851.5	-5.71	3.77	28.23	18.75	74.989	Horizontal	Pass
		1880	-5.56	3.91	28.24	18.77	75.336	Horizontal	Pass
		1908.5	-5.48	3.94	28.25	18.83	76.384	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	1852.5	-5.81	3.77	28.31	18.73	74.645	Horizontal	Pass
		1880	-5.53	3.91	28.22	18.78	75.509	Horizontal	Pass
		1907.5	-5.48	3.94	28.20	18.78	75.509	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	1855	-5.75	3.79	28.33	18.79	75.683	Horizontal	Pass
		1880	-5.47	3.95	28.22	18.80	75.858	Horizontal	Pass
		1905	-5.39	3.97	28.19	18.83	76.384	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	1857.5	-5.66	3.79	28.34	18.89	77.446	Horizontal	Pass
		1880	-5.53	3.95	28.22	18.74	74.817	Horizontal	Pass
		1902.5	-5.38	3.97	28.18	18.83	76.384	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	1860	-5.70	3.81	28.35	18.84	76.560	Horizontal	Pass
		1880	-5.53	3.96	28.22	18.73	74.645	Horizontal	Pass
		1900	-5.31	4.00	28.16	18.85	76.736	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	1850.7	-5.72	3.76	28.24	18.76	75.162	Vertical	Pass
		1880	-5.50	3.91	28.22	18.81	76.033	Vertical	Pass
		1909.3	-5.52	3.93	28.20	18.75	74.989	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	1851.5	-5.63	3.77	28.23	18.83	76.384	Vertical	Pass
		1880	-5.55	3.91	28.24	18.78	75.509	Vertical	Pass
		1908.5	-5.45	3.94	28.25	18.86	76.913	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	1852.5	-5.72	3.77	28.31	18.82	76.208	Vertical	Pass
		1880	-5.54	3.91	28.22	18.77	75.336	Vertical	Pass
		1907.5	-5.39	3.94	28.20	18.87	77.090	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	1855	-5.75	3.79	28.33	18.79	75.683	Vertical	Pass
		1880	-5.46	3.95	28.22	18.81	76.033	Vertical	Pass
		1905	-5.43	3.97	28.19	18.79	75.683	Vertical	Pass
15.0MHz Band QPSK	1/#Mid	1857.5	-5.78	3.79	28.34	18.77	75.336	Vertical	Pass
		1880	-5.45	3.95	28.22	18.82	76.208	Vertical	Pass
		1902.5	-5.35	3.97	28.18	18.86	76.913	Vertical	Pass
20.0MHz Band QPSK	1/#Mid	1860	-5.63	3.81	28.35	18.91	77.804	Vertical	Pass
		1880	-5.33	3.96	28.22	18.93	78.163	Vertical	Pass
		1900	-5.25	4.00	28.16	18.91	77.804	Vertical	Pass



Radiated Power (EIRP) for Band 2									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band 16 QAM	1/#Mid	1850.7	-6.71	3.76	28.24	17.77	59.841	Horizontal	Pass
		1880	-6.50	3.91	28.22	17.81	60.395	Horizontal	Pass
		1909.3	-6.51	3.93	28.20	17.76	59.704	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	1851.5	-6.60	3.77	28.23	17.86	61.094	Horizontal	Pass
		1880	-6.46	3.91	28.24	17.87	61.235	Horizontal	Pass
		1908.5	-6.41	3.94	28.25	17.90	61.660	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	1852.5	-6.67	3.77	28.31	17.87	61.235	Horizontal	Pass
		1880	-6.47	3.91	28.22	17.84	60.814	Horizontal	Pass
		1907.5	-6.51	3.94	28.20	17.75	59.566	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	1855	-6.67	3.79	28.33	17.87	61.235	Horizontal	Pass
		1880	-6.46	3.95	28.22	17.81	60.395	Horizontal	Pass
		1905	-6.37	3.97	28.19	17.85	60.954	Horizontal	Pass
15.0MHz Band 16 QAM	1/#Mid	1857.5	-6.76	3.79	28.34	17.79	60.117	Horizontal	Pass
		1880	-6.51	3.95	28.22	17.76	59.704	Horizontal	Pass
		1902.5	-6.42	3.97	28.18	17.79	60.117	Horizontal	Pass
20.0MHz Band 16 QAM	1/#Mid	1860	-6.72	3.81	28.35	17.82	60.534	Horizontal	Pass
		1880	-6.42	3.96	28.22	17.84	60.814	Horizontal	Pass
		1900	-6.26	4.00	28.16	17.90	61.660	Horizontal	Pass
1.4MHz Band 16 QAM	1/#Mid	1850.7	-6.63	3.76	28.24	17.85	60.954	Vertical	Pass
		1880	-6.53	3.91	28.22	17.78	59.979	Vertical	Pass
		1909.3	-6.52	3.93	28.20	17.75	59.566	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	1851.5	-6.56	3.77	28.23	17.90	61.660	Vertical	Pass
		1880	-6.52	3.91	28.24	17.81	60.395	Vertical	Pass
		1908.5	-6.51	3.94	28.25	17.80	60.256	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	1852.5	-6.67	3.77	28.31	17.87	61.235	Vertical	Pass
		1880	-6.57	3.91	28.22	17.74	59.429	Vertical	Pass
		1907.5	-6.40	3.94	28.20	17.86	61.094	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	1855	-6.74	3.79	28.33	17.80	60.256	Vertical	Pass
		1880	-6.46	3.95	28.22	17.81	60.395	Vertical	Pass
		1905	-6.41	3.97	28.19	17.81	60.395	Vertical	Pass
15.0MHz Band 16 QAM	1/#Mid	1857.5	-6.76	3.79	28.34	17.79	60.117	Vertical	Pass
		1880	-6.45	3.95	28.22	17.82	60.534	Vertical	Pass
		1902.5	-6.43	3.97	28.18	17.78	59.979	Vertical	Pass
20.0MHz Band 16 QAM	1/#Mid	1860	-6.64	3.81	28.35	17.90	61.660	Vertical	Pass
		1880	-6.34	3.96	28.22	17.92	61.944	Vertical	Pass
		1900	-6.21	4.00	28.16	17.95	62.373	Vertical	Pass



Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	1/#Mid	1710.7	-3.89	3.12	27.58	20.57	114.025	Horizontal	Pass
		1732.5	-3.76	3.27	27.61	20.58	114.288	Horizontal	Pass
		1754.3	-3.67	3.29	27.63	20.67	116.681	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-3.85	3.13	27.61	20.63	115.611	Horizontal	Pass
		1732.5	-3.78	3.27	27.61	20.56	113.763	Horizontal	Pass
		1753.5	-3.63	3.30	27.62	20.69	117.220	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-3.82	3.13	27.63	20.68	116.950	Horizontal	Pass
		1732.5	-3.74	3.27	27.61	20.60	114.815	Horizontal	Pass
		1752.5	-3.75	3.30	27.60	20.55	113.501	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	1715	-3.94	3.15	27.64	20.55	113.501	Horizontal	Pass
		1732.5	-3.68	3.31	27.61	20.62	115.345	Horizontal	Pass
		1750	-3.60	3.33	27.59	20.66	116.413	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-3.96	3.15	27.65	20.54	113.240	Horizontal	Pass
		1732.5	-3.66	3.31	27.61	20.64	115.878	Horizontal	Pass
		1747.5	-3.69	3.33	27.57	20.55	113.501	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	1720	-3.95	3.17	27.66	20.54	113.240	Horizontal	Pass
		1732.5	-3.69	3.32	27.61	20.60	114.815	Horizontal	Pass
		1745	-3.53	3.36	27.56	20.67	116.681	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	1710.7	-3.79	3.12	27.58	20.67	116.681	Vertical	Pass
		1732.5	-3.69	3.27	27.61	20.65	116.145	Vertical	Pass
		1754.3	-3.66	3.29	27.63	20.68	116.950	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-3.79	3.13	27.61	20.69	117.220	Vertical	Pass
		1732.5	-3.78	3.27	27.61	20.56	113.763	Vertical	Pass
		1753.5	-3.63	3.30	27.62	20.69	117.220	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-3.97	3.13	27.63	20.53	112.980	Vertical	Pass
		1732.5	-3.67	3.27	27.61	20.67	116.681	Vertical	Pass
		1752.5	-3.60	3.30	27.60	20.70	117.490	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	1715	-3.92	3.15	27.64	20.57	114.025	Vertical	Pass
		1732.5	-3.72	3.31	27.61	20.58	114.288	Vertical	Pass
		1750	-3.70	3.33	27.59	20.56	113.763	Vertical	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-3.82	3.15	27.65	20.68	116.950	Vertical	Pass
		1732.5	-3.68	3.31	27.61	20.62	115.345	Vertical	Pass
		1747.5	-3.56	3.33	27.57	20.68	116.950	Vertical	Pass
20.0MHz Band QPSK	1/#Mid	1720	-3.75	3.17	27.66	20.74	118.577	Vertical	Pass
		1732.5	-3.55	3.32	27.61	20.74	118.577	Vertical	Pass
		1745	-3.47	3.36	27.56	20.73	118.304	Vertical	Pass



Radiated Power (EIRP) for Band 4									
Mode	RB/RB SIZE	Frequency	Result						Conclution
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band 16 QAM	1/#Mid	1710.7	-4.37	3.12	27.58	20.09	102.094	Horizontal	Pass
		1732.5	-4.37	3.27	27.61	19.97	99.312	Horizontal	Pass
		1754.3	-4.37	3.29	27.63	19.97	99.312	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-4.41	3.13	27.61	20.07	101.625	Horizontal	Pass
		1732.5	-4.39	3.27	27.61	19.95	98.855	Horizontal	Pass
		1753.5	-4.31	3.30	27.62	20.01	100.231	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-4.43	3.13	27.63	20.07	101.625	Horizontal	Pass
		1732.5	-4.40	3.27	27.61	19.94	98.628	Horizontal	Pass
		1752.5	-4.31	3.30	27.60	19.99	99.770	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	1715	-4.43	3.15	27.64	20.06	101.391	Horizontal	Pass
		1732.5	-4.30	3.31	27.61	20.00	100.000	Horizontal	Pass
		1750	-4.24	3.33	27.59	20.02	100.462	Horizontal	Pass
15.0MHz Band 16 QAM	1/#Mid	1717.5	-4.53	3.15	27.65	19.97	99.312	Horizontal	Pass
		1732.5	-4.26	3.31	27.61	20.04	100.925	Horizontal	Pass
		1747.5	-4.14	3.33	27.57	20.10	102.329	Horizontal	Pass
20.0MHz Band 16 QAM	1/#Mid	1720	-4.44	3.17	27.66	20.05	101.158	Horizontal	Pass
		1732.5	-4.21	3.32	27.61	20.08	101.859	Horizontal	Pass
		1745	-4.27	3.36	27.56	19.93	98.401	Horizontal	Pass
1.4MHz Band 16 QAM	1/#Mid	1710.7	-4.41	3.12	27.58	20.05	101.158	Vertical	Pass
		1732.5	-4.27	3.27	27.61	20.07	101.625	Vertical	Pass
		1754.3	-4.26	3.29	27.63	20.08	101.859	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-4.44	3.13	27.61	20.04	100.925	Vertical	Pass
		1732.5	-4.25	3.27	27.61	20.09	102.094	Vertical	Pass
		1753.5	-4.24	3.30	27.62	20.08	101.859	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-4.54	3.13	27.63	19.96	99.083	Vertical	Pass
		1732.5	-4.36	3.27	27.61	19.98	99.541	Vertical	Pass
		1752.5	-4.33	3.30	27.60	19.97	99.312	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	1715	-4.41	3.15	27.64	20.08	101.859	Vertical	Pass
		1732.5	-4.31	3.31	27.61	19.99	99.770	Vertical	Pass
		1750	-4.26	3.33	27.59	20.00	100.000	Vertical	Pass
15.0MHz Band 16 QAM	1/#Mid	1717.5	-4.49	3.15	27.65	20.01	100.231	Vertical	Pass
		1732.5	-4.21	3.31	27.61	20.09	102.094	Vertical	Pass
		1747.5	-4.19	3.33	27.57	20.05	101.158	Vertical	Pass
20.0MHz Band 16 QAM	1/#Mid	1720	-4.37	3.17	27.66	20.12	102.802	Vertical	Pass
		1732.5	-4.19	3.32	27.61	20.10	102.329	Vertical	Pass
		1745	-4.06	3.36	27.56	20.14	103.276	Vertical	Pass



