



TEST REPORT FCC Part 27

Report Reference No. : HK2008072128-4E

FCC ID. : 2AW7H-LS-BC4G

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Date of issue : Aug. 20, 2020

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Applicant's name : **SHENZHEN LS VISION TECHNOLOGY LTD**

Address : 6 Floor, Blg 7, LongBi Industrial Park, BanTian Street, LongGang District, Shenzhen, 518055, P.R. China

Test specification :

Standard : **FCC CFR Title 47 Part 2, Part 27**

TRF Originator : Shenzhen HUAK Testing Technology Co., Ltd.

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Test item description : 4G body Camera

Trade Mark : LS VISION

Manufacturer : **SHENZHEN LS VISION TECHNOLOGY LTD**

Model/Type reference : LS-BC4G416

Listed Models : LS-BC4G2XX, LS-BC4G4XX, LS-BC4G5XX, LS-BC4G6XX

Modulation Type : QPSK, 16QAM

Rating : DC 3.7V From Battery

Hardware version : BC007_S3Lm_OV4689_11

Software version : V1.3.24

Result : **PASS**

**TEST REPORT**

Test Report No. :	HK2008072128-3E	Aug. 20, 2020
		Date of issue

Equipment under Test : 4G body Camera

Model /Type : LS-BC4G416

Listed Models : LS-BC4G2XX, LS-BC4G4XX, LS-BC4G5XX, LS-BC4G6XX

Applicant : **SHENZHEN LS VISION TECHNOLOGY LTD**

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Manufacturer : **SHENZHEN LS VISION TECHNOLOGY LTD**

Address : 6 Floor, Blg 7, LongBi Industrial Park, BanTian Street, LongGang District, Shenzhen, 518055, P.R. China

Test Result:	PASS
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Revision History

Revision	Issue Date	Revisions	Revised By
V1.0	Aug. 20, 2020	Initial Issue	James Zhou



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1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[FCC Part 27](#) : MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

[ANSI/TIA-603-E-2016](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[ANSI C63.26-2015](#): IEEE/ANSI Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

[KDB971168 D01](#): v02r02 MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS



2 SUMMARY

2.1 General Remarks

Date of receipt of test sample	:	Jul. 29, 2020
Testing commenced on	:	Aug. 20, 2020
Testing concluded on	:	Aug. 20, 2020

2.2 Product Description

The SHENZHEN LS VISION TECHNOLOGY LTD's Model: 4G body Camera the "EUT" as referred to in this report; more general information as follows, for more details, refer to the user's manual of the EUT.

Name of EUT	4G body Camera
Model/Type reference:	LS-BC4G416
Power supply:	DC 3.7V From Battery
Adapter Information:	MODEL:XS12-050200U INPUT: 100-240VAC 50/60Hz 0.5A OUTPUT: 5V 2A
Modulation Type	QPSK,16QAM
Antenna Type	Internal Antenna
Operation Frequency Band	LTE Band 7
Operation frequency	LTE Band 7: 2500 to 2570 MHz
LTE Release	R8
Extreme temp. Tolerance	-30°C to +50°C
Extreme vol. Limits	3.4VDC to 4.2VDC (nominal: 3.70VDC)

NOTE: The device supports band7, but only supports 5MHz/10MHz/15MHz bandwidth, not 20MHz bandwidth, so the test result does not display 20M bandwidth

2.3 Equipment under Test

Power supply system utilised

Power supply voltage	:	<input type="radio"/>	120V/ 60 Hz	<input type="radio"/>	115V/60Hz
		<input type="radio"/>	12 V DC	<input type="radio"/>	24 V DC
		<input checked="" type="radio"/>	Other (specified in blank below)		

DC 3.7V From Battery

2.4 Short description of the Equipment under Test (EUT)

2.4.1 General Description

4G body Camera is subscriber equipment in the LTE system. LTE frequency band is band 41; The 4G Mobile phone implements such functions as RF signal receiving/transmitting, LTE protocol processing, voice, video, MMS service, etc. Externally it provides microSD card interface, earphone port (to provide voice service) and SIM card interface.



2.5 Normal Accessory setting

Fully charged battery was used during the test.

2.6 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

<input type="radio"/>	Power Cable	Length (m) :	/
		Shield :	/
		Detachable :	/
<input type="radio"/>	Multimeter	Manufacturer :	/
		Model No. :	/

2.7 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2AW7H-LS-BC4G** filing to comply with FCC Part 27, Rules.

2.8 Modifications

No modifications were implemented to meet testing criteria.

2.9 General Test Conditions/Configurations

2.9.1 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	Ambient	
Temperature	TN	Ambient
Voltage	VL	3.4V
	VN	3.7V
	VH	4.2V

NOTE: VL=lower extreme test voltage VN=nominal voltage
VH=upper extreme test voltage TN=normal temperature



3 TEST ENVIRONMENT

3.1 Address of the test laboratory

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address : 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China

FCC designation number : CN1229

test firm registration number : 616276

3.2 Test Description

Test Item	FCCRuleNo.	Verdict
Effective(Isotropic)RadiatedOutputPower	Part 2.1046 27.50(h)(2)	Pass
Peak-AverageRatio	Part 2.1046	Pass
ModulationCharacteristics	§2.1047	N/A
Bandwidth	Part 2.1049	Pass
BandEdgesCompliance	Part 2.1051 27.53(m)	Pass
SpuriousEmissionatAntennaTerminals	Part 2.1051 27.53(m)	Pass
Field Strengthof Spurious Radiation	Part 2.1053 27.53(m)	Pass
Frequency Stability	Part 2.1055 27.54	Pass

NOTE 1:For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".

