



FCC Test Report

FCC ID: 2BPK2-DCXG414

Applicant: Shenzhen Haofa Electronics Co.,Ltd
Address: 3/F, Building 13, Weifeng Industrial Park, No.6 SongshuiRoad, Dalang Town, Dongguan City, Guangdong Province
Manufacturer: Shenzhen Haofa Electronics Co.,Ltd
Address: 3/F, Building 13, Weifeng Industrial Park, No.6 SongshuiRoad, Dalang Town, Dongguan City, Guangdong Province
EUT: AOV Low Power Consumption
Trade Mark: N/A
Model Number: DCXG414
DCXG239, DCXG232, DCXG234, H2501, H2502
Date of Receipt: Apr. 15, 2025
Test Date: Apr. 15, 2025 - Jun. 07, 2025
Date of Report: Jun. 07, 2025
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 Part27
ANSI/ TIA/ EIA-603-E-2016
FCC KDB 971168 D01 Power Meas. License Digital Systems v03v01
ANSI C63.26:2015
Test Result: Pass
Report Number: DLE-250514008R

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	PASS
Peak to Average Ratio	2.1055,22.355,27.54	PASS
99% & -26 dB Occupied Bandwidth	2.1049, 22.917	PASS
Frequency Stability	2.1055, 22.355, 27.54	PASS
Conducted Out of Band Emissions	2.1051,2.1057, 22.917, 27.53(h) /27.53(m)	PASS
Band Edge	2.1051,2.1057, 22.917, 27.53(h) /27.53(m)	PASS
Transmitter Radiated Power (EIPR/ERP)	22.913, 27.50(d)(4)/27.50(h)(2)	PASS
Radiated Out of Band Emissions	2.1053,2.1057 22.917, 27.53(h) /27.53(m)	PASS



2. GENERAL PRODUCT INFORMATION

2.1. Description of Device (EUT)

Product Name:	AOV Low Power Consumption
Trademark	N/A
Model No.:	DCXG414 DCXG239, DCXG232, DCXG234, H2501, H2502
Test Model:	DCXG414
Model Difference	All models are same as the samples except model name and appearance color, they have the same structure and circuit.
Operation Frequency:	LTE Band 5: Tx: 824.00 - 849.00MHz; Rx: 869.00 - 894.00MHz LTE Band 41: Tx: 2496.00 -2690.00MHz; Rx: 2496.00 -2690.00MHz
Modulation technology:	LTE Mode with QPSK,16QAM
Antenna Type:	External Antenna
Antenna gain:	LTE Band 5: 1.82dBi LTE Band 41: 3.34dBi
Power supply:	DC 5V from charger DC 3.7V from battery
LTE Category	1
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
LTE Band 5	Bandwidth:(MHz)1.4/3/5/10MHz Modulation: QPSK/16QAM RB:1/100%	Bandwidth:(MHz)1.4/3/5/10/15/20MHz Modulation: QPSK/16QAM RB:1/100%
LTE Band41	Bandwidth:(MHz) 5/10/15/20MHz Modulation: QPSK/16QAM RB:1/100%	Bandwidth:(MHz) 5/10/15/20MHz Modulation: QPSK/16QAM RB:1/100%

Note: 1. The product was LTE Category 1 device, the QAM16 of 10/15/20M bandwidth supports a maximum of 25 RB nodes.

2. RB Settings for Conducted RF Output Power are: 1/100%, Other test items only reflect the worst-case results.

Test Channel(MHz)			
Band	Low	Middle	High
LTE Band 5	824.7	836.5	848.3
LTE Band41	2499	2593	2688

Note: 1. for LTE mode, if the bandwidth is different, the test frequency is changed.

2. we pretest all voltage, only the DC 3.7V 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 Area, No.1 Baolong Fifth Road, Baolong
Site Location : 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	$\pm 2\%$
8	99% & -26 dB Occupied Bandwidth	$\pm 0.21\text{MHz}$
9	Peak to Average Ratio	$\pm 0.59\text{dB}$



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	YIHENG	843 Room	843	Nov. 05, 2023	Nov. 04, 2026
EMI Receiver	R&S	ESR	101421	Nov. 01, 2024	Oct. 31, 2025
LISN	R&S	ENV216	102417	Nov. 01, 2024	Oct. 31, 2025
843 Cable 1#	ChengYu	CE Cable	001	Nov. 01, 2024	Oct. 31, 2025
843 Cable 1#	FUJIKURA	843C1#	001	Nov. 01, 2024	Oct. 31, 2025

3.3.2. For radiated test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 01, 2024	Oct. 31, 2025
Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 01, 2024	Oct. 31, 2025
Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 01, 2024	Oct. 31, 2025
Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 01, 2024	Oct. 31, 2025
Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 01, 2024	Oct. 31, 2025
Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00308	Nov. 01, 2024	Oct. 31, 2025
Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02135	Nov. 01, 2024	Oct. 31, 2025
Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	587	Nov. 01, 2024	Oct. 31, 2025
Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 01, 2024	Oct. 31, 2025
Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 01, 2024	Oct. 31, 2025
Amplifier(18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 01, 2024	Oct. 31, 2025
Loop Antenna(9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 01, 2024	Oct. 31, 2025
RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 01, 2024	Oct. 31, 2025
RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 01, 2024	Oct. 31, 2025
Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 01, 2024	Oct. 31, 2025
Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 01, 2024	Oct. 31, 2025
Signal Analyzer	Agilent	N9020A	MY55370280	Nov. 01, 2024	Oct. 31, 2025
Test Receiver	R&S	ESU 40	100376	Nov. 01, 2024	Oct. 31, 2025
D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 01, 2024	Oct. 31, 2025
Signal Amplifier	DAZE	ZN3380B	11235	Nov. 01, 2024	Oct. 31, 2025
High Pass filter	KANGMAI	WHKX1.0/1.5G-10SS	40	Nov. 01, 2024	Oct. 31, 2025
Filter	COM-MW	ZBSF-C836.5-25-X	BCTC042	Nov. 01, 2024	Oct. 31, 2025
Filter	COM-MW	ZBSF-C1747.5-75-X2	BCTC045	Nov. 01, 2024	Oct. 31, 2025
Filter	COM-MW	ZBSF-C1880-60-X2	BCTC047	Nov. 01, 2024	Oct. 31, 2025
Splitter	Agilent	11435B	1125162	Nov. 01, 2024	Oct. 31, 2025
RF CONDUCTED TEST					
System Simulator	Agilent	E5515C	GB43130252	Nov. 01, 2024	Oct. 31, 2025