Radiated Power (ERP) for Band 5										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Correction (dB)	Max. ERP Average (dBm)	Max. ERP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	1/#Mid	824.7	4.05	2.01	19.68	2.15	19.57	90.573	Horizontal	Pass
		836.5	3.90	2.01	19.77	2.15	19.51	89.331	Horizontal	Pass
		848.3	3.89	2.02	19.82	2.15	19.54	89.950	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	825.5	4.05	2.01	19.70	2.15	19.59	90.991	Horizontal	Pass
		836.5	3.86	2.01	19.77	2.15	19.47	88.512	Horizontal	Pass
		847.5	3.90	2.02	19.81	2.15	19.54	89.950	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	826.5	3.99	2.01	19.71	2.15	19.54	89.950	Horizontal	Pass
		836.5	3.83	2.01	19.77	2.15	19.44	87.902	Horizontal	Pass
		846.5	3.94	2.02	19.79	2.15	19.56	90.365	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	829	3.86	2.01	19.73	2.15	19.43	87.700	Horizontal	Pass
		836.5	3.86	2.01	19.77	2.15	19.47	88.512	Horizontal	Pass
		844	3.92	2.02	19.78	2.15	19.53	89.743	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	824.7	4.05	2.01	19.68	2.15	19.57	90.573	Vertical	Pass
		836.5	3.84	2.01	19.77	2.15	19.45	88.105	Vertical	Pass
		848.3	3.91	2.02	19.82	2.15	19.56	90.365	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	825.5	3.95	2.01	19.70	2.15	19.49	88.920	Vertical	Pass
		836.5	3.87	2.01	19.77	2.15	19.48	88.716	Vertical	Pass
		847.5	3.88	2.02	19.81	2.15	19.52	89.536	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	826.5	3.95	2.01	19.71	2.15	19.50	89.125	Vertical	Pass
		836.5	3.98	2.01	19.77	2.15	19.59	90.991	Vertical	Pass
		846.5	3.92	2.02	19.79	2.15	19.54	89.950	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	829	4.05	2.01	19.73	2.15	19.62	91.622	Vertical	Pass
		836.5	4.00	2.01	19.77	2.15	19.61	91.411	Vertical	Pass
		844	4.00	2.02	19.78	2.15	19.61	91.411	Vertical	Pass



Radiated Power (ERP) for Band 5										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Correction (dB)	Max. EPR Average (dBm)	Max. EPR Average (mW)	Polarization Of Max. ERP	
1.4MHz Band 16 QAM	1/#Mid	824.7	3.16	2.01	19.68	2.15	18.68	73.790	Horizontal	Pass
		836.5	3.01	2.01	19.77	2.15	18.62	72.778	Horizontal	Pass
		848.3	2.94	2.02	19.82	2.15	18.59	72.277	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	825.5	3.03	2.01	19.70	2.15	18.57	71.945	Horizontal	Pass
		836.5	3.00	2.01	19.77	2.15	18.61	72.611	Horizontal	Pass
		847.5	3.04	2.02	19.81	2.15	18.68	73.790	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	826.5	3.00	2.01	19.71	2.15	18.55	71.614	Horizontal	Pass
		836.5	3.02	2.01	19.77	2.15	18.63	72.946	Horizontal	Pass
		846.5	3.06	2.02	19.79	2.15	18.68	73.790	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	829	3.06	2.01	19.73	2.15	18.63	72.946	Horizontal	Pass
		836.5	3.06	2.01	19.77	2.15	18.67	73.621	Horizontal	Pass
		844	2.89	2.02	19.78	2.15	18.50	70.795	Horizontal	Pass
1.4MHz Band 16 QAM	1/#Mid	824.7	3.15	2.01	19.68	2.15	18.67	73.621	Vertical	Pass
		836.5	3.01	2.01	19.77	2.15	18.62	72.778	Vertical	Pass
		848.3	2.99	2.02	19.82	2.15	18.64	73.114	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	825.5	3.07	2.01	19.70	2.15	18.61	72.611	Vertical	Pass
		836.5	3.08	2.01	19.77	2.15	18.69	73.961	Vertical	Pass
		847.5	2.94	2.02	19.81	2.15	18.58	72.111	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	826.5	3.12	2.01	19.71	2.15	18.67	73.621	Vertical	Pass
		836.5	3.02	2.01	19.77	2.15	18.63	72.946	Vertical	Pass
		846.5	2.91	2.02	19.79	2.15	18.53	71.285	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	829	3.17	2.01	19.73	2.15	18.74	74.817	Vertical	Pass
		836.5	3.12	2.01	19.77	2.15	18.73	74.645	Vertical	Pass
		844	3.11	2.02	19.78	2.15	18.72	74.473	Vertical	Pass



Radiated Power (EIRP) for Band 7									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
5.0MHz Band QPSK	1/#Mid	2502.5	-2.02	4.54	27.75	21.19	131.522	Horizontal	Pass
		2535	-1.78	4.69	27.72	21.25	133.352	Horizontal	Pass
		2567.5	-1.77	4.71	27.71	21.23	132.739	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	2505	-1.99	4.55	27.76	21.22	132.434	Horizontal	Pass
		2535	-1.87	4.69	27.72	21.16	130.617	Horizontal	Pass
		2565	-1.71	4.72	27.70	21.27	133.968	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	2507.5	-2.00	4.55	27.77	21.22	132.434	Horizontal	Pass
		2535	-1.85	4.69	27.72	21.18	131.220	Horizontal	Pass
		2562.5	-1.73	4.72	27.69	21.24	133.045	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	2510	-2.05	4.57	27.78	21.16	130.617	Horizontal	Pass
		2535	-1.70	4.73	27.72	21.29	134.586	Horizontal	Pass
		2560	-1.74	4.75	27.68	21.19	131.522	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	2502.5	-2.01	4.54	27.75	21.20	131.826	Vertical	Pass
		2535	-1.88	4.69	27.72	21.15	130.317	Vertical	Pass
		2567.5	-1.76	4.71	27.71	21.24	133.045	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	2505	-1.97	4.55	27.76	21.24	133.045	Vertical	Pass
		2535	-1.79	4.69	27.72	21.24	133.045	Vertical	Pass
		2565	-1.78	4.72	27.70	21.20	131.826	Vertical	Pass
15.0MHz Band QPSK	1/#Mid	2507.5	-1.96	4.55	27.77	21.26	133.660	Vertical	Pass
		2535	-1.79	4.69	27.72	21.24	133.045	Vertical	Pass
		2562.5	-1.78	4.72	27.69	21.19	131.522	Vertical	Pass
20.0MHz Band QPSK	1/#Mid	2510	-1.89	4.57	27.78	21.32	135.519	Vertical	Pass
		2535	-1.65	4.73	27.72	21.34	136.144	Vertical	Pass
		2560	-1.58	4.75	27.68	21.35	136.458	Vertical	Pass



Radiated Power (EIRP) for Band 7									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
5.0MHz Band 16 QAM	1/#Mid	2502.5	-2.76	4.54	27.75	20.45	110.917	Horizontal	Pass
		2535	-2.45	4.69	27.72	20.58	114.288	Horizontal	Pass
		2567.5	-2.40	4.71	27.71	20.60	114.815	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	2505	-2.76	4.55	27.76	20.45	110.917	Horizontal	Pass
		2535	-2.50	4.69	27.72	20.53	112.980	Horizontal	Pass
		2565	-2.39	4.72	27.70	20.59	114.551	Horizontal	Pass
15.0MHz Band 16 QAM	1/#Mid	2507.5	-2.78	4.55	27.77	20.44	110.662	Horizontal	Pass
		2535	-2.53	4.69	27.72	20.50	112.202	Horizontal	Pass
		2562.5	-2.46	4.72	27.69	20.51	112.460	Horizontal	Pass
20.0MHz Band 16 QAM	1/#Mid	2510	-2.74	4.57	27.78	20.47	111.429	Horizontal	Pass
		2535	-2.54	4.73	27.72	20.45	110.917	Horizontal	Pass
		2560	-2.37	4.75	27.68	20.56	113.763	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	2502.5	-2.66	4.54	27.75	20.55	113.501	Vertical	Pass
		2535	-2.53	4.69	27.72	20.50	112.202	Vertical	Pass
		2567.5	-2.55	4.71	27.71	20.45	110.917	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	2505	-2.65	4.55	27.76	20.56	113.763	Vertical	Pass
		2535	-2.50	4.69	27.72	20.53	112.980	Vertical	Pass
		2565	-2.44	4.72	27.70	20.54	113.240	Vertical	Pass
15.0MHz Band 16 QAM	1/#Mid	2507.5	-2.75	4.55	27.77	20.47	111.429	Vertical	Pass
		2535	-2.44	4.69	27.72	20.59	114.551	Vertical	Pass
		2562.5	-2.49	4.72	27.69	20.48	111.686	Vertical	Pass
20.0MHz Band 16 QAM	1/#Mid	2510	-2.56	4.57	27.78	20.65	116.145	Vertical	Pass
		2535	-2.37	4.73	27.72	20.62	115.345	Vertical	Pass
		2560	-2.29	4.75	27.68	20.64	115.878	Vertical	Pass