Remark:

1. The measurement uncertainty is not included in the test result.



3.3 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
LISN	R&S	ENV216	HKE-059	2019/12/26	2020/12/25
LISN	R&S	ENV216	HKE-002	2019/12/26	2020/12/25
Receiver	R&S	ESCI 7	HKE-010	2019/12/26	2020/12/25
Spectrum analyzer	R&S	FSP40	HKE-025	2019/12/26	2020/12/25
Spectrum analyzer	Agilent	N9020A	HKE-048	2019/12/26	2020/12/25
RF automatic control unit	Tonscend	JS0806-1	HKE-060	2019/12/26	2020/12/25
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	2019/12/26	2020/12/25
Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	2019/12/26	2020/12/25
Horn antenna	Schwarzbeck	9120D	HKE-013	2019/12/26	2020/12/25
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	2019/12/26	2020/12/25
Preamplifier	EMCI	EMC051845SE	HKE-015	2019/12/26	2020/12/25
Preamplifier	Agilent	83051A	HKE-016	2019/12/26	2020/12/25
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	2019/12/26	2020/12/25
Temperature and humidity meter	Boyang	HTC-1	HKE-075	2019/12/26	2020/12/25
High-low temperature chamber	Guangke	HT-80L	HKE-118	2019/12/26	2020/12/25
High pass filter unit	Tonscend	JS0806-F	HKE-055	2019/12/26	2020/12/25
RF Cable(below1GHz)	Times	9kHz-1GHz	HKE-117	2019/12/26	2020/12/25
RF Cable(above 1GHz)	Times	1-40G	HKE-034	2019/12/26	2020/12/25
Power meter	Agilent	E4419B	HKE-085	2019/12/26	2020/12/25
Power Sensor	Agilent	E9300A	HKE-086	2019/12/26	2020/12/25
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A
RF test software	Tonscend	JS1120-4	HKE-113	N/A	N/A
RF test software	Tonscend	JS1120-3	HKE-114	N/A	N/A
RF test software	Tonscend	JS1120-1	HKE-115	N/A	N/A
Wireless Communication Test Set	R&S	CMW500	HKE-026	2019/12/26	2020/12/25
Wireless Communication Test Set	R&S	CMU200	HKE-029	2019/12/26	2020/12/25

4 TEST CONDITIONS AND RESULTS

4.1 Output Power

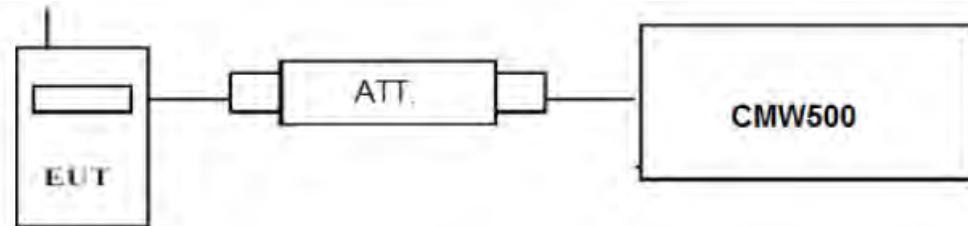
4.1.1 Conducted Output Power

TEST APPLICABLE

Part 27.50(h)(2) , during the process of testing, the EUT was controlled via R&S Digital Radio Communication tester (CMW500) to ensure max power transmission and proper modulation. This result contains output power measurements for the EUT. In all cases, output power is within the specified limits.

TEST CONFIGURATION

ConductedPowerMeasurement:



TEST PROCEDURE

Conducted Power Measurement:

- a) Place the EUT on a bench and set it in transmitting mode.
- b) Connect a low loss RF cable from the antenna port to a CMW500 by an Att.
- c) EUT Communicate with CMW500 then selects a channel for testing.
- d) Add a correction factor to the display CMW500, and then test.

TEST RESULTS



Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 7;

LTE Band 7				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	Burst Average Power [dBm]	
			QPSK	16QAM
5 MHz	2502.5	1 RB low	20.16	19.42
		1 RB mid	20.62	18.88
		1 RB high	20.55	17.83
		50% RB low	20.88	17.96
		50% RB mid	20.51	17.57
		50% RB high	20.95	17.03
		100% RB	20.45	17.47
	2535	1 RB low	21.01	19.88
		1 RB mid	20.76	19.63
		1 RB high	20.89	18.78
		50% RB low	20.77	18.78
		50% RB mid	20.52	18.53
		50% RB high	20.11	18.11
		100% RB	20.47	18.46
10 MHz	2567.5	1 RB low	20.31	19.42
		1 RB mid	20.57	19.58
		1 RB high	20.06	19.12
		50% RB low	20.42	18.38
		50% RB mid	20.45	18.40
		50% RB high	20.20	18.20
		100% RB	20.33	18.35
	2505	1 RB low	20.09	19.24
		1 RB mid	20.66	17.88
		1 RB high	20.35	16.60
		50% RB low	20.39	17.41
		50% RB mid	20.59	16.64
		50% RB high	20.89	15.93
		100% RB	20.70	16.70
15 MHz	2535	1 RB low	21.14	20.35
		1 RB mid	20.63	19.77
		1 RB high	20.07	18.32
		50% RB low	20.99	18.95
		50% RB mid	20.52	18.50
		50% RB high	20.77	17.81
		100% RB	20.41	18.36
	2565	1 RB low	20.68	18.99
		1 RB mid	20.59	19.86
		1 RB high	20.16	19.44
		50% RB low	20.20	18.17
		50% RB mid	20.41	18.40
		50% RB high	20.38	18.37
		100% RB	20.26	18.28
	2507.5	1 RB low	20.87	19.07
		1 RB mid	20.00	17.08
		1 RB high	20.12	16.35
		50% RB low	20.06	16.98
		50% RB mid	20.01	18.98
		50% RB high	20.44	15.35
		100% RB	20.27	16.21
	2535	1 RB low	20.85	20.04
		1 RB mid	20.66	19.80
		1 RB high	18.33	17.60
		50% RB low	20.14	19.05
		50% RB mid	20.63	18.54
		50% RB high	20.56	17.48



2562.5	100% RB	20.43	18.36
	1 RB low	20.21	17.48
	1 RB mid	20.38	19.39
	1 RB high	20.14	19.28
	50% RB low	20.27	17.27
	50% RB mid	20.11	18.10
	50% RB high	20.47	18.42
	100% RB	20.91	17.87

4.1.2. Radiated Output Power

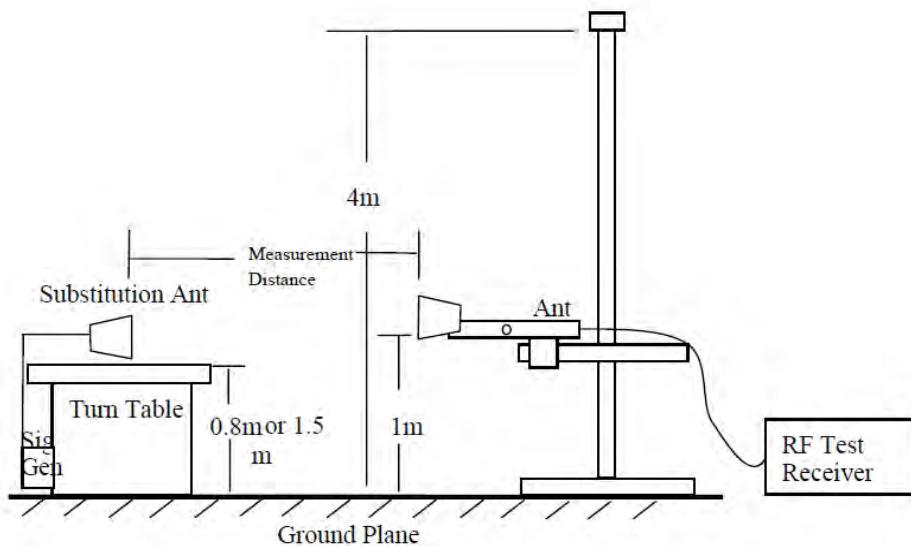
LIMIT

This is the test for the maximum radiated power from the EUT.