Spectrum Analyzer	Agilent	N9020A	MY45108040	Nov. 01, 2024	Oct. 31, 2025
DC Power Supply	LongWei	PS-305D	010965682	Nov. 01, 2024	Oct. 31, 2025
Constant temperature and humidity box	GF	GTH-800-40-2P	MAA9906-012	Nov. 01, 2024	Oct. 31, 2025
Universal radio communication tester	R&S	CMW500	115295	Nov. 01, 2024	Oct. 31, 2025

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

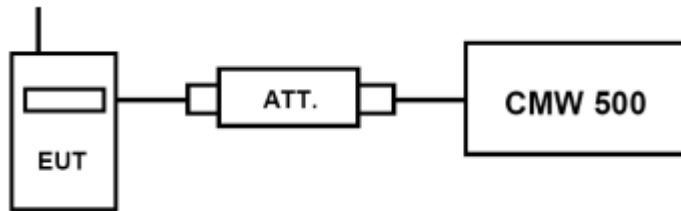
5.1. Conducted RF Output Power

5.1.1. Limit

According to FCC section 2.1046(a), FCC part 22.913(a), FCC part 22.50(a) and FCC part 24.232(a), FCC part 27.53, 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 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.



5.1.3. 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 table and plot please see annex.

The conducted power tables are as follows:



Average Conducted Power dBm						
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	22.39	22.56	22.76
		1	2	22.60	22.73	22.83
		1	5	22.47	22.62	22.68
		6	0	22.55	22.64	22.69
	16QAM	1	0	22.62	22.61	22.00
		1	2	22.80	22.79	22.07
		1	5	22.73	22.71	22.90
		6	0	22.59	22.70	22.74
Bandwidth	Modulation	RB size	RB offset	20415/825.5	20525/836.5	20635/847.5
3MHz	QPSK	1	0	22.35	22.52	22.72
		1	7	22.56	22.69	22.79
		1	14	22.43	22.58	22.64
		15	0	22.51	22.60	22.65
	16QAM	1	0	22.58	22.57	21.96
		1	7	22.76	22.75	22.03
		1	14	22.69	22.67	22.86
		15	0	22.55	22.66	22.70
Bandwidth	Modulation	RB size	RB offset	20425/826.5	20525/836.5	20625/846.5
5MHz	QPSK	1	0	22.36	22.53	22.73
		1	13	22.57	22.70	22.80
		1	24	22.44	22.59	22.65
		25	0	22.52	22.61	22.66
	16QAM	1	0	22.59	22.58	21.97
		1	13	22.77	22.76	22.04
		1	24	22.70	22.68	22.87
		25	0	22.56	22.67	22.71
Bandwidth	Modulation	RB size	RB offset	20450/829	20525/836.5	20600/844
10MHz	QPSK	1	0	22.40	22.57	22.77
		1	25	22.61	22.74	22.84
		1	49	22.48	22.63	22.69
		50	0	22.56	22.65	22.70
	16QAM	1	0	22.63	22.62	22.01
		1	25	22.81	22.80	22.08
		1	49	22.74	22.72	22.91

Note: Measurement Uncertainty: ± 2.6 dB.



Average Conducted Power						
Band	LTE Band 41			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	39675/2499	40620/2593	41565/2688
5MHz	QPSK	1	0	21.04	20.75	20.72
		1	13	21.32	21.05	21.08
		1	24	20.94	20.76	20.71
		25	0	20.05	20.88	20.89
	16QAM	1	0	20.36	20.80	20.86
		1	13	20.63	20.08	20.18
		1	24	20.27	20.81	20.88
		25	0	20.06	20.81	20.88
Bandwidth	Modulation	RB size	RB offset	39700/2501	40620/2593	41540/2685
10MHz	QPSK	1	0	21.06	20.80	20.80
		1	25	21.09	20.92	20.93
		1	49	20.90	20.77	20.76
		50	0	20.04	20.90	20.87
	16QAM	1	0	20.40	20.78	20.15
		1	25	20.44	20.94	20.31
		1	49	20.32	20.83	20.20

Average Conducted Power						
Band	LTE Band 41			Channel/Frequency (MHz)		
Bandwidth	Modulation	RB size	RB offset	39725/2504	40620/2593	41515/2683
15MHz	QPSK	1	0	20.99	20.78	20.88
		1	38	21.16	21.05	21.12
		1	74	20.83	20.76	20.75
		75	0	20.06	20.99	20.96
	16QAM	1	0	20.33	20.76	20.92
		1	38	20.55	20.05	20.14
		1	74	20.27	20.78	20.87
Bandwidth	Modulation	RB size	RB offset	39750/2506	40620/2593	41490/2680
20MHz	QPSK	1	0	20.97	20.84	20.91
		1	50	21.17	21.03	21.08
		1	99	20.89	20.84	20.72
		100	0	20.03	20.88	20.83
	16QAM	1	0	20.98	20.91	20.97
		1	50	20.18	20.17	20.05
		1	99	20.02	20.05	20.80

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



5.2. -26dB and 99% Occupied Bandwidth

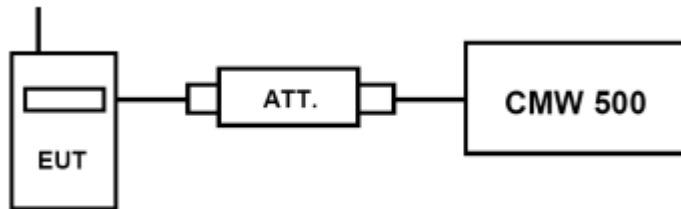
5.2.1. Limit

According to FCC section 2.1049 and FCC part22.99, FCC part24.131 and FCC part27.53, 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 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.