Radiated Power (ERP) for Band 12										
Mode	RB/RB SIZE	Frequency	Result							Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Correction (dB)	Max. EPR Average (dBm)	Max. EPR Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	1/#Mid	699.7	2.94	1.91	19.21	2.15	18.09	64.417	Vertical	Pass
		707.5	2.92	1.91	19.26	2.15	18.12	64.863	Vertical	Pass
		715.3	2.88	1.93	19.34	2.15	18.14	65.163	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	700.5	3.04	1.91	19.21	2.15	18.19	65.917	Vertical	Pass
		707.5	2.91	1.91	19.26	2.15	18.11	64.714	Vertical	Pass
		714.5	2.82	1.93	19.34	2.15	18.08	64.269	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	701.5	2.85	1.91	19.23	2.15	18.02	63.387	Vertical	Pass
		707.5	2.94	1.91	19.26	2.15	18.14	65.163	Vertical	Pass
		713.5	2.86	1.92	19.33	2.15	18.12	64.863	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	704	2.90	1.91	19.25	2.15	18.09	64.417	Vertical	Pass
		707.5	2.89	1.91	19.26	2.15	18.09	64.417	Vertical	Pass
		711	2.87	1.92	19.32	2.15	18.12	64.863	Vertical	Pass
1.4MHz Band QPSK	1/#Mid	699.7	3.02	1.91	19.21	2.15	18.17	65.615	Horizontal	Pass
		707.5	2.99	1.91	19.26	2.15	18.19	65.917	Horizontal	Pass
		715.3	2.84	1.93	19.34	2.15	18.10	64.565	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	700.5	2.93	1.91	19.21	2.15	18.08	64.269	Horizontal	Pass
		707.5	2.93	1.91	19.26	2.15	18.13	65.013	Horizontal	Pass
		714.5	2.83	1.93	19.34	2.15	18.09	64.417	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	701.5	2.87	1.91	19.23	2.15	18.04	63.680	Horizontal	Pass
		707.5	2.96	1.91	19.26	2.15	18.16	65.464	Horizontal	Pass
		713.5	2.84	1.92	19.33	2.15	18.10	64.565	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	704	3.05	1.91	19.25	2.15	18.24	66.681	Horizontal	Pass
		707.5	3.01	1.91	19.26	2.15	18.21	66.222	Horizontal	Pass
		711	3.00	1.92	19.32	2.15	18.25	66.834	Horizontal	Pass



Radiated Power (ERP) for Band 12									
Mode	RB/RB SIZE	Frequency	Result						
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Correction (dB)	Max. EPR Average (dBm)	Max. EPR Average (mW)	Polarization Of Max. ERP
1.4MHz Band 16 QAM	1/#Mid	699.7	1.72	1.91	19.21	2.15	16.87	48.641	Vertical
		707.5	1.66	1.91	19.26	2.15	16.86	48.529	Vertical
		715.3	1.59	1.93	19.34	2.15	16.85	48.417	Vertical
3.0MHz Band 16 QAM	1/#Mid	700.5	1.66	1.91	19.21	2.15	16.81	47.973	Vertical
		707.5	1.65	1.91	19.26	2.15	16.85	48.417	Vertical
		714.5	1.52	1.93	19.34	2.15	16.78	47.643	Vertical
5.0MHz Band 16 QAM	1/#Mid	701.5	1.63	1.91	19.23	2.15	16.80	47.863	Vertical
		707.5	1.65	1.91	19.26	2.15	16.85	48.417	Vertical
		713.5	1.63	1.92	19.33	2.15	16.89	48.865	Vertical
10.0MHz Band 16 QAM	1/#Mid	704	1.70	1.91	19.25	2.15	16.89	48.865	Vertical
		707.5	1.66	1.91	19.26	2.15	16.86	48.529	Vertical
		711	1.63	1.92	19.32	2.15	16.88	48.753	Vertical
1.4MHz Band 16 QAM	1/#Mid	699.7	1.71	1.91	19.21	2.15	16.86	48.529	Horizontal
		707.5	1.66	1.91	19.26	2.15	16.86	48.529	Horizontal
		715.3	1.59	1.93	19.34	2.15	16.85	48.417	Horizontal
3.0MHz Band 16 QAM	1/#Mid	700.5	1.70	1.91	19.21	2.15	16.85	48.417	Horizontal
		707.5	1.70	1.91	19.26	2.15	16.90	48.978	Horizontal
		714.5	1.56	1.93	19.34	2.15	16.82	48.084	Horizontal
5.0MHz Band 16 QAM	1/#Mid	701.5	1.57	1.91	19.23	2.15	16.74	47.206	Horizontal
		707.5	1.63	1.91	19.26	2.15	16.83	48.195	Horizontal
		713.5	1.58	1.92	19.33	2.15	16.84	48.306	Horizontal
10.0MHz Band 16 QAM	1/#Mid	704	1.74	1.91	19.25	2.15	16.93	49.317	Horizontal
		707.5	1.75	1.91	19.26	2.15	16.95	49.545	Horizontal
		711	1.69	1.92	19.32	2.15	16.94	49.431	Horizontal



Radiated Power (EIRP) for Band 66									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band QPSK	1/#Mid	1710.7	-3.89	3.76	28.24	20.59	114.551	Horizontal	Pass
		1745	-3.63	3.91	28.22	20.68	116.950	Horizontal	Pass
		1779.3	-3.66	3.93	28.2	20.61	115.080	Horizontal	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-3.82	3.77	28.23	20.64	115.878	Horizontal	Pass
		1745	-3.76	3.91	28.24	20.57	114.025	Horizontal	Pass
		1778.5	-3.66	3.94	28.25	20.65	116.145	Horizontal	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-3.84	3.77	28.31	20.70	117.490	Horizontal	Pass
		1745	-3.61	3.91	28.22	20.70	117.490	Horizontal	Pass
		1777.5	-3.65	3.94	28.2	20.61	115.080	Horizontal	Pass
10.0MHz Band QPSK	1/#Mid	1715	-3.87	3.79	28.33	20.67	116.681	Horizontal	Pass
		1745	-3.60	3.95	28.22	20.67	116.681	Horizontal	Pass
		1775	-3.62	3.97	28.19	20.60	114.815	Horizontal	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-4.00	3.79	28.34	20.55	113.501	Horizontal	Pass
		1745	-3.71	3.95	28.22	20.56	113.763	Horizontal	Pass
		1772.5	-3.54	3.97	28.18	20.67	116.681	Horizontal	Pass
20.0MHz Band QPSK	1/#Mid	1720	-3.90	3.81	28.35	20.64	115.878	Horizontal	Pass
		1745	-3.67	3.96	28.22	20.59	114.551	Horizontal	Pass
		1770	-3.61	4	28.16	20.55	113.501	Horizontal	Pass
1.4MHz Band QPSK	1/#Mid	1710.7	-3.79	3.76	28.24	20.69	117.220	Vertical	Pass
		1745	-3.63	3.91	28.22	20.68	116.950	Vertical	Pass
		1779.3	-3.70	3.93	28.2	20.57	114.025	Vertical	Pass
3.0MHz Band QPSK	1/#Mid	1711.5	-3.85	3.77	28.23	20.61	115.080	Vertical	Pass
		1745	-3.77	3.91	28.24	20.56	113.763	Vertical	Pass
		1778.5	-3.66	3.94	28.25	20.65	116.145	Vertical	Pass
5.0MHz Band QPSK	1/#Mid	1712.5	-3.93	3.77	28.31	20.61	115.080	Vertical	Pass
		1745	-3.77	3.91	28.22	20.54	113.240	Vertical	Pass
		1777.5	-3.62	3.94	28.2	20.64	115.878	Vertical	Pass
10.0MHz Band QPSK	1/#Mid	1715	-3.95	3.79	28.34	20.60	114.815	Vertical	Pass
		1745	-3.67	3.95	28.22	20.60	114.815	Vertical	Pass
		1775	-3.58	3.97	28.18	20.63	115.611	Vertical	Pass
15.0MHz Band QPSK	1/#Mid	1717.5	-3.85	3.81	28.35	20.69	117.220	Vertical	Pass
		1745	-3.66	3.96	28.22	20.60	114.815	Vertical	Pass
		1772.5	-3.53	4	28.16	20.63	115.611	Vertical	Pass
20.0MHz Band QPSK	1/#Mid	1720	-3.84	3.79	28.34	20.71	117.761	Vertical	Pass
		1745	-3.56	3.95	28.22	20.71	117.761	Vertical	Pass
		1770	-3.46	3.97	28.18	20.75	118.850	Vertical	Pass



Radiated Power (EIRP) for Band 66									
Mode	RB/RB SIZE	Frequency	Result						Conclusion
			SG Level (dBm)	Cable Loss (dBm)	Factor (dB)	Max. EIRP Average (dBm)	Max. EIRP Average (mW)	Polarization Of Max. ERP	
1.4MHz Band 16 QAM	1/#Mid	1710.7	-3.79	3.76	28.24	20.69	117.220	Horizontal	Pass
		1745	-3.72	3.91	28.22	20.59	114.551	Horizontal	Pass
		1779.3	-3.61	3.93	28.2	20.66	116.413	Horizontal	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-3.88	3.77	28.23	20.58	114.288	Horizontal	Pass
		1745	-3.76	3.91	28.24	20.57	114.025	Horizontal	Pass
		1778.5	-3.72	3.94	28.25	20.59	114.551	Horizontal	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-3.86	3.77	28.31	20.68	116.950	Horizontal	Pass
		1745	-3.68	3.91	28.22	20.63	115.611	Horizontal	Pass
		1777.5	-3.64	3.94	28.2	20.62	115.345	Horizontal	Pass
10.0MHz Band 16 QAM	1/#Mid	1715	-3.99	3.79	28.33	20.55	113.501	Horizontal	Pass
		1745	-3.60	3.95	28.22	20.67	116.681	Horizontal	Pass
		1775	-3.53	3.97	28.19	20.69	117.220	Horizontal	Pass
15.0MHz Band 16 QAM	1/#Mid	1717.5	-3.90	3.79	28.34	20.65	116.145	Horizontal	Pass
		1745	-3.62	3.95	28.22	20.65	116.145	Horizontal	Pass
		1772.5	-3.59	3.97	28.18	20.62	115.345	Horizontal	Pass
20.0MHz Band 16 QAM	1/#Mid	1720	-3.98	3.81	28.35	20.56	113.763	Horizontal	Pass
		1745	-3.68	3.96	28.22	20.58	114.288	Horizontal	Pass
		1770	-3.46	4	28.16	20.70	117.490	Horizontal	Pass
1.4MHz Band 16 QAM	1/#Mid	1710.7	-3.91	3.76	28.24	20.57	114.025	Vertical	Pass
		1745	-3.73	3.91	28.22	20.58	114.288	Vertical	Pass
		1779.3	-3.62	3.93	28.2	20.65	116.145	Vertical	Pass
3.0MHz Band 16 QAM	1/#Mid	1711.5	-3.88	3.77	28.23	20.58	114.288	Vertical	Pass
		1745	-3.73	3.91	28.24	20.60	114.815	Vertical	Pass
		1778.5	-3.66	3.94	28.25	20.65	116.145	Vertical	Pass
5.0MHz Band 16 QAM	1/#Mid	1712.5	-3.92	3.77	28.31	20.62	115.345	Vertical	Pass
		1745	-3.66	3.91	28.22	20.65	116.145	Vertical	Pass
		1777.5	-3.62	3.94	28.2	20.64	115.878	Vertical	Pass
10.0MHz Band 16 QAM	1/#Mid	1715	-3.91	3.79	28.34	20.64	115.878	Vertical	Pass
		1745	-3.69	3.95	28.22	20.58	114.288	Vertical	Pass
		1775	-3.53	3.97	28.18	20.68	116.950	Vertical	Pass
15.0MHz Band 16 QAM	1/#Mid	1717.5	-3.91	3.81	28.35	20.63	115.611	Vertical	Pass
		1745	-3.56	3.96	28.22	20.70	117.490	Vertical	Pass
		1772.5	-3.59	4	28.16	20.57	114.025	Vertical	Pass
20.0MHz Band 16 QAM	1/#Mid	1720	-3.84	3.79	28.34	20.71	117.761	Vertical	Pass
		1745	-3.54	3.95	28.22	20.73	118.304	Vertical	Pass
		1770	-3.50	3.97	28.18	20.71	117.761	Vertical	Pass

Note: Only the worst-case data shall be presented.