TEST CONFIGURATION

Radiated Power Measurement:

remark : 0.8m for below 1GHz, 1.5m for above 1GHz



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter.
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- l. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. Test site anechoic chamber refer to ANSI C63.4.



TEST RESULTS

Radiated Measurement:

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 7; recorded worst case for each Channel Bandwidth of LTE Band 7.
2. $EIRP = P_s(\text{dBm}) - P_{cl}(\text{dB}) + G_a(\text{dBi})$
3. We measured both Horizontal and Vertical direction, recorded worst case direction.

LTE Band 7_Channel Bandwidth 5MHz_QPSK_1RB#0

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.5	8.08	3.41	15.12	19.79	33.01	13.22	V
2535	7.76	3.49	15.12	19.39	33.01	13.62	V
2567.5	8.38	3.55	15.12	19.95	33.01	13.06	V

LTE Band 7_Channel Bandwidth 10MHz_QPSK_1RB#0

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505	7.91	3.41	15.12	19.62	33.01	13.39	V
2535	7.73	3.49	15.12	19.36	33.01	13.65	V
2565	7.93	3.55	15.12	19.50	33.01	13.51	V

LTE Band 7_Channel Bandwidth 15MHz_QPSK_1RB#0

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.5	7.94	3.41	15.12	19.65	33.01	13.36	V
2535	8.02	3.49	15.12	19.65	33.01	13.36	V
2562.5	7.73	3.55	15.12	19.30	33.01	13.71	V

*LTE Band 7_Channel Bandwidth 5MHz_16QAM_1RB#0*

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2502.5	7.84	3.41	15.12	19.55	33.01	13.46	V
2535	8.51	3.49	15.12	20.14	33.01	12.87	V
2567.5	7.80	3.55	15.12	19.37	33.01	13.64	V

LTE Band 7_Channel Bandwidth 10MHz_16QAM_1RB#0

Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2505	7.88	3.41	15.12	19.59	33.01	13.42	V
2535	7.71	3.49	15.12	19.34	33.01	13.67	V
2565	8.21	3.55	15.12	19.78	33.01	13.23	V

LTE Band 7_Channel Bandwidth 15MHz_16QAM_1RB#0

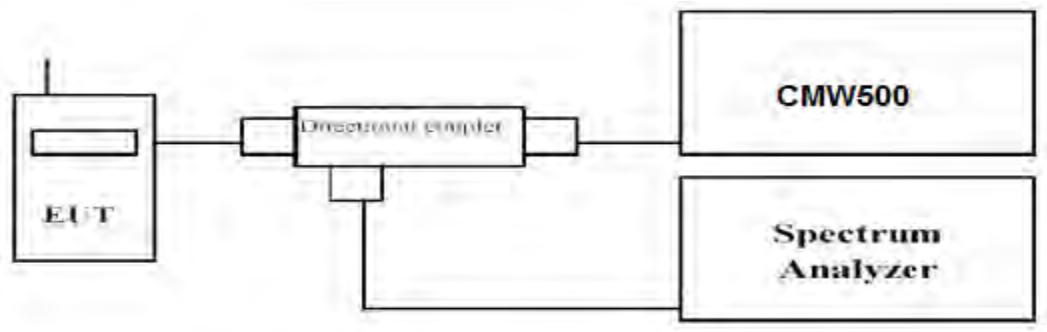
Frequency (MHz)	P _s (dBm)	P _{cl} (dB)	G _a Antenna Gain(dB)	Burst Average EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
2507.5	8.03	3.41	15.12	19.74	33.01	13.27	V
2535	8.26	3.49	15.12	19.89	33.01	13.12	V
2562.5	8.32	3.55	15.12	19.89	33.01	13.12	V

4.2 Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms,
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 7; recorded worst case for each Channel Bandwidth of LTE Band 7.

LTE Band 7				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR(dB)	
			QPSK	16QAM
5 MHz	2502.5	1RB#0	4.93	4.96
	2535		5.37	5.47
	2567.5		5.44	5.55
10 MHz	2505	1RB#0	4.61	4.61
	2535		4.62	5.10
	2565		4.67	4.67
15 MHz	2507.5	1RB#0	5.81	5.79
	2535		5.80	5.82
	2562.5		5.81	5.44





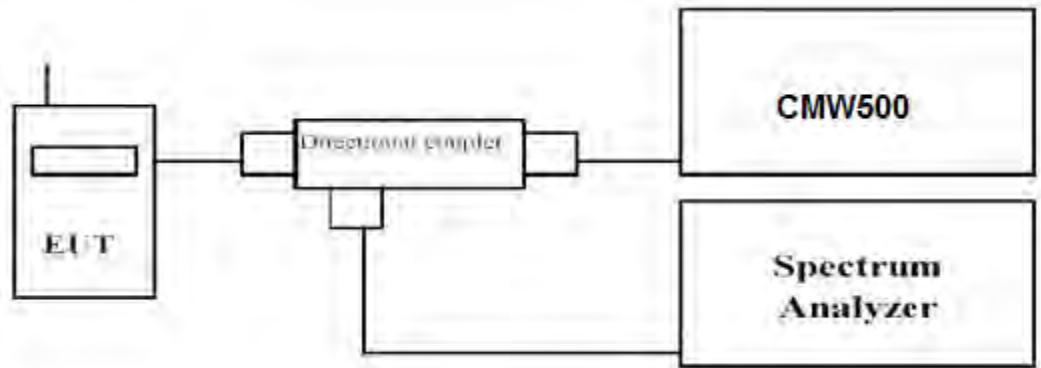


4.3 Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded. Set RBW was set to about 1% of emission BW, $VBW \geq 3$ times RBW.

-26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 7; recorded worst case for each Channel Bandwidth of LTE Band 7.