5.2.3. Test Result

All channels have been tested and only the worst channels are represented in the report. Pass, the table and plot please see annex.

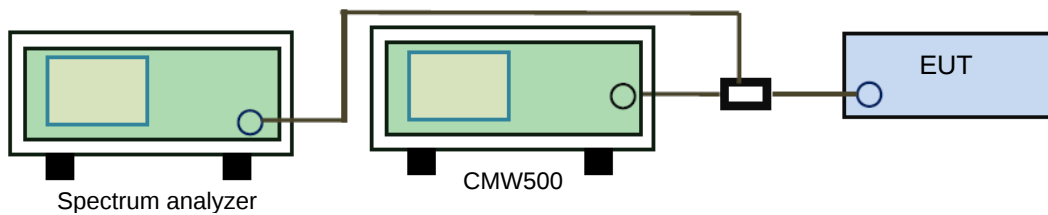


5.3. Peak to Average Ratio

5.3.1. Limit

According to FCC section 27.50(d)(5), 22.913, 24.232 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 v02r02

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.



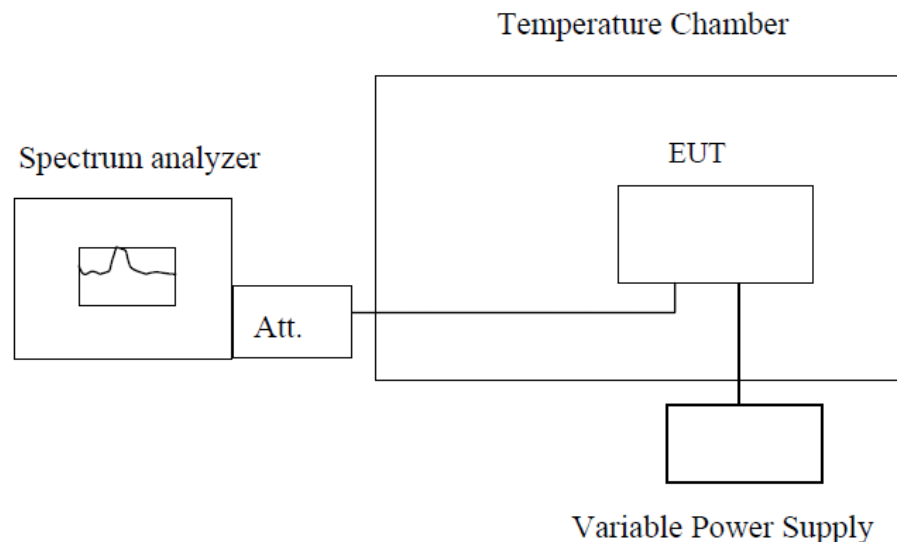
5.4. Frequency Stability

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, 4.25VDC and 3.34VDC

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.

The table and plot please see annex.



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	3.7	-40	65	0.0777	±2.5	PASS
	3.7	-30	43	0.0514		
	3.7	-20	45	0.0538		
	3.7	-10	32	0.0383		
	3.7	0	67	0.0801		
	3.7	10	75	0.0897		
	3.7	20	35	0.0418		
	3.7	30	68	0.0813		
	3.7	40	32	0.0383		
	3.7	50	56	0.0669		
	3.7	60	78	0.0932		
	3.7	70	46	0.0550		
	3.7	80	87	0.1040		
	4.25	25	35	0.0418		
	3.7	25	87	0.1040		
	3.34	25	43	0.0514		
LTE Band 5 Bandwidth 10MHz 16QAM Middle channel 836.5MHz	3.7	-40	34	0.0406	±2.5	PASS
	3.7	-30	65	0.0777		
	3.7	-20	67	0.0801		
	3.7	-10	67	0.0801		
	3.7	0	87	0.1040		
	3.7	10	54	0.0646		
	3.7	20	21	0.0251		
	3.7	30	67	0.0801		
	3.7	40	43	0.0514		
	3.7	50	89	0.1064		
	3.7	60	54	0.0646		
	3.7	70	78	0.0932		
	3.7	80	45	0.0538		
	4.25	25	89	0.1064		
	3.7	25	46	0.0550		
	3.34	25	89	0.1064		

Note: Measurement Uncertainty: ±20Hz.



Test Conditions			Frequency Deviation			Result
Band	Power(Vdc)	Temperature(°C)	Frequency Error(Hz)	ppm	Limit	
LTE Band 41 Bandwidth 20MHz QPSK Middle channel 2593MHz	3.7	-40	78	0.0308	±2.5	PASS
	3.7	-30	97	0.0383		
	3.7	-20	67	0.0264		
	3.7	-10	76	0.0300		
	3.7	0	34	0.0134		
	3.7	10	35	0.0138		
	3.7	20	86	0.0339		
	3.7	30	43	0.0170		
	3.7	40	78	0.0308		
	3.7	50	78	0.0308		
	3.7	60	43	0.0170		
	3.7	70	78	0.0308		
	3.7	80	65	0.0256		
	4.25	25	112	0.0442		
	3.7	25	68	0.0268		
	3.34	25	65	0.0256		
LTE Band 41 Bandwidth 20MHz 16QAM Middle channel 2593MHz	3.7	-40	64	0.0252	±2.5	PASS
	3.7	-30	45	0.0178		
	3.7	-20	78	0.0308		
	3.7	-10	32	0.0126		
	3.7	0	76	0.0300		
	3.7	10	86	0.0339		
	3.7	20	43	0.0170		
	3.7	30	78	0.0308		
	3.7	40	67	0.0264		
	3.7	50	53	0.0209		
	3.7	60	75	0.0296		
	3.7	70	54	0.0213		
	3.7	80	75	0.0296		
	4.25	25	123	0.0485		
	3.7	25	67	0.0264		
	3.34	25	78	0.0308		

Note: Measurement Uncertainty: ±20Hz.