5.8. Radiated Out of Band Emissions

5.8.1. Limit

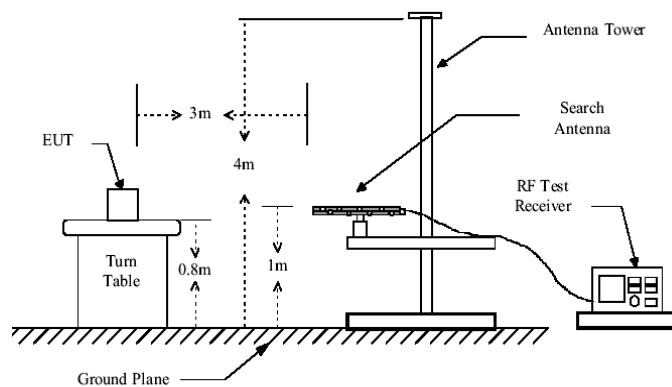
According to FCC section 22.917(a) and section 24.238(a), 27.53(g) the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power

(P) by a factor of at least $43 + 10 \cdot \log(P)$ dB. This calculated to be -13dBm.

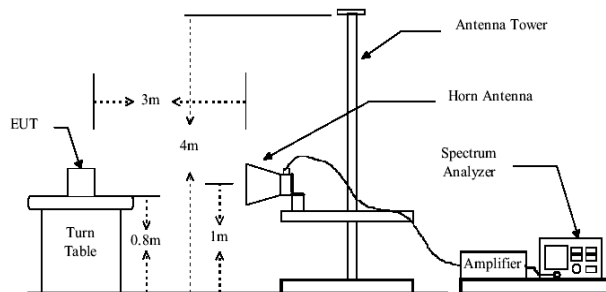
The spurious emission with frequency band 1900 according to FCC section 2.1057.

5.8.2. Test Setup

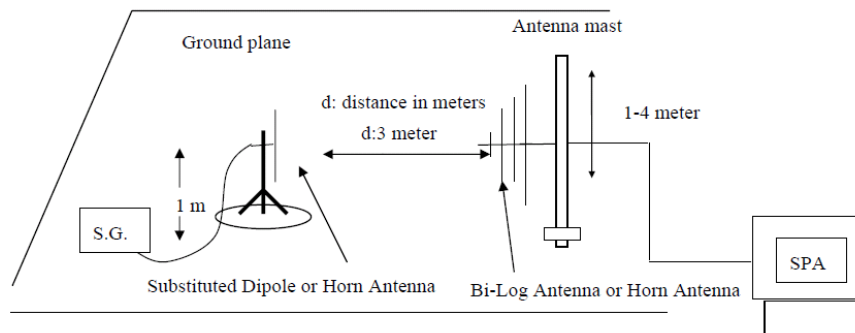
Below 1GHz



Above 1GHz



Substituted method:





5.8.3. Measurement Procedure

The EUT was placed on a non-conductive, The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. all test in Full-Anechoic Chamber.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{EIRP (Level)} = \text{S.G. output (dBm)} + \text{Antenna Gain(dBi)} - \text{Cable Loss (dB)}$$

Note: Measurement Uncertainty: ± 3.6 dB.

The data show only the worst results, and the other results are very low and not shown in the report.