LTE Band 7						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	99% Occupied bandwidth (MHz)		-26dBc Emission bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
5 MHz	25RB#0	2502.5	4.4795	4.4907	5.068	5.143
		2535	4.4678	4.4723	5.025	5.014
		2567.5	4.4902	4.4720	5.055	4.968
10 MHz	50RB#0	2505	8.9494	8.9545	9.918	9.930
		2535	8.9528	8.9485	9.868	9.797
		2565	8.9486	8.9558	9.749	9.731
15 MHz	75RB#0	2507.5	13.444	13.448	14.72	14.64
		2535	13.439	13.412	17.78	14.87
		2562.5	13.422	13.411	14.66	14.69



LTE Band 7-5MHz Channel Bandwidth Occupied Bandwidth and Emission Bandwidth

QPSK

16QAM

Low Channel

Keystream Spectrum Analyzer - Occupied BW

Center Freq: 2.502500000 GHz

Span: 10 MHz

Frequency: 2.502500000 GHz

Occupied Bandwidth: 4.4795 MHz

Total Power: 30.9 dBm

Transmit Freq Error: -1.027 kHz

x dB Bandwidth: 5.068 MHz

% of OBW Power: 99.00 %

x dB: -26.00 dB

Keystream Spectrum Analyzer - Occupied BW

Center Freq: 2.502500000 GHz

Span: 10 MHz

Frequency: 2.502500000 GHz

Occupied Bandwidth: 4.4907 MHz

Total Power: 29.8 dBm

Transmit Freq Error: 1.601 kHz

x dB Bandwidth: 5.143 MHz

% of OBW Power: 99.00 %

x dB: -26.00 dB

25RB#0

25RB#0

Middle Channel

Keystream Spectrum Analyzer - Occupied BW

Center Freq: 2.535000000 GHz

Span: 10 MHz

Frequency: 2.535000000 GHz

Occupied Bandwidth: 4.4678 MHz

Total Power: 30.4 dBm

Transmit Freq Error: 237 Hz

x dB Bandwidth: 5.025 MHz

% of OBW Power: 99.00 %

x dB: -26.00 dB

Keystream Spectrum Analyzer - Occupied BW

Center Freq: 2.535000000 GHz

Span: 10 MHz

Frequency: 2.535000000 GHz