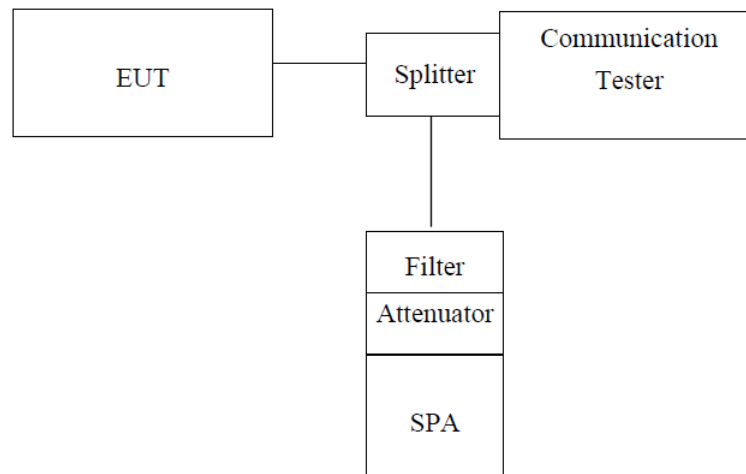


5.5. Conducted Spurious Emissions

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.

Set RBW & VBW =9kHz-0.15MHz for 1kHz, 0.15MHz-30MHz for 10kHz,

Greater than 30MHz but less than 1GHz for 100kHz, Above 1GHz for 1GHz.

Start=9kHz, Stop= 10th harmonic.

Limit = -13dBm

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

-70dBW/MHz=-40dBm/MHz

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.



5.6. Conducted Out of Band Emissions

5.6.1. Limit

According to FCC section 22.917(b) and FCC section 24.238(b), 27.53(f) 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.

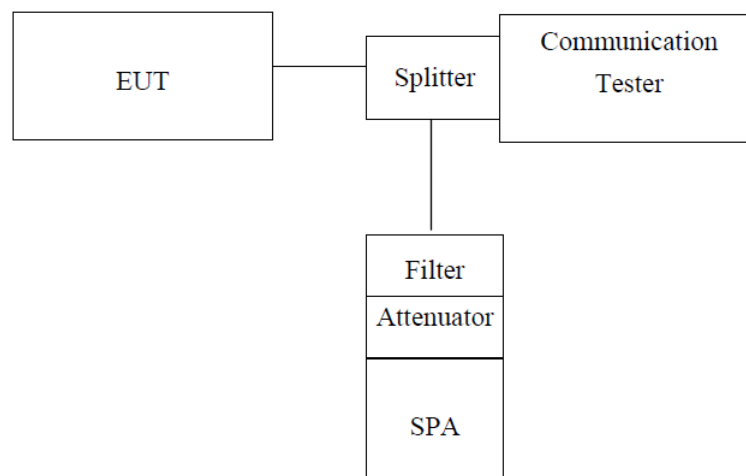
For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

-70dBW/MHz=-40dBm/MHz

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside(c)the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) withinthe licensed band(s) of operation, measured in watts, in accordance with the following:

General protection levels. Except as otherwise specified below, for operations in the 1695-1710MHz,1710-1755 MHz,1755-1780 MHz,1915-1920 MHz,1995-2000 MHz,2000-2020 MHz.2110-2155 MHz,2155-2180 MHz, and 2180-2200 bands, the power of any emission outside alicensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

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.

RBW is set to 15 kHz, VBW is set to 51 kHz for LTE Band 5 (1.4MHz),
RBW is set to 30 kHz, VBW is set to 100 kHz for LTE Band 5 (3MHz),
RBW is set to 51 kHz, VBW is set to 160 kHz for LTE Band 5 (5MHz),
RBW is set to 100 kHz, VBW is set to 300 kHz for LTE Band 5 (10MHz),
RBW is set to 50 kHz, VBW is set to 200 kHz for LTE Band 41 (5MHz).
RBW is set to 100 kHz, VBW is set to 300kHz for LTE Band 41 (10MHz).
RBW is set to 200 kHz, VBW is set to 1MHz for LTE Band 41 (15MHz/20MHz)

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.



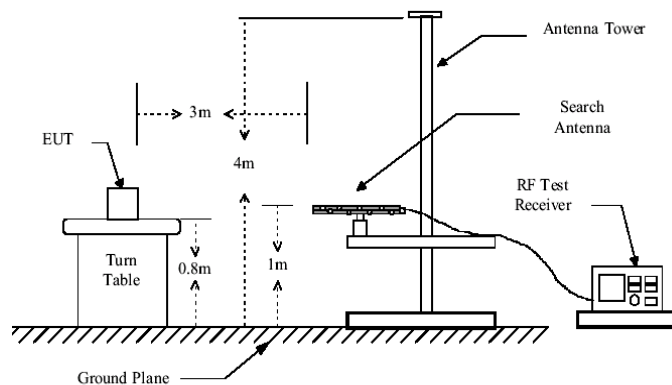
5.7. Transmitter Radiated Power (EIRP/ERP)

5.7.1. Limit

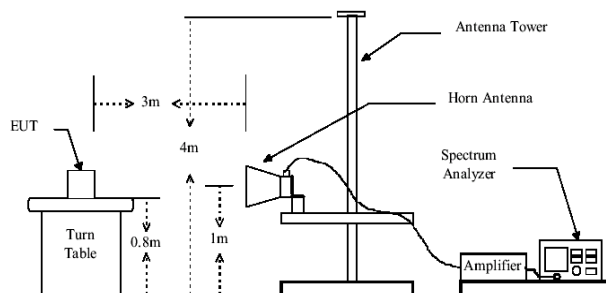
According to FCC section 22.913, the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7Watts, and FCC section 24.232, FCC section 27.50 the broadband PCS mobile station is limited to 2 Watts e.i.r.p. peak power.