5.8.4. Test Result

Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
GSM850 Lowest	86.25	Vertical	-75.08	3.35	0.38	-72.11	-13	PASS
	1648.40	Vertical	-45.69	7.76	3.75	-41.68		
	2472.60	Vertical	-47.49	9.84	4.94	-42.59		
	3296.80	Vertical	-39.27	10.21	5.32	-34.38		
	4121.00	Vertical	-42.48	11.36	6.02	-37.14		
	4945.20	Vertical	-44.69	14.52	6.68	-36.85		
GSM850 Middle	87.58	Vertical	-74.96	3.35	0.38	-71.99	-13	PASS
	1673.20	Vertical	-47.24	7.76	3.75	-43.23		
	2509.80	Vertical	-46.47	9.84	4.94	-41.57		
	3346.40	Vertical	-42.21	10.21	5.32	-37.32		
	4183.00	Vertical	-41.38	11.36	6.02	-36.04		
	5019.60	Vertical	-45.20	14.52	6.68	-37.36		
GSM850 Highest	86.94	Vertical	-75.21	3.35	0.38	-72.24	-13	PASS
	1697.60	Vertical	-46.36	7.79	3.53	-42.10		
	2546.40	Vertical	-41.22	9.88	5.02	-36.36		
	3395.20	Vertical	-37.44	10.25	5.54	-32.73		
	4244.00	Vertical	-44.19	11.38	6.16	-38.97		
	5092.80	Vertical	-46.67	14.56	6.72	-38.83		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
GSM1900 Lowest	85.69	Vertical	-75.05	3.35	0.38	-72.08	-13	PASS
	3700.40	Vertical	-45.69	7.76	3.75	-41.68		
	5550.60	Vertical	-46.48	9.84	4.94	-41.58		
	7400.80	Vertical	-39.49	10.21	5.32	-34.60		
	9251.00	Vertical	-41.96	11.36	6.02	-36.62		
	11101.20	Vertical	-44.49	14.52	6.68	-36.65		
GSM1900 Middle	87.23	Vertical	-74.20	3.35	0.38	-71.23	-13	PASS
	3760.00	Vertical	-47.24	7.76	3.75	-43.23		
	5640.00	Vertical	-46.47	9.84	4.94	-41.57		
	7520.00	Vertical	-42.10	10.21	5.32	-37.21		
	9400.00	Vertical	-41.12	11.36	6.02	-35.78		
	11280.00	Vertical	-45.25	14.52	6.68	-37.41		
GSM1900 Highest	86.47	Vertical	-74.32	3.35	0.38	-71.35	-13	PASS
	3819.60	Vertical	-46.47	7.79	3.53	-42.21		
	5729.40	Vertical	-41.11	9.88	5.02	-36.25		
	7639.20	Vertical	-37.20	10.25	5.54	-32.49		
	9549.00	Vertical	-44.47	11.38	6.16	-39.25		
	11458.80	Vertical	-46.82	14.56	6.72	-38.98		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
WCDMA BAND 2 Lowest	88.11	Vertical	-74.95	3.35	0.38	-71.98	-13	PASS
	3704.80	Vertical	-45.71	7.76	3.75	-41.70		
	5557.20	Vertical	-47.06	9.84	4.94	-42.16		
	7409.60	Vertical	-39.31	10.21	5.32	-34.42		
	9262.00	Vertical	-42.21	11.36	6.02	-36.87		
	11114.40	Vertical	-44.25	14.52	6.68	-36.41		
WCDMA BAND 2 Middle	87.34	Vertical	-75.01	3.35	0.38	-72.04	-13	PASS
	3760.00	Vertical	-47.46	7.76	3.75	-43.45		
	5640.00	Vertical	-46.69	9.84	4.94	-41.79		
	7520.00	Vertical	-42.19	10.21	5.32	-37.30		
	9400.00	Vertical	-41.70	11.36	6.02	-36.36		
	11280.00	Vertical	-45.17	14.52	6.68	-37.33		
WCDMA BAND 2 Highest	86.26	Vertical	-74.98	3.35	0.38	-72.01	-13	PASS
	3815.20	Vertical	-46.47	7.79	3.53	-42.21		
	5722.80	Vertical	-41.23	9.88	5.02	-36.37		
	7630.40	Vertical	-37.42	10.25	5.54	-32.71		
	9538.00	Vertical	-44.05	11.38	6.16	-38.83		
	11445.60	Vertical	-46.67	14.56	6.72	-38.83		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
WCDMA BAND 5 Lowest	83.87	Vertical	-75.09	3.35	0.38	-72.12	-13	PASS
	1652.80	Vertical	-45.58	7.76	3.75	-41.57		
	2479.20	Vertical	-46.50	9.84	4.94	-41.60		
	3305.60	Vertical	-39.51	10.21	5.32	-34.62		
	4132.00	Vertical	-42.03	11.36	6.02	-36.69		
	4958.40	Vertical	-44.47	14.52	6.68	-36.63		
WCDMA BAND 5 Middle	86.71	Vertical	-74.18	3.35	0.38	-71.21	-13	PASS
	1673.20	Vertical	-47.68	7.76	3.75	-43.67		
	2509.80	Vertical	-46.50	9.84	4.94	-41.60		
	3346.40	Vertical	-42.26	10.21	5.32	-37.37		
	4183.00	Vertical	-41.20	11.36	6.02	-35.86		
	5019.60	Vertical	-45.69	14.52	6.68	-37.85		
WCDMA BAND 5 Highest	87.33	Vertical	-74.27	3.35	0.38	-71.30	-13	PASS
	1693.20	Vertical	-46.49	7.79	3.53	-42.23		
	2539.80	Vertical	-41.11	9.88	5.02	-36.25		
	3386.40	Vertical	-37.22	10.25	5.54	-32.51		
	4233.00	Vertical	-44.06	11.38	6.16	-38.84		
	5079.60	Vertical	-46.78	14.56	6.72	-38.94		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 1.4MHz Lowest (1RB #0)	85.96	Vertical	-75.26	3.35	0.38	-72.29	-13	PASS
	3701.40	Vertical	-45.66	7.76	3.75	-41.65		
	5552.10	Vertical	-47.49	9.84	4.94	-42.59		
	7402.80	Vertical	-39.30	10.21	5.32	-34.41		
	9253.50	Vertical	-42.06	11.36	6.02	-36.72		
	11104.20	Vertical	-44.69	14.52	6.68	-36.85		
LTE BAND 2 1.4MHz Middle (1RB #0)	86.74	Vertical	-75.36	3.35	0.38	-72.39	-13	PASS
	3760.00	Vertical	-47.68	7.76	3.75	-43.67		
	5640.00	Vertical	-46.47	9.84	4.94	-41.57		
	7520.00	Vertical	-42.20	10.21	5.32	-37.31		
	9400.00	Vertical	-41.59	11.36	6.02	-36.25		
	11280.00	Vertical	-45.20	14.52	6.68	-37.36		
LTE BAND 2 1.4MHz Highest (1RB #0)	86.92	Vertical	-74.94	3.35	0.38	-71.97	-13	PASS
	3819.60	Vertical	-46.50	7.79	3.53	-42.24		
	5729.40	Vertical	-41.24	9.88	5.02	-36.38		
	7639.20	Vertical	-37.41	10.25	5.54	-32.70		
	9549.00	Vertical	-44.12	11.38	6.16	-38.90		
	11458.80	Vertical	-46.50	14.56	6.72	-38.66		
LTE BAND 2 3MHz Lowest (1RB #0)	88.03	Vertical	-74.94	3.35	0.38	-71.97	-13	PASS
	3700.40	Vertical	-45.69	7.76	3.75	-41.68		
	5550.60	Vertical	-46.08	9.84	4.94	-41.18		
	7400.80	Vertical	-39.11	10.21	5.32	-34.22		
	9251.00	Vertical	-41.98	11.36	6.02	-36.64		
	11101.20	Vertical	-44.52	14.52	6.68	-36.68		
LTE BAND 2 3MHz Middle (1RB #0)	87.54	Vertical	-74.37	3.35	0.38	-71.40	-13	PASS
	3760.00	Vertical	-47.24	7.76	3.75	-43.23		
	5640.00	Vertical	-46.47	9.84	4.94	-41.57		
	7520.00	Vertical	-42.37	10.21	5.32	-37.48		
	9400.00	Vertical	-41.22	11.36	6.02	-35.88		
	11280.00	Vertical	-45.58	14.52	6.68	-37.74		
LTE BAND 2 3MHz Highest (1RB #0)	86.45	Vertical	-74.10	3.35	0.38	-71.13	-13	PASS
	3819.60	Vertical	-46.48	7.79	3.53	-42.22		
	5729.40	Vertical	-41.70	9.88	5.02	-36.84		
	7639.20	Vertical	-37.23	10.25	5.54	-32.52		
	9549.00	Vertical	-44.36	11.38	6.16	-39.14		
	11458.80	Vertical	-46.80	14.56	6.72	-38.96		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 5MHz Lowest (1RB #0)	86.78	Vertical	-74.15	3.35	0.38	-71.18	-13	PASS
	3700.40	Vertical	-45.20	7.76	3.75	-41.19		
	5550.60	Vertical	-46.69	9.84	4.94	-41.79		
	7400.80	Vertical	-39.22	10.21	5.32	-34.33		
	9251.00	Vertical	-42.26	11.36	6.02	-36.92		
	11101.20	Vertical	-44.47	14.52	6.68	-36.63		
LTE BAND 2 5MHz Middle (1RB #0)	87.58	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	3760.00	Vertical	-47.47	7.76	3.75	-43.46		
	5640.00	Vertical	-46.36	9.84	4.94	-41.46		
	7520.00	Vertical	-42.21	10.21	5.32	-37.32		
	9400.00	Vertical	-41.27	11.36	6.02	-35.93		
	11280.00	Vertical	-45.69	14.52	6.68	-37.85		
LTE BAND 2 5MHz Highest (1RB #0)	86.96	Vertical	-74.10	3.35	0.38	-71.13	-13	PASS
	3819.60	Vertical	-45.99	7.79	3.53	-41.73		
	5729.40	Vertical	-41.41	9.88	5.02	-36.55		
	7639.20	Vertical	-37.50	10.25	5.54	-32.79		
	9549.00	Vertical	-44.02	11.38	6.16	-38.80		
	11458.80	Vertical	-46.10	14.56	6.72	-38.26		
LTE BAND 2 10MHz Lowest (1RB #0)	87.11	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	3700.40	Vertical	-45.05	7.76	3.75	-41.04		
	5550.60	Vertical	-46.37	9.84	4.94	-41.47		
	7400.80	Vertical	-39.30	10.21	5.32	-34.41		
	9251.00	Vertical	-42.63	11.36	6.02	-37.29		
	11101.20	Vertical	-44.37	14.52	6.68	-36.53		
LTE BAND 2 10MHz Middle (1RB #0)	87.63	Vertical	-74.19	3.35	0.38	-71.22	-13	PASS
	3760.00	Vertical	-47.68	7.76	3.75	-43.67		
	5640.00	Vertical	-46.48	9.84	4.94	-41.58		
	7520.00	Vertical	-42.31	10.21	5.32	-37.42		
	9400.00	Vertical	-41.08	11.36	6.02	-35.74		
	11280.00	Vertical	-45.37	14.52	6.68	-37.53		
LTE BAND 2 10MHz Highest (1RB #0)	85.94	Vertical	-73.88	3.35	0.38	-70.91	-13	PASS
	3819.60	Vertical	-46.37	7.79	3.53	-42.11		
	5729.40	Vertical	-41.24	9.88	5.02	-36.38		
	7639.20	Vertical	-37.39	10.25	5.54	-32.68		
	9549.00	Vertical	-44.47	11.38	6.16	-39.25		
	11458.80	Vertical	-46.62	14.56	6.72	-38.78		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 2 15MHz Lowest (1RB #0)	85.67	Vertical	-73.95	3.35	0.38	-70.98	-13	PASS
	3700.40	Vertical	-45.47	7.76	3.75	-41.46		
	5550.60	Vertical	-46.36	9.84	4.94	-41.46		
	7400.80	Vertical	-39.32	10.21	5.32	-34.43		
	9251.00	Vertical	-42.37	11.36	6.02	-37.03		
	11101.20	Vertical	-44.17	14.52	6.68	-36.33		