Occupied Bandwidth: 4.4723 MHz

Total Power: 30.0 dBm

Transmit Freq Error: -3.276 kHz

x dB Bandwidth: 5.014 MHz

% of OBW Power: 99.00 %

x dB: -26.00 dB

25RB#0

25RB#0

High Channel

Keystream Spectrum Analyzer - Occupied BW

Center Freq: 2.567500000 GHz

Span: 10 MHz

Frequency: 2.567500000 GHz

Occupied Bandwidth: 4.4902 MHz

Total Power: 30.4 dBm

Transmit Freq Error: 1.861 kHz

x dB Bandwidth: 5.055 MHz

% of OBW Power: 99.00 %

x dB: -26.00 dB

Keystream Spectrum Analyzer - Occupied BW

Center Freq: 2.567500000 GHz

Span: 10 MHz

Frequency: 2.567500000 GHz

Occupied Bandwidth: 4.4720 MHz

Total Power: 30.2 dBm

Transmit Freq Error: -716 Hz

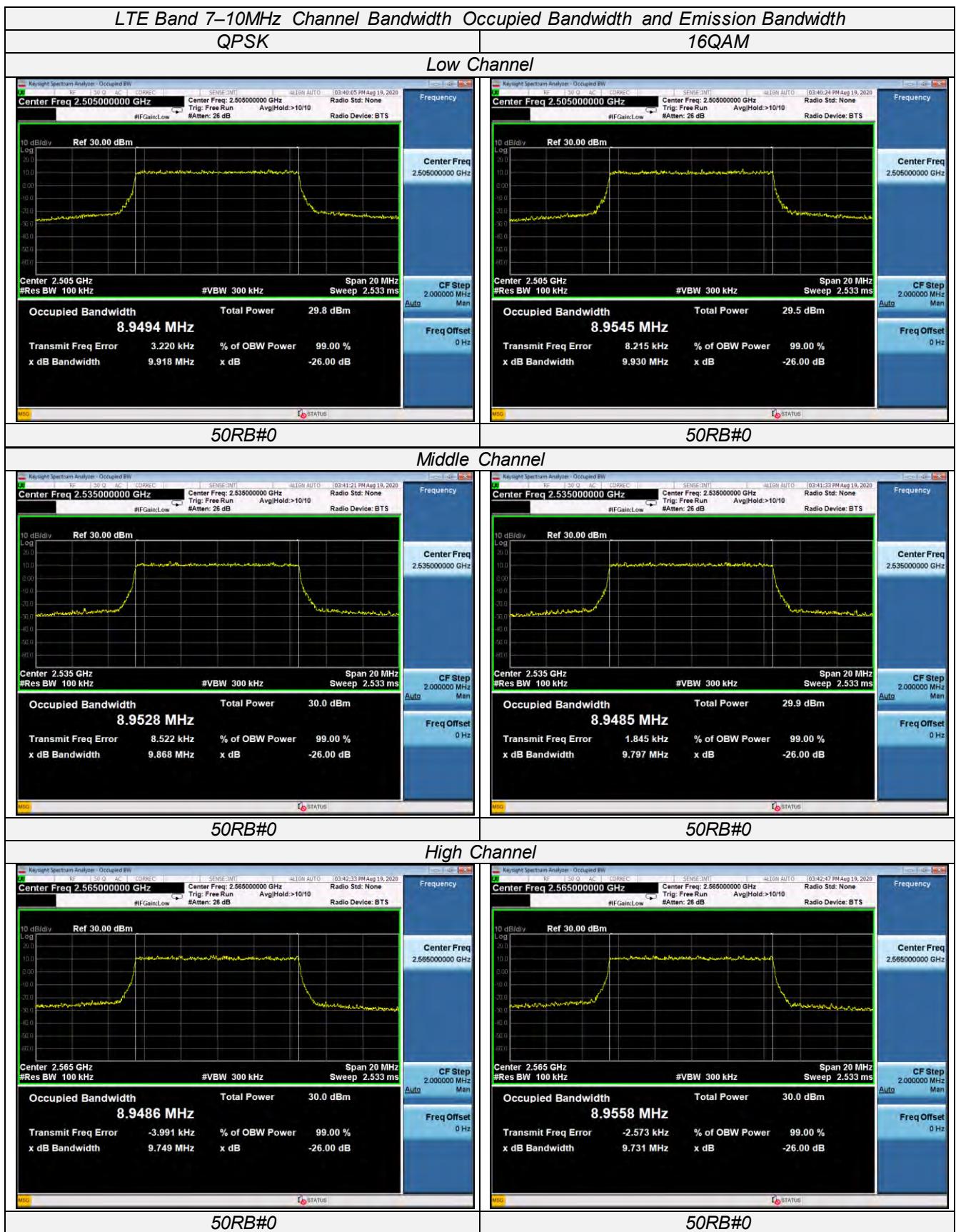
x dB Bandwidth: 4.968 MHz

% of OBW Power: 99.00 %

x dB: -26.00 dB

25RB#0

25RB#0



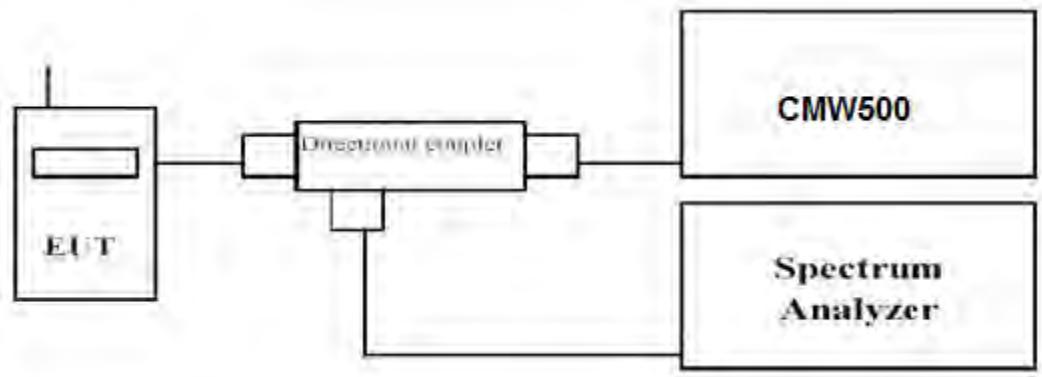


4.4 Band Edge compliance

LIMIT

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 $40 + 10 \log P \text{ dB}$ (-10 dBm , 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge, $43 + 10 \log P \text{ dB}$ (-13 dBm , 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge, and $55 + 10 \log P \text{ dB}$ (-25 dBm , 3 nW) on all frequencies more than 20 MHz from the channel edge, where XMHz is the greater of 6 MHz or the actual emission bandwidth (26 dB).

TEST CONFIGURATION



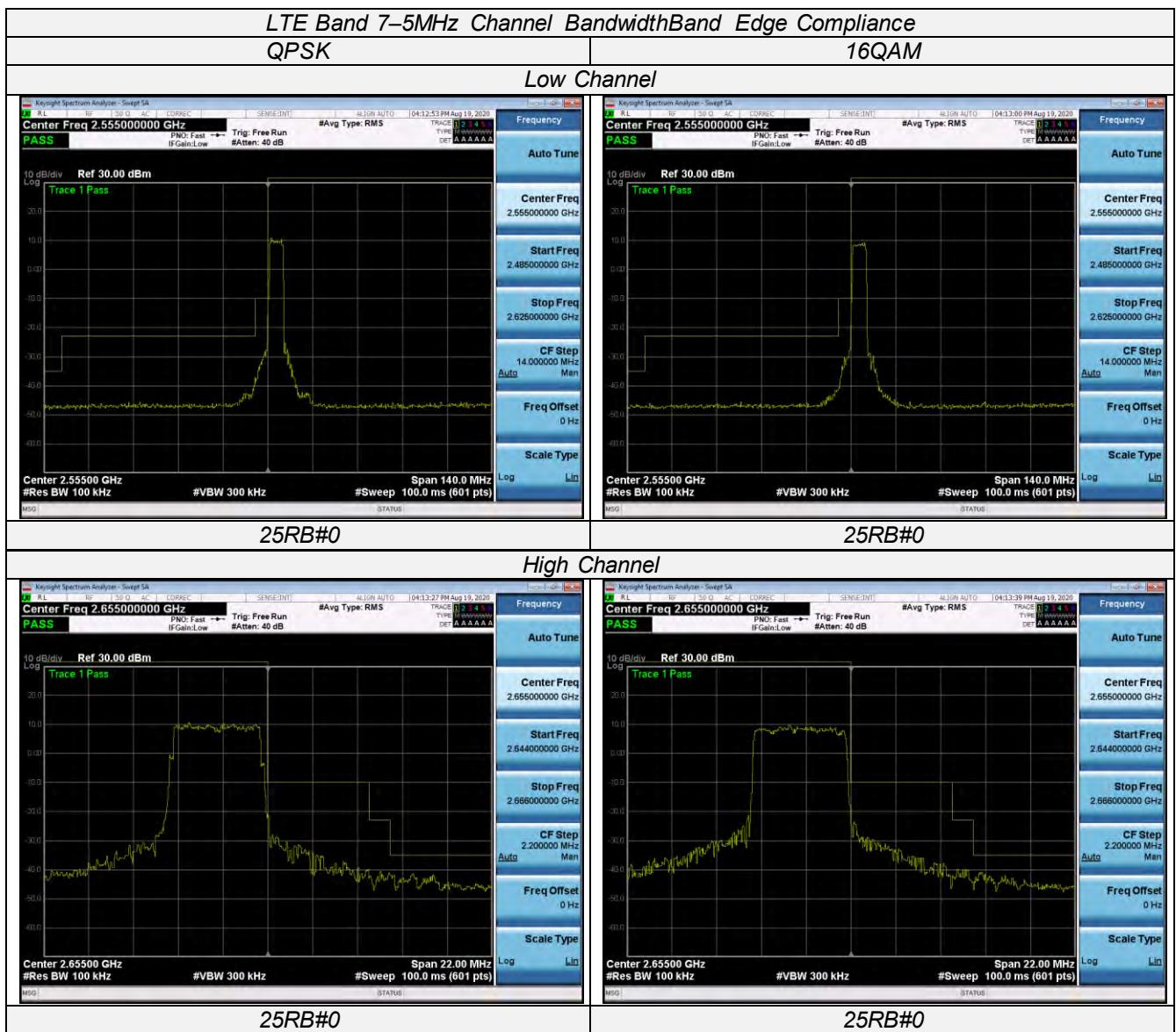
TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest and highest channels for each band and different modulation.
5. Measure Band edge using RMS (Average) detector by spectrum
6. Set RBW = 100 kHz, VBW=300 kHz, Span=50MHz Peak Detector.