5.7.2. Test Setup

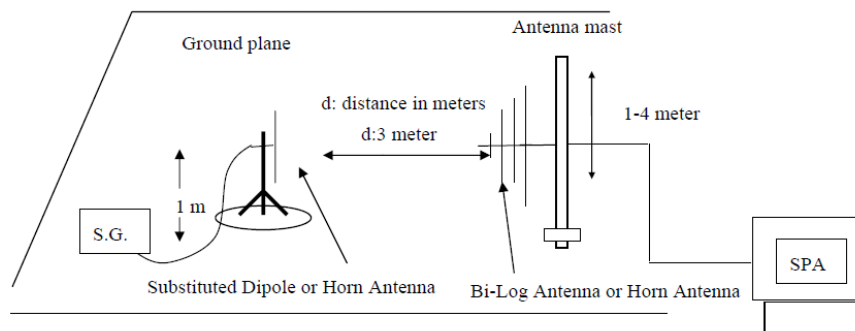
Below 1GHz



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:

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

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

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
LTE BAND 5 1.4MHz QPSK	Lowest	V	9.35	12.54	2.54	19.35	38.45	Pass
		H	9.15	12.54	2.54	19.15		
	Middle	V	9.47	12.34	2.62	19.19	38.45	Pass
		H	9.38	12.34	2.62	19.10		
	Highest	V	9.58	12.48	2.69	19.37	38.45	Pass
		H	9.29	12.49	2.69	19.09		
LTE BAND 5 3MHz QPSK	Lowest	V	9.03	12.54	2.54	19.03	38.45	Pass
		H	9.48	12.54	2.54	19.48		
	Middle	V	9.78	12.34	2.62	19.50	38.45	Pass
		H	9.22	12.34	2.62	18.94		
	Highest	V	9.68	12.48	2.69	19.47	38.45	Pass
		H	9.28	12.49	2.69	19.08		
LTE BAND 5 5MHz QPSK	Lowest	V	9.54	12.54	2.54	19.54	38.45	Pass
		H	9.09	12.54	2.54	19.09		
	Middle	V	9.17	12.34	2.62	18.89	38.45	Pass
		H	9.52	12.34	2.62	19.24		
	Highest	V	9.37	12.48	2.69	19.16	38.45	Pass
		H	9.38	12.49	2.69	19.18		
LTE BAND 5 10MHz QPSK	Lowest	V	9.44	12.54	2.54	19.44	38.45	Pass
		H	9.63	12.54	2.54	19.63		
	Middle	V	9.48	12.34	2.62	19.20	38.45	Pass
		H	9.55	12.34	2.62	19.56		
	Highest	V	9.38	12.48	2.69	19.17	38.45	Pass
		H	9.23	12.49	2.69	19.03		
LTE BAND 5 1.4MHz 16QAM	Lowest	V	9.27	12.54	2.54	19.27	38.45	Pass
		H	9.58	12.54	2.54	19.58		
	Middle	V	9.26	12.34	2.62	18.98	38.45	Pass
		H	9.35	12.34	2.62	19.07		
	Highest	V	9.57	12.48	2.69	19.36	38.45	Pass
		H	9.33	12.49	2.69	19.13		
LTE BAND 5 3MHz 16QAM	Lowest	V	9.57	12.54	2.54	19.57	38.45	Pass
		H	9.28	12.54	2.54	19.28		
	Middle	V	9.33	12.34	2.62	19.05	38.45	Pass
		H	9.57	12.34	2.62	19.29		
	Highest	V	9.37	12.48	2.69	19.16	38.45	Pass
		H	9.28	12.49	2.69	19.08		
LTE BAND 5 5MHz 16QAM	Lowest	V	9.05	12.54	2.54	19.05	38.45	Pass
		H	9.33	12.54	2.54	19.33		
	Middle	V	9.57	12.34	2.62	19.59	38.45	Pass
		H	9.38	12.34	2.62	19.10		
	Highest	V	9.32	12.48	2.69	19.11	38.45	Pass
		H	9.55	12.49	2.69	19.35		
LTE BAND 5 10MHz 16QAM	Lowest	V	9.16	12.54	2.54	19.16	38.45	Pass
		H	9.34	12.54	2.54	19.42		
	Middle	V	9.47	12.34	2.62	19.19	38.45	Pass
		H	9.52	12.34	2.62	19.24		
	Highest	V	9.37	12.48	2.69	19.16	38.45	Pass
		H	9.35	12.49	2.69	19.15		