LTE BAND 2 15MHz Middle (1RB #0)	87.26	Vertical	-73.99	3.35	0.38	-71.02	-13	PASS
	3760.00	Vertical	-46.25	7.76	3.75	-42.24		
	5640.00	Vertical	-46.20	9.84	4.94	-41.30		
	7520.00	Vertical	-42.06	10.21	5.32	-37.17		
	9400.00	Vertical	-41.42	11.36	6.02	-36.08		
	11280.00	Vertical	-45.25	14.52	6.68	-37.41		
LTE BAND 2 15MHz Highest (1RB #0)	86.35	Vertical	-74.37	3.35	0.38	-71.40	-13	PASS
	3819.60	Vertical	-46.59	7.79	3.53	-42.33		
	5729.40	Vertical	-41.69	9.88	5.02	-36.83		
	7639.20	Vertical	-37.08	10.25	5.54	-32.37		
	9549.00	Vertical	-44.27	11.38	6.16	-39.05		
	11458.80	Vertical	-45.98	14.56	6.72	-38.14		
LTE BAND 2 20MHz Lowest (1RB #0)	86.45	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	3700.40	Vertical	-45.47	7.76	3.75	-41.46		
	5550.60	Vertical	-46.22	9.84	4.94	-41.32		
	7400.80	Vertical	-39.27	10.21	5.32	-34.38		
	9251.00	Vertical	-42.21	11.36	6.02	-36.87		
	11101.20	Vertical	-44.05	14.52	6.68	-36.21		
LTE BAND 2 20MHz Middle (1RB #0)	87.62	Vertical	-74.59	3.35	0.38	-71.62	-13	PASS
	3760.00	Vertical	-46.16	7.76	3.75	-42.15		
	5640.00	Vertical	-46.25	9.84	4.94	-41.35		
	7520.00	Vertical	-42.23	10.21	5.32	-37.34		
	9400.00	Vertical	-41.69	11.36	6.02	-36.35		
	11280.00	Vertical	-45.69	14.52	6.68	-37.85		
LTE BAND 2 20MHz Highest (1RB #0)	87.62	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	3819.60	Vertical	-46.16	7.79	3.53	-41.90		
	5729.40	Vertical	-41.27	9.88	5.02	-36.41		
	7639.20	Vertical	-37.39	10.25	5.54	-32.68		
	9549.00	Vertical	-44.20	11.38	6.16	-38.98		
	11458.80	Vertical	-46.58	14.56	6.72	-38.74		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 1.4MHz Lowest (1RB #0)	86.66	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	3421.40	Vertical	-45.16	7.76	3.75	-41.15		
	5132.10	Vertical	-46.08	9.84	4.94	-41.18		
	6842.80	Vertical	-39.38	10.21	5.32	-34.49		
	8553.50	Vertical	-42.21	11.36	6.02	-36.87		
	10264.20	Vertical	-44.38	14.52	6.68	-36.54		
LTE BAND 4 1.4MHz Middle (1RB #0)	87.33	Vertical	-73.99	3.35	0.38	-71.02	-13	PASS
	3465.00	Vertical	-47.47	7.76	3.75	-43.46		
	5197.50	Vertical	-46.09	9.84	4.94	-41.19		
	6930.00	Vertical	-42.71	10.21	5.32	-37.82		
	8662.50	Vertical	-41.07	11.36	6.02	-35.73		
	10395.00	Vertical	-45.58	14.52	6.68	-37.74		
LTE BAND 4 1.4MHz Highest (1RB #0)	86.95	Vertical	-74.37	3.35	0.38	-71.40	-13	PASS
	3508.60	Vertical	-46.36	7.79	3.53	-42.10		
	5262.90	Vertical	-41.32	9.88	5.02	-36.46		
	7017.20	Vertical	-37.28	10.25	5.54	-32.57		
	8771.50	Vertical	-44.20	11.38	6.16	-38.98		
	10525.80	Vertical	-46.62	14.56	6.72	-38.78		
LTE BAND 4 3MHz Lowest (1RB #0)	85.85	Vertical	-73.95	3.35	0.38	-70.98	-13	PASS
	3423.00	Vertical	-45.47	7.76	3.75	-41.46		
	5134.50	Vertical	-46.08	9.84	4.94	-41.18		
	6846.00	Vertical	-39.71	10.21	5.32	-34.82		
	8557.50	Vertical	-42.06	11.36	6.02	-36.72		
	10269.00	Vertical	-44.16	14.52	6.68	-36.32		
LTE BAND 4 3MHz Middle (1RB #0)	86.32	Vertical	-74.59	3.35	0.38	-71.62	-13	PASS
	3508.60	Vertical	-47.49	7.76	3.75	-43.48		
	5262.90	Vertical	-46.28	9.84	4.94	-41.38		
	7017.20	Vertical	-42.36	10.21	5.32	-37.47		
	8771.50	Vertical	-41.29	11.36	6.02	-35.95		
	10525.80	Vertical	-45.69	14.52	6.68	-37.85		
LTE BAND 4 3MHz Highest (1RB #0)	87.52	Vertical	-74.10	3.35	0.38	-71.13	-13	PASS
	3507.00	Vertical	-46.20	7.79	3.53	-41.94		
	5260.50	Vertical	-41.38	9.88	5.02	-36.52		
	7014.00	Vertical	-37.61	10.25	5.54	-32.90		
	8767.50	Vertical	-44.47	11.38	6.16	-39.25		
	10521.00	Vertical	-46.19	14.56	6.72	-38.35		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 5MHz Lowest (1RB #0)	88.23	Vertical	-74.15	3.35	0.38	-71.18	-13	PASS
	3425.00	Vertical	-45.47	7.76	3.75	-41.46		
	5137.50	Vertical	-46.36	9.84	4.94	-41.46		
	6850.00	Vertical	-39.34	10.21	5.32	-34.45		
	8562.50	Vertical	-42.06	11.36	6.02	-36.72		
	10275.00	Vertical	-44.62	14.52	6.68	-36.78		
LTE BAND 4 5MHz Middle (1RB #0)	87.61	Vertical	-73.96	3.35	0.38	-70.99	-13	PASS
	3423.00	Vertical	-47.24	7.76	3.75	-43.23		
	5134.50	Vertical	-46.30	9.84	4.94	-41.40		
	6846.00	Vertical	-42.59	10.21	5.32	-37.70		
	8557.50	Vertical	-41.52	11.36	6.02	-36.18		
	10269.00	Vertical	-45.69	14.52	6.68	-37.85		
LTE BAND 4 5MHz Highest (1RB #0)	86.52	Vertical	-74.48	3.35	0.38	-71.51	-13	PASS
	3505.00	Vertical	-46.20	7.79	3.53	-41.94		
	5257.50	Vertical	-41.07	9.88	5.02	-36.21		
	7010.00	Vertical	-37.54	10.25	5.54	-32.83		
	8762.50	Vertical	-44.40	11.38	6.16	-39.18		
	10515.00	Vertical	-46.39	14.56	6.72	-38.55		
LTE BAND 4 10MHz Lowest (1RB #0)	86.43	Vertical	-74.27	3.35	0.38	-71.30	-13	PASS
	3430.00	Vertical	-45.39	7.76	3.75	-41.38		
	5145.00	Vertical	-46.68	9.84	4.94	-41.78		
	6860.00	Vertical	-39.71	10.21	5.32	-34.82		
	8575.00	Vertical	-42.10	11.36	6.02	-36.76		
	10290.00	Vertical	-44.67	14.52	6.68	-36.83		
LTE BAND 4 10MHz Middle (1RB #0)	87.38	Vertical	-74.15	3.35	0.38	-71.18	-13	PASS
	3505.00	Vertical	-47.46	7.76	3.75	-43.45		
	5257.50	Vertical	-46.72	9.84	4.94	-41.82		
	7010.00	Vertical	-42.41	10.21	5.32	-37.52		
	8762.50	Vertical	-41.41	11.36	6.02	-36.07		
	10515.00	Vertical	-45.20	14.52	6.68	-37.36		
LTE BAND 4 10MHz Highest (1RB #0)	87.11	Vertical	-74.15	3.35	0.38	-71.18	-13	PASS
	3500.00	Vertical	-46.47	7.79	3.53	-42.21		
	5250.00	Vertical	-41.24	9.88	5.02	-36.38		
	7000.00	Vertical	-37.42	10.25	5.54	-32.71		
	8750.00	Vertical	-44.16	11.38	6.16	-38.94		
	10500.00	Vertical	-46.38	14.56	6.72	-38.54		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 4 15MHz Lowest (1RB #0)	86.76	Vertical	-73.99	3.35	0.38	-71.02	-13	PASS
	3435.00	Vertical	-45.37	7.76	3.75	-41.36		
	5152.50	Vertical	-46.42	9.84	4.94	-41.52		
	6870.00	Vertical	-39.20	10.21	5.32	-34.31		
	8587.50	Vertical	-42.31	11.36	6.02	-36.97		
	10305.00	Vertical	-44.69	14.52	6.68	-36.85		
LTE BAND 4 15MHz Middle (1RB #0)	87.58	Vertical	-73.97	3.35	0.38	-71.00	-13	PASS
	3505.00	Vertical	-46.38	7.76	3.75	-42.37		
	5257.50	Vertical	-46.69	9.84	4.94	-41.79		
	7010.00	Vertical	-42.08	10.21	5.32	-37.19		
	8762.50	Vertical	-41.07	11.36	6.02	-35.73		
	10515.00	Vertical	-45.67	14.52	6.68	-37.83		
LTE BAND 4 15MHz Highest (1RB #0)	86.96	Vertical	-74.12	3.35	0.38	-71.15	-13	PASS
	3495.00	Vertical	-46.47	7.79	3.53	-42.21		
	5242.50	Vertical	-41.30	9.88	5.02	-36.44		
	6990.00	Vertical	-37.13	10.25	5.54	-32.42		
	8737.50	Vertical	-44.52	11.38	6.16	-39.30		
	10485.00	Vertical	-46.09	14.56	6.72	-38.25		
LTE BAND 4 20MHz Lowest (1RB #0)	88.02	Vertical	-74.37	3.35	0.38	-71.40	-13	PASS
	3440.00	Vertical	-45.69	7.76	3.75	-41.68		
	5160.00	Vertical	-46.07	9.84	4.94	-41.17		
	6880.00	Vertical	-39.27	10.21	5.32	-34.38		
	8600.00	Vertical	-42.29	11.36	6.02	-36.95		
	10320.00	Vertical	-44.52	14.52	6.68	-36.68		
LTE BAND 4 20MHz Middle (1RB #0)	87.81	Vertical	-74.37	3.35	0.38	-71.40	-13	PASS
	3505.00	Vertical	-46.18	7.76	3.75	-42.17		
	5257.50	Vertical	-46.05	9.84	4.94	-41.15		
	7010.00	Vertical	-42.41	10.21	5.32	-37.52		
	8762.50	Vertical	-41.49	11.36	6.02	-36.15		
	10515.00	Vertical	-45.32	14.52	6.68	-37.48		
LTE BAND 4 20MHz Highest (1RB #0)	87.26	Vertical	-74.08	3.35	0.38	-71.11	-13	PASS
	3490.00	Vertical	-46.37	7.79	3.53	-42.11		
	5235.00	Vertical	-41.24	9.88	5.02	-36.38		
	6980.00	Vertical	-37.12	10.25	5.54	-32.41		
	8725.00	Vertical	-44.17	11.38	6.16	-38.95		
	10470.00	Vertical	-46.42	14.56	6.72	-38.58		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 5 1.4MHz Lowest (1RB #0)	86.57	Vertical	-73.95	3.35	0.38	-70.98	-13	PASS
	3700.40	Vertical	-45.20	7.76	3.75	-41.19		
	5550.60	Vertical	-46.69	9.84	4.94	-41.79		
	7400.80	Vertical	-39.00	10.21	5.32	-34.11		
	9251.00	Vertical	-42.31	11.36	6.02	-36.97		
	11101.20	Vertical	-44.18	14.52	6.68	-36.34		
LTE BAND 5 1.4MHz Middle (1RB #0)	85.95	Vertical	-74.37	3.35	0.38	-71.40	-13	PASS
	3760.00	Vertical	-47.71	7.76	3.75	-43.70		
	5640.00	Vertical	-46.25	9.84	4.94	-41.35		
	7520.00	Vertical	-42.31	10.21	5.32	-37.42		
	9400.00	Vertical	-41.59	11.36	6.02	-36.25		