TEST RESULTS

Remark:

1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 7; recorded worst case for each Channel Bandwidth of LTE Band 7.







The figure displays four screenshots of the Keysight Spectrum Analyzer software interface, arranged in a 2x2 grid. Each screenshot shows a spectrum plot with a yellow trace labeled 'Trace 1 Pass' against a black background. The plots are for different LTE channel bandwidths and edge compliance modes.

- Top Left (Low Channel):** Shows a spectrum from 2.485000000 GHz to 2.625000000 GHz. The plot title is 'Center Freq 2.555000000 GHz'. The status bar indicates 'PASS'. The plot shows a sharp peak at the center frequency with a small side lobe.
- Top Right (Low Channel):** Shows a spectrum from 2.485000000 GHz to 2.625000000 GHz. The plot title is 'Center Freq 2.555000000 GHz'. The status bar indicates 'PASS'. The plot shows a sharp peak at the center frequency with a small side lobe.
- Bottom Left (75RB#0):** Shows a spectrum from 2.635720000 GHz to 2.674280000 GHz. The plot title is 'Center Freq 2.655000000 GHz'. The status bar indicates 'PASS'. The plot shows a sharp peak at the center frequency with a small side lobe.
- Bottom Right (75RB#0):** Shows a spectrum from 2.635740000 GHz to 2.674260000 GHz. The plot title is 'Center Freq 2.655000000 GHz'. The status bar indicates 'PASS'. The plot shows a sharp peak at the center frequency with a small side lobe.

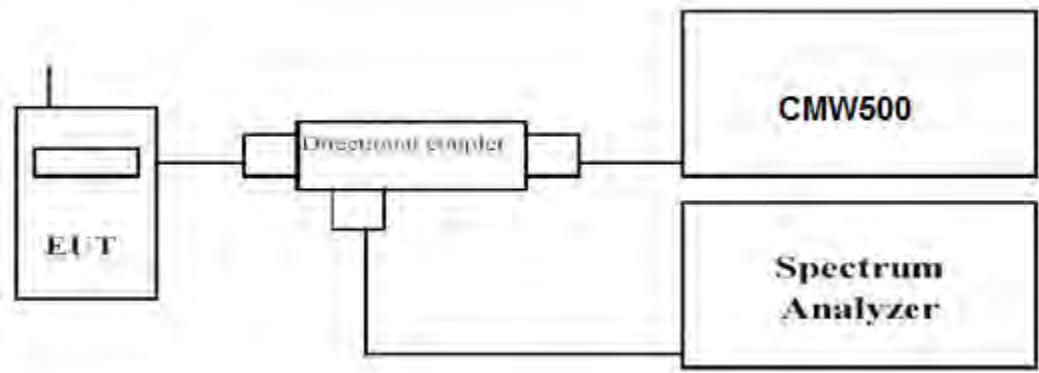
The software interface includes various controls and status indicators on the left and right sides of each plot window.

4.5 Spurious Emission on Antenna Port

LIMIT

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 $40 + 10 \log P \text{ dB}$ (-10 dBm , 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge, $43 + 10 \log P \text{ dB}$ (-13 dBm , 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge, and $55 + 10 \log P \text{ dB}$ (-25 dBm , 3 nW) on all frequencies more than 20 MHz from the channel edge, where X MHz is the greater of 6 MHz or the actual emission bandwidth (26 dB).

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

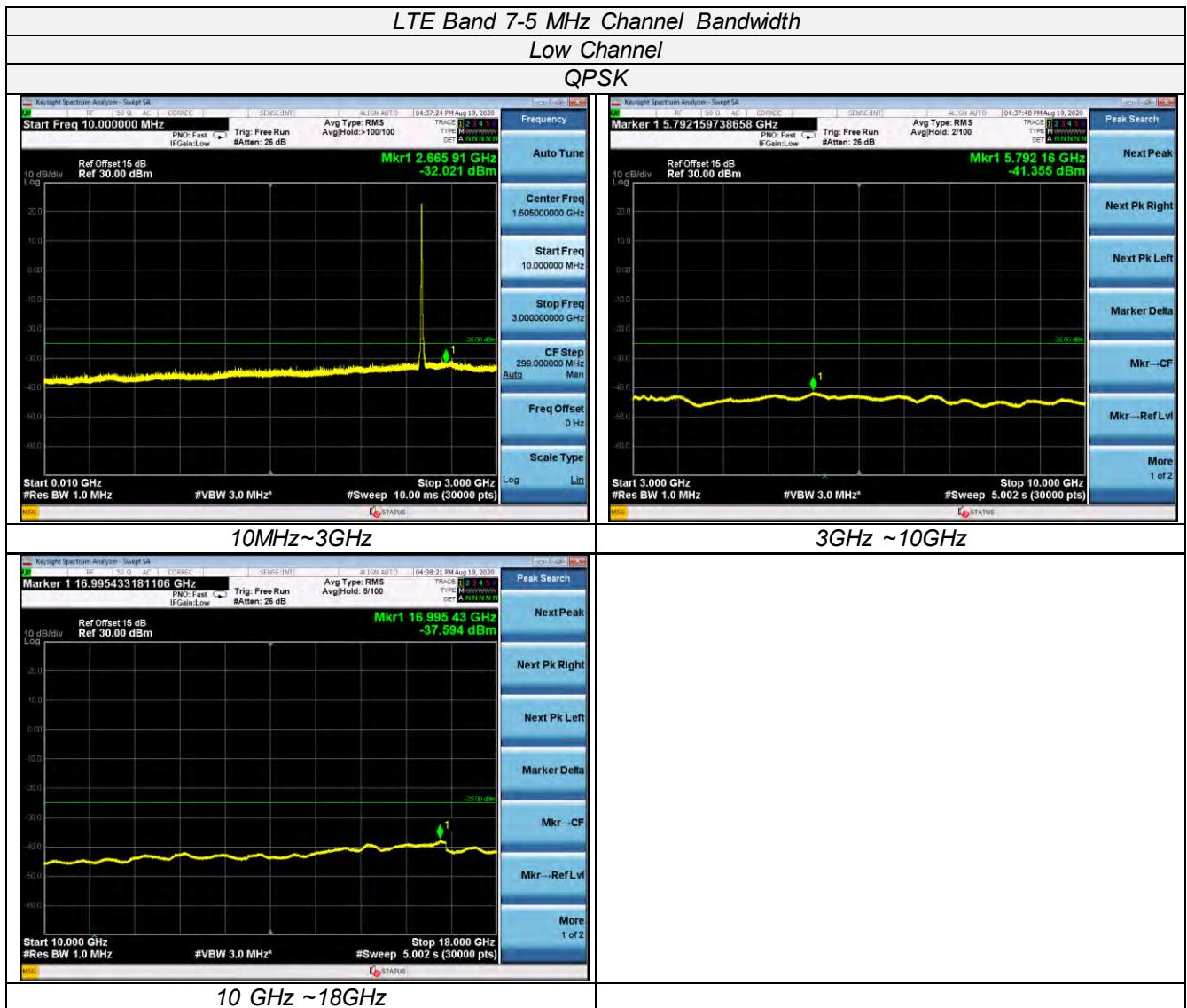
- a. Place the EUT on a bench and set it in transmitting mode.
- b. Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.
- c. EUT Communicate with CMW500, then select a channel for testing.
- d. Add a correction factor to the display of spectrum, and then test.
- e. The resolution bandwidth of the spectrum analyzer was set sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.
- f. Please refer to following tables for test antenna conducted emissions.