EUT mode	Channel	Antenna Pol.	S.G. output (dBm)	Antenna Gain (dBd)	Cable Loss (dB)	EIRP (dBm)	Limit (dBm)	Result
LTE BAND 41 5MHz QPSK	Lowest	V	9.38	12.54	2.54	19.38	33.00	Pass
		H	9.33	12.54	2.54	19.33		
	Middle	V	9.57	12.34	2.62	19.29	33.00	Pass
		H	9.38	12.34	2.62	19.10		
	Highest	V	9.37	12.48	2.69	19.16	33.00	Pass
		H	9.36	12.49	2.69	19.16		
LTE BAND 41 10MHz QPSK	Lowest	V	9.58	12.54	2.52	19.60	33.00	Pass
		H	9.28	12.54	2.52	19.30		
	Middle	V	9.37	12.34	2.6	19.11	33.00	Pass
		H	9.08	12.34	2.6	18.82		
	Highest	V	9.38	12.48	2.71	19.15	33.00	Pass
		H	9.33	12.49	2.71	19.11		
LTE BAND 41 15MHz QPSK	Lowest	V	9.34	12.54	2.52	19.36	33.00	Pass
		H	9.28	12.54	2.52	19.30		
	Middle	V	9.65	12.34	2.6	19.39	33.00	Pass
		H	9.58	12.34	2.6	19.32		
	Highest	V	9.47	12.48	2.71	19.24	33.00	Pass
		H	9.56	12.49	2.71	19.34		
LTE BAND 41 20MHz QPSK	Lowest	V	9.35	12.54	2.52	19.37	33.00	Pass
		H	9.22	12.54	2.52	19.24		
	Middle	V	9.74	12.34	2.6	19.48	33.00	Pass
		H	9.55	12.34	2.6	19.29		
	Highest	V	9.87	12.48	2.71	19.64	33.00	Pass
		H	9.69	12.49	2.71	19.47		
LTE BAND 41 5MHz 16QAM	Lowest	V	9.68	12.54	2.54	19.68	33.00	Pass
		H	9.33	12.54	2.54	19.33		
	Middle	V	9.85	12.34	2.62	19.68	33.00	Pass
		H	9.24	12.34	2.62	18.96		
	Highest	V	9.38	12.48	2.69	19.17	33.00	Pass
		H	9.47	12.49	2.69	19.27		
LTE BAND 41 10MHz 16QAM	Lowest	V	9.21	12.54	2.54	19.21	33.00	Pass
		H	9.52	12.54	2.54	19.52		
	Middle	V	9.68	12.34	2.62	19.40	33.00	Pass
		H	9.14	12.34	2.62	18.86		
	Highest	V	9.35	12.48	2.69	19.14	33.00	Pass
		H	9.49	12.49	2.69	19.29		
LTE BAND 41 15MHz 16QAM	Lowest	V	9.28	12.54	2.54	19.28	33.00	Pass
		H	9.37	12.54	2.54	19.37		
	Middle	V	9.52	12.34	2.62	19.24	33.00	Pass
		H	9.14	12.34	2.62	18.86		
	Highest	V	9.33	12.48	2.69	19.12	33.00	Pass
		H	9.47	12.49	2.69	19.27		
LTE BAND 41 20MHz 16QAM	Lowest	V	9.28	12.54	2.52	19.30	33.00	Pass
		H	9.34	12.54	2.52	19.26		
	Middle	V	9.14	12.34	2.6	18.88	33.00	Pass
		H	9.36	12.34	2.6	19.10		
	Highest	V	9.57	12.48	2.71	19.34	33.00	Pass
		H	9.14	12.49	2.71	18.92		



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 $43+10\log(P)$ dB. This calculated to be -13dBm.

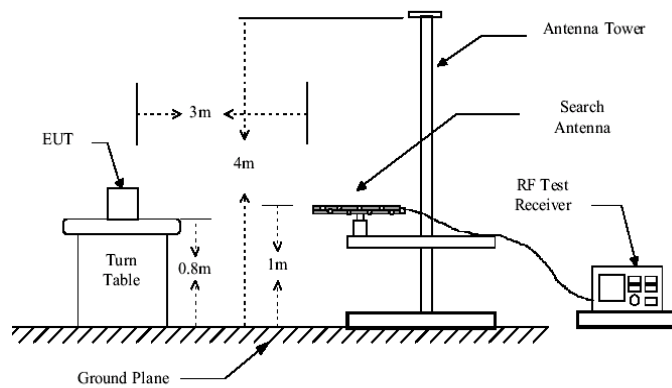
For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

-70dBW/MHz=-40dBm/MHz

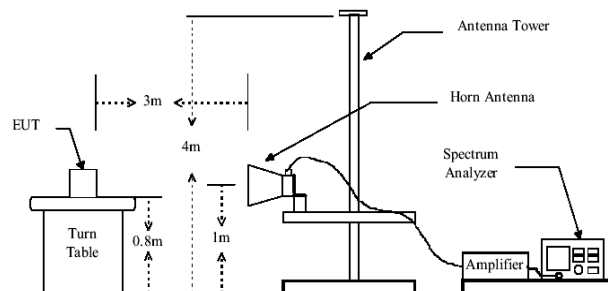
The spurious emission with frequency band 1900 according to FCC section 2.1057.