	11280.00	Vertical	-45.30	14.52	6.68	-37.46		
LTE BAND 5 1.4MHz Highest (1RB #0)	86.22	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	3819.60	Vertical	-46.09	7.79	3.53	-41.83		
	5729.40	Vertical	-41.49	9.88	5.02	-36.63		
	7639.20	Vertical	-37.55	10.25	5.54	-32.84		
	9549.00	Vertical	-44.25	11.38	6.16	-39.03		
	11458.80	Vertical	-46.47	14.56	6.72	-38.63		
LTE BAND 5 3MHz Lowest (1RB #0)	86.76	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	3700.40	Vertical	-45.58	7.76	3.75	-41.57		
	5550.60	Vertical	-46.30	9.84	4.94	-41.40		
	7400.80	Vertical	-39.07	10.21	5.32	-34.18		
	9251.00	Vertical	-42.70	11.36	6.02	-37.36		
	11101.20	Vertical	-44.27	14.52	6.68	-36.43		
LTE BAND 5 3MHz Middle (1RB #0)	87.34	Vertical	-74.98	3.35	0.38	-72.01	-13	PASS
	3760.00	Vertical	-47.10	7.76	3.75	-43.09		
	5640.00	Vertical	-46.29	9.84	4.94	-41.39		
	7520.00	Vertical	-42.08	10.21	5.32	-37.19		
	9400.00	Vertical	-41.13	11.36	6.02	-35.79		
	11280.00	Vertical	-45.49	14.52	6.68	-37.65		
LTE BAND 5 3MHz Highest (1RB #0)	86.69	Vertical	-73.95	3.35	0.38	-70.98	-13	PASS
	3819.60	Vertical	-46.47	7.79	3.53	-42.21		
	5729.40	Vertical	-41.11	9.88	5.02	-36.25		
	7639.20	Vertical	-37.60	10.25	5.54	-32.89		
	9549.00	Vertical	-44.52	11.38	6.16	-39.30		
	11458.80	Vertical	-46.25	14.56	6.72	-38.41		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 5 5MHz Lowest (1RB #0)	86.57	Vertical	-74.32	3.35	0.38	-71.35	-13	PASS
	3700.40	Vertical	-45.09	7.76	3.75	-41.08		
	5550.60	Vertical	-46.67	9.84	4.94	-41.77		
	7400.80	Vertical	-39.50	10.21	5.32	-34.61		
	9251.00	Vertical	-42.70	11.36	6.02	-37.36		
	11101.20	Vertical	-44.20	14.52	6.68	-36.36		
LTE BAND 5 5MHz Middle (1RB #0)	87.35	Vertical	-74.58	3.35	0.38	-71.61	-13	PASS
	3760.00	Vertical	-46.69	7.76	3.75	-42.68		
	5640.00	Vertical	-46.42	9.84	4.94	-41.52		
	7520.00	Vertical	-42.26	10.21	5.32	-37.37		
	9400.00	Vertical	-41.29	11.36	6.02	-35.95		
	11280.00	Vertical	-45.36	14.52	6.68	-37.52		
LTE BAND 5 5MHz Highest (1RB #0)	87.52	Vertical	-73.97	3.35	0.38	-71.00	-13	PASS
	3819.60	Vertical	-46.58	7.79	3.53	-42.32		
	5729.40	Vertical	-41.07	9.88	5.02	-36.21		
	7639.20	Vertical	-37.40	10.25	5.54	-32.69		
	9549.00	Vertical	-44.09	11.38	6.16	-38.87		
	11458.80	Vertical	-46.27	14.56	6.72	-38.43		
LTE BAND 5 10MHz Lowest (1RB #0)	85.86	Vertical	-74.59	3.35	0.38	-71.62	-13	PASS
	3700.40	Vertical	-45.25	7.76	3.75	-41.24		
	5550.60	Vertical	-46.40	9.84	4.94	-41.50		
	7400.80	Vertical	-39.51	10.21	5.32	-34.62		
	9251.00	Vertical	-42.52	11.36	6.02	-37.18		
	11101.20	Vertical	-44.30	14.52	6.68	-36.46		
LTE BAND 5 10MHz Middle (1RB #0)	87.96	Vertical	-74.08	3.35	0.38	-71.11	-13	PASS
	3760.00	Vertical	-46.36	7.76	3.75	-42.35		
	5640.00	Vertical	-46.37	9.84	4.94	-41.47		
	7520.00	Vertical	-42.19	10.21	5.32	-37.30		
	9400.00	Vertical	-41.00	11.36	6.02	-35.66		
	11280.00	Vertical	-45.47	14.52	6.68	-37.63		
LTE BAND 5 10MHz Highest (1RB #0)	87.85	Vertical	-74.48	3.35	0.38	-71.51	-13	PASS
	3819.60	Vertical	-46.36	7.79	3.53	-42.10		
	5729.40	Vertical	-41.49	9.88	5.02	-36.63		
	7639.20	Vertical	-37.41	10.25	5.54	-32.70		
	9549.00	Vertical	-44.35	11.38	6.16	-39.13		
	11458.80	Vertical	-46.11	14.56	6.72	-38.27		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 7 5MHz Lowest (1RB #0)	86.91	Vertical	-74.26	3.35	0.38	-71.29	-25	PASS
	5005.00	Vertical	-45.20	7.76	3.75	-41.19		
	7507.50	Vertical	-46.38	9.84	4.94	-41.48		
	10010.00	Vertical	-39.07	10.21	5.32	-34.18		
	12512.50	Vertical	-41.98	11.36	6.02	-36.64		
	15015.00	Vertical	-44.03	14.52	6.68	-36.19		
LTE BAND 7 5MHz Middle (1RB #0)	88.03	Vertical	-74.09	3.35	0.38	-71.12	-25	PASS
	5070.00	Vertical	-46.37	7.76	3.75	-42.36		
	7605.00	Vertical	-46.21	9.84	4.94	-41.31		
	10140.00	Vertical	-42.11	10.21	5.32	-37.22		
	12675.00	Vertical	-41.38	11.36	6.02	-36.04		
	15210.00	Vertical	-45.27	14.52	6.68	-37.43		
LTE BAND 7 5MHz Highest (1RB #0)	87.25	Vertical	-74.32	3.35	0.38	-71.35	-25	PASS
	5135.00	Vertical	-46.47	7.79	3.53	-42.21		
	7702.50	Vertical	-41.34	9.88	5.02	-36.48		
	10270.00	Vertical	-37.28	10.25	5.54	-32.57		
	12837.50	Vertical	-44.07	11.38	6.16	-38.85		
	15405.00	Vertical	-46.51	14.56	6.72	-38.67		
LTE BAND 7 10MHz Lowest (1RB #0)	86.62	Vertical	-72.98	3.35	0.38	-70.01	-25	PASS
	5010.00	Vertical	-45.18	7.76	3.75	-41.17		
	7515.00	Vertical	-46.36	9.84	4.94	-41.46		
	10020.00	Vertical	-38.49	10.21	5.32	-33.60		
	12525.00	Vertical	-42.29	11.36	6.02	-36.95		
	15030.00	Vertical	-43.03	14.52	6.68	-35.19		
LTE BAND 7 10MHz Middle (1RB #0)	87.26	Vertical	-74.27	3.35	0.38	-71.30	-25	PASS
	5070.00	Vertical	-46.36	7.76	3.75	-42.35		
	7605.00	Vertical	-46.47	9.84	4.94	-41.57		
	10140.00	Vertical	-42.29	10.21	5.32	-37.40		
	12675.00	Vertical	-41.14	11.36	6.02	-35.80		
	15210.00	Vertical	-45.48	14.52	6.68	-37.64		
LTE BAND 7 10MHz Highest (1RB #0)	87.85	Vertical	-74.40	3.35	0.38	-71.43	-25	PASS
	5130.00	Vertical	-46.05	7.79	3.53	-41.79		
	7695.00	Vertical	-41.49	9.88	5.02	-36.63		
	10260.00	Vertical	-37.72	10.25	5.54	-33.01		
	12825.00	Vertical	-44.68	11.38	6.16	-39.46		
	15390.00	Vertical	-46.20	14.56	6.72	-38.36		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 7 15MHz Lowest (1RB #0)	86.68	Vertical	-74.09	3.35	0.38	-71.12	-25	PASS
	5015.00	Vertical	-45.32	7.76	3.75	-41.31		
	7522.50	Vertical	-46.25	9.84	4.94	-41.35		
	10030.00	Vertical	-39.32	10.21	5.32	-34.43		
	12537.50	Vertical	-42.07	11.36	6.02	-36.73		
	15045.00	Vertical	-43.70	14.52	6.68	-35.86		
LTE BAND 7 15MHz Middle (1RB #0)	87.21	Vertical	-74.27	3.35	0.38	-71.30	-25	PASS
	5070.00	Vertical	-46.09	7.76	3.75	-42.08		
	7605.00	Vertical	-46.17	9.84	4.94	-41.27		
	10140.00	Vertical	-42.52	10.21	5.32	-37.63		
	12675.00	Vertical	-41.38	11.36	6.02	-36.04		
	15210.00	Vertical	-45.50	14.52	6.68	-37.66		
LTE BAND 7 15MHz Highest (1RB #0)	87.34	Vertical	-74.15	3.35	0.38	-71.18	-25	PASS
	5125.00	Vertical	-46.09	7.79	3.53	-41.83		
	7687.50	Vertical	-40.19	9.88	5.02	-35.33		
	10250.00	Vertical	-37.31	10.25	5.54	-32.60		
	12812.50	Vertical	-43.13	11.38	6.16	-37.91		
	15375.00	Vertical	-46.48	14.56	6.72	-38.64		
LTE BAND 7 20MHz Lowest (1RB #0)	86.85	Vertical	-73.99	3.35	0.38	-71.02	-25	PASS
	5020.00	Vertical	-45.20	7.76	3.75	-41.19		
	7530.00	Vertical	-46.25	9.84	4.94	-41.35		
	10040.00	Vertical	-39.38	10.21	5.32	-34.49		
	12550.00	Vertical	-42.21	11.36	6.02	-36.87		
	15060.00	Vertical	-43.39	14.52	6.68	-35.55		
LTE BAND 7 20MHz Middle (1RB #0)	87.35	Vertical	-74.01	3.35	0.38	-71.04	-25	PASS
	5070.00	Vertical	-46.38	7.76	3.75	-42.37		
	7605.00	Vertical	-46.47	9.84	4.94	-41.57		
	10140.00	Vertical	-42.10	10.21	5.32	-37.21		
	12675.00	Vertical	-41.83	11.36	6.02	-36.49		
	15210.00	Vertical	-45.25	14.52	6.68	-37.41		
LTE BAND 7 20MHz Highest (1RB #0)	87.21	Vertical	-75.09	3.35	0.38	-72.12	-25	PASS
	5120.00	Vertical	-44.06	7.79	3.53	-39.80		
	7680.00	Vertical	-42.68	9.88	5.02	-37.82		
	10240.00	Vertical	-36.21	10.25	5.54	-31.50		
	12800.00	Vertical	-43.70	11.38	6.16	-38.48		
	15360.00	Vertical	-45.37	14.56	6.72	-37.53		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 12 1.4MHz Lowest (1RB #0)	87.35	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	1399.40	Vertical	-45.07	7.76	3.75	-41.06		
	2099.10	Vertical	-46.68	9.84	4.94	-41.78		
	2798.80	Vertical	-39.24	10.21	5.32	-34.35		
	3498.50	Vertical	-42.11	11.36	6.02	-36.77		
	4198.20	Vertical	-43.26	14.52	6.68	-35.42		
LTE BAND 12 1.4MHz Middle (1RB #0)	87.33	Vertical	-73.99	3.35	0.38	-71.02	-13	PASS
	1415.00	Vertical	-46.20	7.76	3.75	-42.19		
	2122.50	Vertical	-46.36	9.84	4.94	-41.46		
	2830.00	Vertical	-42.19	10.21	5.32	-37.30		
	3537.50	Vertical	-41.07	11.36	6.02	-35.73		
	4245.00	Vertical	-45.42	14.52	6.68	-37.58		
LTE BAND 12 1.4MHz Highest (1RB #0)	87.26	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	1430.60	Vertical	-46.20	7.79	3.53	-41.94		
	2145.90	Vertical	-40.27	9.88	5.02	-35.41		
	2861.20	Vertical	-37.10	10.25	5.54	-32.39		