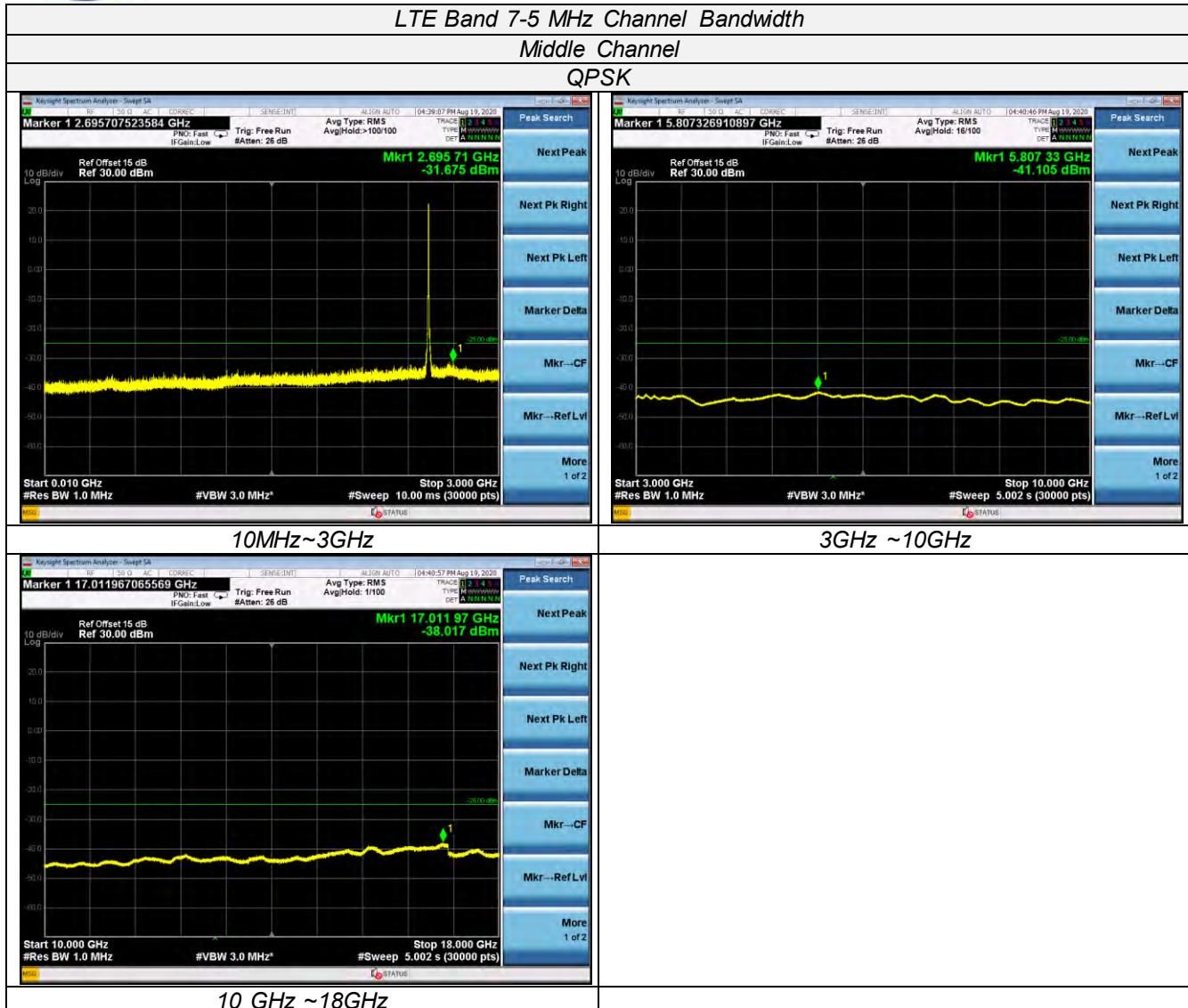
Working Frequency	Sub range (GHz)	RBW	VBW	Sweep time (s)
LTE Band 7	0.01~18	1 MHz	3 MHz	Auto