5.8.2. Test Setup

Below 1GHz

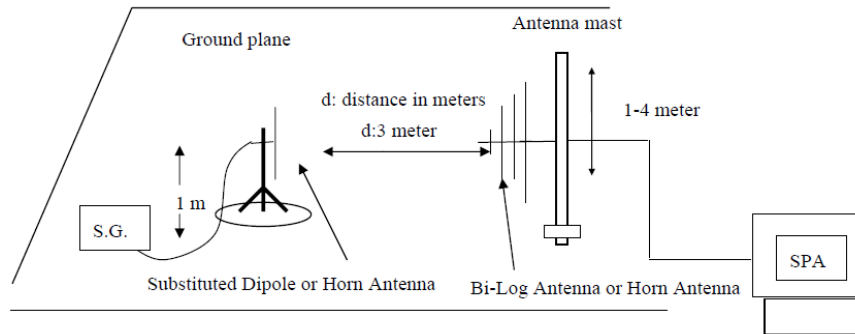


Above 1GHz





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)		
LTE BAND 5 1.4MHz Lowest	87.45	Vertical	-74.79	3.35	0.38	-71.82	-13	PASS
	3700.40	Vertical	-45.78	7.76	3.75	-41.77		
	5550.60	Vertical	-46.88	9.84	4.94	-41.98		
	7400.80	Vertical	-39.38	10.21	5.32	-34.49		
	9251.00	Vertical	-42.73	11.36	6.02	-37.39		
	11101.20	Vertical	-44.25	14.52	6.68	-36.41		
LTE BAND 5 1.4MHz Middle	88.21	Vertical	-74.79	3.35	0.38	-71.82	-13	PASS
	3760.00	Vertical	-47.09	7.76	3.75	-43.08		
	5640.00	Vertical	-46.69	9.84	4.94	-41.79		
	7520.00	Vertical	-42.34	10.21	5.32	-37.45		
	9400.00	Vertical	-41.76	11.36	6.02	-36.42		
	11280.00	Vertical	-45.68	14.52	6.68	-37.84		
LTE BAND 5 1.4MHz Highest	88.77	Vertical	-74.75	3.35	0.38	-71.78	-13	PASS
	3819.60	Vertical	-46.69	7.79	3.53	-42.43		
	5729.40	Vertical	-41.19	9.88	5.02	-36.33		
	7639.20	Vertical	-37.42	10.25	5.54	-32.71		
	9549.00	Vertical	-44.22	11.38	6.16	-39.00		
	11458.80	Vertical	-46.64	14.56	6.72	-38.80		
LTE BAND 5 3MHz Lowest	87.98	Vertical	-74.74	3.35	0.38	-71.77	-13	PASS
	3700.40	Vertical	-45.74	7.76	3.75	-41.73		
	5550.60	Vertical	-46.85	9.84	4.94	-41.95		
	7400.80	Vertical	-39.36	10.21	5.32	-34.47		
	9251.00	Vertical	-42.70	11.36	6.02	-37.36		
	11101.20	Vertical	-44.22	14.52	6.68	-36.38		
LTE BAND 5 3MHz Middle	88.78	Vertical	-74.87	3.35	0.38	-71.90	-13	PASS
	3760.00	Vertical	-47.14	7.76	3.75	-43.13		
	5640.00	Vertical	-46.74	9.84	4.94	-41.84		
	7520.00	Vertical	-42.39	10.21	5.32	-37.50		
	9400.00	Vertical	-41.80	11.36	6.02	-36.46		
	11280.00	Vertical	-45.72	14.52	6.68	-37.88		
LTE BAND 5 3MHz Highest	88.67	Vertical	-74.83	3.35	0.38	-71.86	-13	PASS
	3819.60	Vertical	-46.74	7.79	3.53	-42.48		
	5729.40	Vertical	-41.23	9.88	5.02	-36.37		
	7639.20	Vertical	-37.46	10.25	5.54	-32.75		
	9549.00	Vertical	-44.27	11.38	6.16	-39.05		
	11458.80	Vertical	-46.69	14.56	6.72	-38.85		



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	87.66	Vertical	-74.35	3.35	0.38	-71.38	-13	PASS
	3700.40	Vertical	-45.50	7.76	3.75	-41.49		
	5550.60	Vertical	-46.60	9.84	4.94	-41.70		
	7400.80	Vertical	-39.15	10.21	5.32	-34.26		
	9251.00	Vertical	-42.48	11.36	6.02	-37.14		
	11101.20	Vertical	-43.99	14.52	6.68	-36.15		
LTE BAND 5 5MHz Middle	88.32	Vertical	-74.35	3.35	0.38	-71.38	-13	PASS
	3760.00	Vertical	-46.81	7.76	3.75	-42.80		
	5640.00	Vertical	-46.42	9.84	4.94	-41.52		
	7520.00	Vertical	-42.09	10.21	5.32	-37.20		
	9400.00	Vertical	-41.51	11.36	6.02	-36.17		
	11280.00	Vertical	-45.40	14.52	6.68	-37.56		
LTE BAND 5 5MHz Highest	88.32	Vertical	-74.31	3.35	0.38	-71.34	-13	PASS
	3819.60	Vertical	-46.42	7.79	3.53	-42.16		
	5729.40	Vertical	-40.95	9.88	5.02	-36.09		
	7639.20	Vertical	-37.20	10.25	5.54	-32.49		
	9549.00	Vertical	-43.96	11.38	6.16	-38.74		
	11458.80	Vertical	-46.37	14.56	6.72	-38.53		
LTE BAND 5 10MHz Lowest	87.23	Vertical	-74.38	3.35	0.38	-71.41	-13	PASS
	3700.40	Vertical	-45.52	7.76	3.75	-41.51		
	5550.60	Vertical	-46.61	9.84	4.94	-41.71		
	7400.80	Vertical	-39.16	10.21	5.32	-34.27		
	9251.00	Vertical	-42.50	11.36	6.02	-37.16		
	11101.20	Vertical	-44.01	14.52	6.68	-36.17		
LTE BAND 5 10MHz Middle	88.21	Vertical	-74.45	3.35	0.38	-71.48	-13	PASS
	3760.00	Vertical	-46.87	7.76	3.75	-42.86		
	5640.00	Vertical	-46.47	9.84	4.94	-41.57		
	7520.00	Vertical	-42.16	10.21	5.32	-37.27		
	9400.00	Vertical	-41.57	11.36	6.02	-36.23		
	11280.00	Vertical	-45.46	14.52	6.68	-37.62		
LTE BAND 5 10MHz Highest	88.15	Vertical	-74.41	3.35	0.38	-71.44	-13	PASS
	3819.60	Vertical	-46.47	7.79	3.53	-42.21		
	5729.40	Vertical	-41.01	9.88	5.02	-36.15		
	7639.20	Vertical	-37.26	10.25	5.54	-32.55		
	9549.00	Vertical	-44.02	11.38	6.16	-38.80		
	11458.80	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 41 5MHz Lowest	87.89	Vertical	-74.62	3.35	0.38	-71.65	-25	PASS
	5005.00	Vertical	-45.64	7.76	3.75	-41.63		
	7507.50	Vertical	-46.74	9.84	4.94	-41.84		
	10010.00	Vertical	-39.27	10.21	5.32	-34.38		
	12512.50	Vertical	-42.61	11.36	6.02	-37.27		
	15015.00	Vertical	-44.13	14.52	6.68	-36.29		
LTE BAND 41 5MHz Middle	87.87	Vertical	-74.58	3.35	0.38	-71.61	-25	PASS
	5070.00	Vertical	-46.96	7.76	3.75	-42.95		
	7605.00	Vertical	-46.55	9.84	4.94	-41.65		
	10140.00	Vertical	-42.22	10.21	5.32	-37.33		
	12675.00	Vertical	-41.64	11.36	6.02	-36.30		
	15210.00	Vertical	-45.54	14.52	6.68	-37.70		
LTE BAND 41 5MHz Highest	88.87	Vertical	-74.54	3.35	0.38	-71.57	-25	PASS
	5135.00	Vertical	-46.55	7.79	3.53	-42.29		
	7702.50	Vertical	-41.08	9.88	5.02	-36.22		
	10270.00	Vertical	-37.32	10.25	5.54	-32.61		
	12837.50	Vertical	-44.10	11.38	6.16	-38.88		
	15405.00	Vertical	-46.50	14.56	6.72	-38.66		
LTE BAND 41 10MHz Lowest	87.53	Vertical	-73.74	3.35	0.38	-70.77	-25	PASS
	5010.00	Vertical	-45.13	7.76	3.75	-41.12		
	7515.00	Vertical	-46.21	9.84	4.94	-41.31		
	10020.00	Vertical	-38.83	10.21	5.32	-33.94		
	12525.00	Vertical	-42.13	11.36	6.02	-36.79		
	15030.00	Vertical	-43.63	14.52	6.68	-35.79		
LTE BAND 41 10MHz Middle	88.23	Vertical	-74.64	3.35	0.38	-71.67	-25	PASS
	5070.00	Vertical	-46.99	7.76	3.75	-42.98		
	7605.00	Vertical	-46.59	9.84	4.94	-41.69		
	10140.00	Vertical	-42.26	10.21	5.32	-37.37		
	12675.00	Vertical	-41.68	11.36	6.02	-36.34		
	15210.00	Vertical	-45.58	14.52	6.68	-37.74		
LTE BAND 41 10MHz Highest	88.23	Vertical	-74.60	3.35	0.38	-71.63	-25	PASS
	5130.00	Vertical	-46.59	7.79	3.53	-42.33		
	7695.00	Vertical	-41.11	9.88	5.02	-36.25		
	10260.00	Vertical	-37.35	10.25	5.54	-32.64		
	12825.00	Vertical	-44.14	11.38	6.16	-38.92		
	15390.00	Vertical	-46.54	14.56	6.72	-38.70		