	3576.50	Vertical	-43.78	11.38	6.16	-38.56		
	4291.80	Vertical	-46.39	14.56	6.72	-38.55		
LTE BAND 12 3MHz Lowest (1RB #0)	86.96	Vertical	-73.38	3.35	0.38	-70.41	-13	PASS
	1401.00	Vertical	-44.05	7.76	3.75	-40.04		
	2101.50	Vertical	-46.20	9.84	4.94	-41.30		
	2802.00	Vertical	-38.27	10.21	5.32	-33.38		
	3502.50	Vertical	-42.18	11.36	6.02	-36.84		
	4203.00	Vertical	-43.37	14.52	6.68	-35.53		
LTE BAND12 3MHz Middle (1RB #0)	86.29	Vertical	-74.29	3.35	0.38	-71.32	-13	PASS
	1415.00	Vertical	-46.58	7.76	3.75	-42.57		
	2122.50	Vertical	-46.20	9.84	4.94	-41.30		
	2830.00	Vertical	-42.21	10.21	5.32	-37.32		
	3537.50	Vertical	-41.08	11.36	6.02	-35.74		
	4245.00	Vertical	-45.72	14.52	6.68	-37.88		
LTE BAND 12 3MHz Highest (1RB #0)	87.34	Vertical	-74.10	3.35	0.38	-71.13	-13	PASS
	1429.00	Vertical	-46.25	7.79	3.53	-41.99		
	2143.50	Vertical	-40.72	9.88	5.02	-35.86		
	2858.00	Vertical	-37.12	10.25	5.54	-32.41		
	3572.50	Vertical	-44.20	11.38	6.16	-38.98		
	4287.00	Vertical	-46.29	14.56	6.72	-38.45		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 12 5MHz Lowest (1RB #0)	86.96	Vertical	-74.26	3.35	0.38	-71.29	-13	PASS
	1403.00	Vertical	-45.16	7.76	3.75	-41.15		
	2104.50	Vertical	-46.69	9.84	4.94	-41.79		
	2806.00	Vertical	-38.90	10.21	5.32	-34.01		
	3507.50	Vertical	-42.31	11.36	6.02	-36.97		
	4209.00	Vertical	-43.42	14.52	6.68	-35.58		
LTE BAND 12 5MHz Middle (1RB #0)	87.15	Vertical	-73.99	3.35	0.38	-71.02	-13	PASS
	1415.00	Vertical	-46.20	7.76	3.75	-42.19		
	2122.50	Vertical	-46.42	9.84	4.94	-41.52		
	2830.00	Vertical	-41.27	10.21	5.32	-36.38		
	3537.50	Vertical	-41.32	11.36	6.02	-35.98		
	4245.00	Vertical	-45.17	14.52	6.68	-37.33		
LTE BAND 12 5MHz Highest (1RB #0)	86.95	Vertical	-74.19	3.35	0.38	-71.22	-13	PASS
	1427.00	Vertical	-46.47	7.79	3.53	-42.21		
	2140.50	Vertical	-40.07	9.88	5.02	-35.21		
	2854.00	Vertical	-37.40	10.25	5.54	-32.69		
	3567.50	Vertical	-43.13	11.38	6.16	-37.91		
	4281.00	Vertical	-46.30	14.56	6.72	-38.46		
LTE BAND 12 10MHz Lowest (1RB #0)	86.59	Vertical	-74.15	3.35	0.38	-71.18	-13	PASS
	1428.00	Vertical	-45.20	7.76	3.75	-41.19		
	2142.00	Vertical	-46.41	9.84	4.94	-41.51		
	2856.00	Vertical	-39.11	10.21	5.32	-34.22		
	3570.00	Vertical	-42.28	11.36	6.02	-36.94		
	4284.00	Vertical	-43.10	14.52	6.68	-35.26		
LTE BAND 12 10MHz Middle (1RB #0)	87.28	Vertical	-74.27	3.35	0.38	-71.30	-13	PASS
	1415.00	Vertical	-46.72	7.76	3.75	-42.71		
	2122.50	Vertical	-46.48	9.84	4.94	-41.58		
	2830.00	Vertical	-42.33	10.21	5.32	-37.44		
	3537.50	Vertical	-41.19	11.36	6.02	-35.85		
	4245.00	Vertical	-45.68	14.52	6.68	-37.84		
LTE BAND 12 10MHz Highest (1RB #0)	87.63	Vertical	-73.95	3.35	0.38	-70.98	-13	PASS
	1422.00	Vertical	-46.12	7.79	3.53	-41.86		
	2133.00	Vertical	-40.11	9.88	5.02	-35.25		
	2844.00	Vertical	-37.50	10.25	5.54	-32.79		
	3555.00	Vertical	-43.33	11.38	6.16	-38.11		
	4266.00	Vertical	-46.38	14.56	6.72	-38.54		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 66 1.4MHz Lowest (1RB #0)	88.29	Vertical	-75.05	3.35	0.38	-72.08	-13	PASS
	3421.40	Vertical	-45.40	7.76	3.75	-41.39		
	5132.10	Vertical	-47.24	9.84	4.94	-42.34		
	6842.80	Vertical	-39.28	10.21	5.32	-34.39		
	8553.50	Vertical	-42.11	11.36	6.02	-36.77		
	10264.20	Vertical	-44.40	14.52	6.68	-36.56		
LTE BAND 66 1.4MHz Middle (1RB #0)	87.68	Vertical	-75.06	3.35	0.38	-72.09	-13	PASS
	3490.00	Vertical	-47.41	7.76	3.75	-43.40		
	5235.00	Vertical	-46.48	9.84	4.94	-41.58		
	6980.00	Vertical	-42.48	10.21	5.32	-37.59		
	8725.00	Vertical	-41.57	11.36	6.02	-36.23		
	10470.00	Vertical	-45.18	14.52	6.68	-37.34		
LTE BAND 66 1.4MHz Highest (1RB #0)	87.16	Vertical	-74.95	3.35	0.38	-71.98	-13	PASS
	3558.60	Vertical	-46.00	7.79	3.53	-41.74		
	5337.90	Vertical	-41.23	9.88	5.02	-36.37		
	7117.20	Vertical	-37.39	10.25	5.54	-32.68		
	8896.50	Vertical	-44.10	11.38	6.16	-38.88		
	10675.80	Vertical	-46.36	14.56	6.72	-38.52		
LTE BAND 66 3MHz Lowest (1RB #0)	87.22	Vertical	-74.96	3.35	0.38	-71.99	-13	PASS
	3423.00	Vertical	-45.25	7.76	3.75	-41.24		
	5134.50	Vertical	-46.07	9.84	4.94	-41.17		
	6846.00	Vertical	-39.34	10.21	5.32	-34.45		
	8557.50	Vertical	-42.48	11.36	6.02	-37.14		
	10269.00	Vertical	-44.49	14.52	6.68	-36.65		
LTE BAND 66 3MHz Middle (1RB #0)	86.96	Vertical	-74.41	3.35	0.38	-71.44	-13	PASS
	3490.00	Vertical	-47.24	7.76	3.75	-43.23		
	5235.00	Vertical	-46.50	9.84	4.94	-41.60		
	6980.00	Vertical	-42.10	10.21	5.32	-37.21		
	8725.00	Vertical	-41.32	11.36	6.02	-35.98		
	10470.00	Vertical	-45.39	14.52	6.68	-37.55		
LTE BAND 66 3MHz Highest (1RB #0)	87.35	Vertical	-74.09	3.35	0.38	-71.12	-13	PASS
	3557.00	Vertical	-46.50	7.79	3.53	-42.24		
	5335.50	Vertical	-41.07	9.88	5.02	-36.21		
	7114.00	Vertical	-37.23	10.25	5.54	-32.52		
	8892.50	Vertical	-44.41	11.38	6.16	-39.19		
	10671.00	Vertical	-46.30	14.56	6.72	-38.46		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 66 5MHz Lowest (1RB #0)	86.96	Vertical	-74.10	3.35	0.38	-71.13	-13	PASS
	3425.00	Vertical	-45.69	7.76	3.75	-41.68		
	5137.50	Vertical	-46.68	9.84	4.94	-41.78		
	6850.00	Vertical	-38.98	10.21	5.32	-34.09		
	8562.50	Vertical	-42.51	11.36	6.02	-37.17		
	10275.00	Vertical	-44.48	14.52	6.68	-36.64		
LTE BAND 66 5MHz Middle (1RB #0)	85.98	Vertical	-74.32	3.35	0.38	-71.35	-13	PASS
	3490.00	Vertical	-47.17	7.76	3.75	-43.16		
	5235.00	Vertical	-46.09	9.84	4.94	-41.19		
	6980.00	Vertical	-42.18	10.21	5.32	-37.29		
	8725.00	Vertical	-41.70	11.36	6.02	-36.36		
	10470.00	Vertical	-45.05	14.52	6.68	-37.21		
LTE BAND 66 5MHz Highest (1RB #0)	87.52	Vertical	-74.07	3.35	0.38	-71.10	-13	PASS
	3555.00	Vertical	-46.58	7.79	3.53	-42.32		
	5332.50	Vertical	-41.39	9.88	5.02	-36.53		
	7110.00	Vertical	-37.55	10.25	5.54	-32.84		
	8887.50	Vertical	-44.01	11.38	6.16	-38.79		
	10665.00	Vertical	-46.06	14.56	6.72	-38.22		
LTE BAND 66 10MHz Lowest (1RB #0)	86.26	Vertical	-73.99	3.35	0.38	-71.02	-13	PASS
	3430.00	Vertical	-45.15	7.76	3.75	-41.14		
	5145.00	Vertical	-46.47	9.84	4.94	-41.57		
	6860.00	Vertical	-39.30	10.21	5.32	-34.41		
	8575.00	Vertical	-42.62	11.36	6.02	-37.28		
	10290.00	Vertical	-44.42	14.52	6.68	-36.58		
LTE BAND 66 10MHz Middle (1RB #0)	87.34	Vertical	-74.17	3.35	0.38	-71.20	-13	PASS
	3490.00	Vertical	-47.24	7.76	3.75	-43.23		
	5235.00	Vertical	-46.20	9.84	4.94	-41.30		
	6980.00	Vertical	-42.26	10.21	5.32	-37.37		
	8725.00	Vertical	-41.14	11.36	6.02	-35.80		
	10470.00	Vertical	-45.39	14.52	6.68	-37.55		
LTE BAND 66 10MHz Highest (1RB #0)	87.59	Vertical	-74.43	3.35	0.38	-71.46	-13	PASS
	3550.00	Vertical	-46.25	7.79	3.53	-41.99		
	5325.00	Vertical	-41.18	9.88	5.02	-36.32		
	7100.00	Vertical	-37.39	10.25	5.54	-32.68		
	8875.00	Vertical	-44.51	11.38	6.16	-39.29		
	10650.00	Vertical	-46.58	14.56	6.72	-38.74		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 66 20MHz Lowest (1RB #0)	86.96	Vertical	-75.31	3.35	0.38	-72.34	-13	PASS
	3440.00	Vertical	-45.09	7.76	3.75	-41.08		
	5160.00	Vertical	-47.24	9.84	4.94	-42.34		
	6880.00	Vertical	-39.11	10.21	5.32	-34.22		
	8600.00	Vertical	-42.08	11.36	6.02	-36.74		
	10320.00	Vertical	-44.28	14.52	6.68	-36.44		
LTE BAND 66 20MHz Middle (1RB #0)	87.18	Vertical	-75.11	3.35	0.38	-72.14	-13	PASS
	3490.00	Vertical	-47.36	7.76	3.75	-43.35		
	5235.00	Vertical	-46.52	9.84	4.94	-41.62		
	6980.00	Vertical	-42.26	10.21	5.32	-37.37		
	8725.00	Vertical	-41.49	11.36	6.02	-36.15		
	10470.00	Vertical	-45.22	14.52	6.68	-37.38		
LTE BAND 66 20MHz Highest (1RB #0)	86.58	Vertical	-75.25	3.35	0.38	-72.28	-13	PASS
	3540.00	Vertical	-45.97	7.79	3.53	-41.71		
	5310.00	Vertical	-41.59	9.88	5.02	-36.73		
	7080.00	Vertical	-37.43	10.25	5.54	-32.72		
	8850.00	Vertical	-44.06	11.38	6.16	-38.84		
	10620.00	Vertical	-46.42	14.56	6.72	-38.58		

Note: Only the worst-case data shall be presented.

6. PHOTOGRAPHS OF TEST SET-UP

Please see setup photo.

7. PHOTOGRAPHS OF THE EUT

Please see external photo and internal photo.

***** END OF REPORT *****