Band	Frequency (MHz)	Spurious Emission					Limit (dBm)	Result
		Polarization	S.G. output (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Level (dBm)		
LTE BAND 41 15MHz Lowest	87.12	Vertical	-74.32	3.35	0.38	-71.35	-25	PASS
	5015.00	Vertical	-45.49	7.76	3.75	-41.48		
	7522.50	Vertical	-46.58	9.84	4.94	-41.68		
	10030.00	Vertical	-39.14	10.21	5.32	-34.25		
	12537.50	Vertical	-42.46	11.36	6.02	-37.12		
	15045.00	Vertical	-43.98	14.52	6.68	-36.14		
LTE BAND 41 15MHz Middle	88.87	Vertical	-74.32	3.35	0.38	-71.35	-25	PASS
	5070.00	Vertical	-46.79	7.76	3.75	-42.78		
	7605.00	Vertical	-46.39	9.84	4.94	-41.49		
	10140.00	Vertical	-42.08	10.21	5.32	-37.19		
	12675.00	Vertical	-41.50	11.36	6.02	-36.16		
	15210.00	Vertical	-45.39	14.52	6.68	-37.55		
LTE BAND 41 15MHz Highest	88.29	Vertical	-74.28	3.35	0.38	-71.31	-25	PASS
	5125.00	Vertical	-46.39	7.79	3.53	-42.13		
	7687.50	Vertical	-40.94	9.88	5.02	-36.08		
	10250.00	Vertical	-37.20	10.25	5.54	-32.49		
	12812.50	Vertical	-43.95	11.38	6.16	-38.73		
	15375.00	Vertical	-46.34	14.56	6.72	-38.50		
LTE BAND 41 20MHz Lowest	87.81	Vertical	-74.29	3.35	0.38	-71.32	-25	PASS
	5020.00	Vertical	-45.47	7.76	3.75	-41.46		
	7530.00	Vertical	-46.56	9.84	4.94	-41.66		
	10040.00	Vertical	-39.12	10.21	5.32	-34.23		
	12550.00	Vertical	-42.45	11.36	6.02	-37.11		
	15060.00	Vertical	-43.96	14.52	6.68	-36.12		
LTE BAND 41 20MHz Middle	88.56	Vertical	-74.49	3.35	0.38	-71.52	-25	PASS
	5070.00	Vertical	-46.89	7.76	3.75	-42.88		
	7605.00	Vertical	-46.49	9.84	4.94	-41.59		
	10140.00	Vertical	-42.18	10.21	5.32	-37.29		
	12675.00	Vertical	-41.60	11.36	6.02	-36.26		
	15210.00	Vertical	-45.49	14.52	6.68	-37.65		
LTE BAND 41 20MHz Highest	88.22	Vertical	-74.45	3.35	0.38	-71.48	-25	PASS
	5120.00	Vertical	-46.49	7.79	3.53	-42.23		
	7680.00	Vertical	-41.04	9.88	5.02	-36.18		
	10240.00	Vertical	-37.27	10.25	5.54	-32.56		
	12800.00	Vertical	-44.05	11.38	6.16	-38.83		
	15360.00	Vertical	-46.44	14.56	6.72	-38.60		



6. PHOTOGRAPHS OF TEST SET-UP

Reference to the appendix I for details.

7. PHOTOGRAPHS OF THE EUT

Reference to the appendix II for details.

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