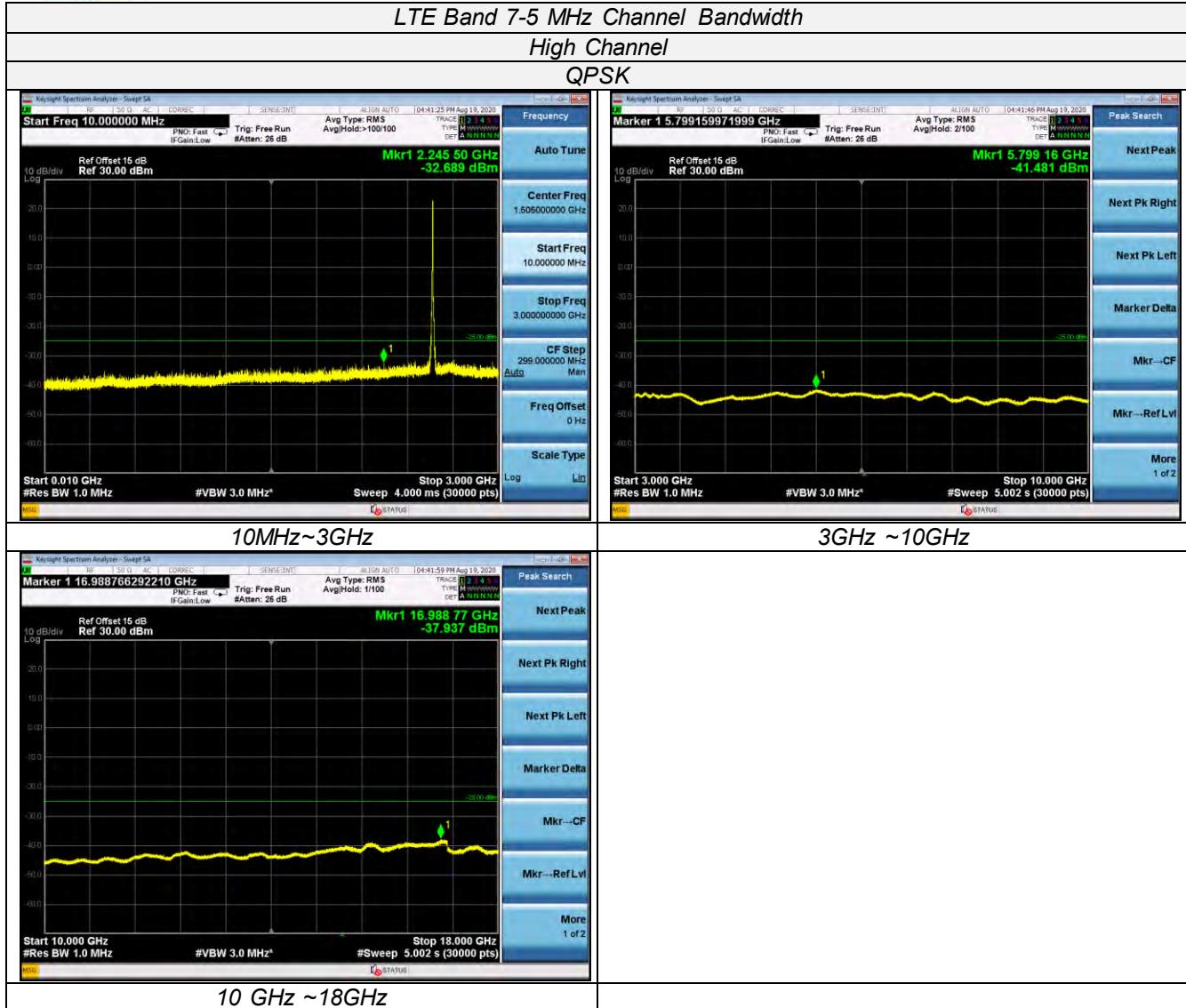
TEST RESULTS

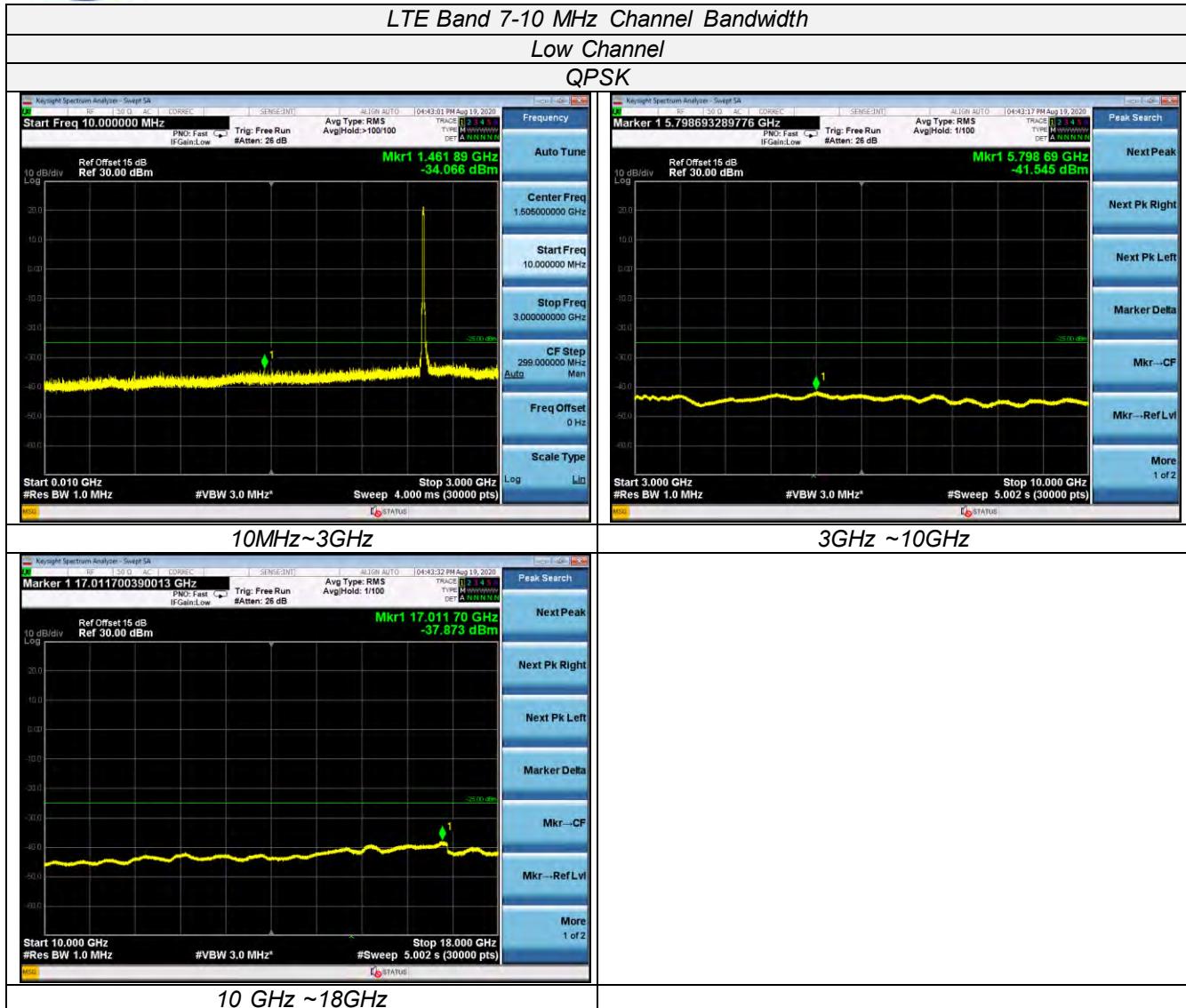
Remark:

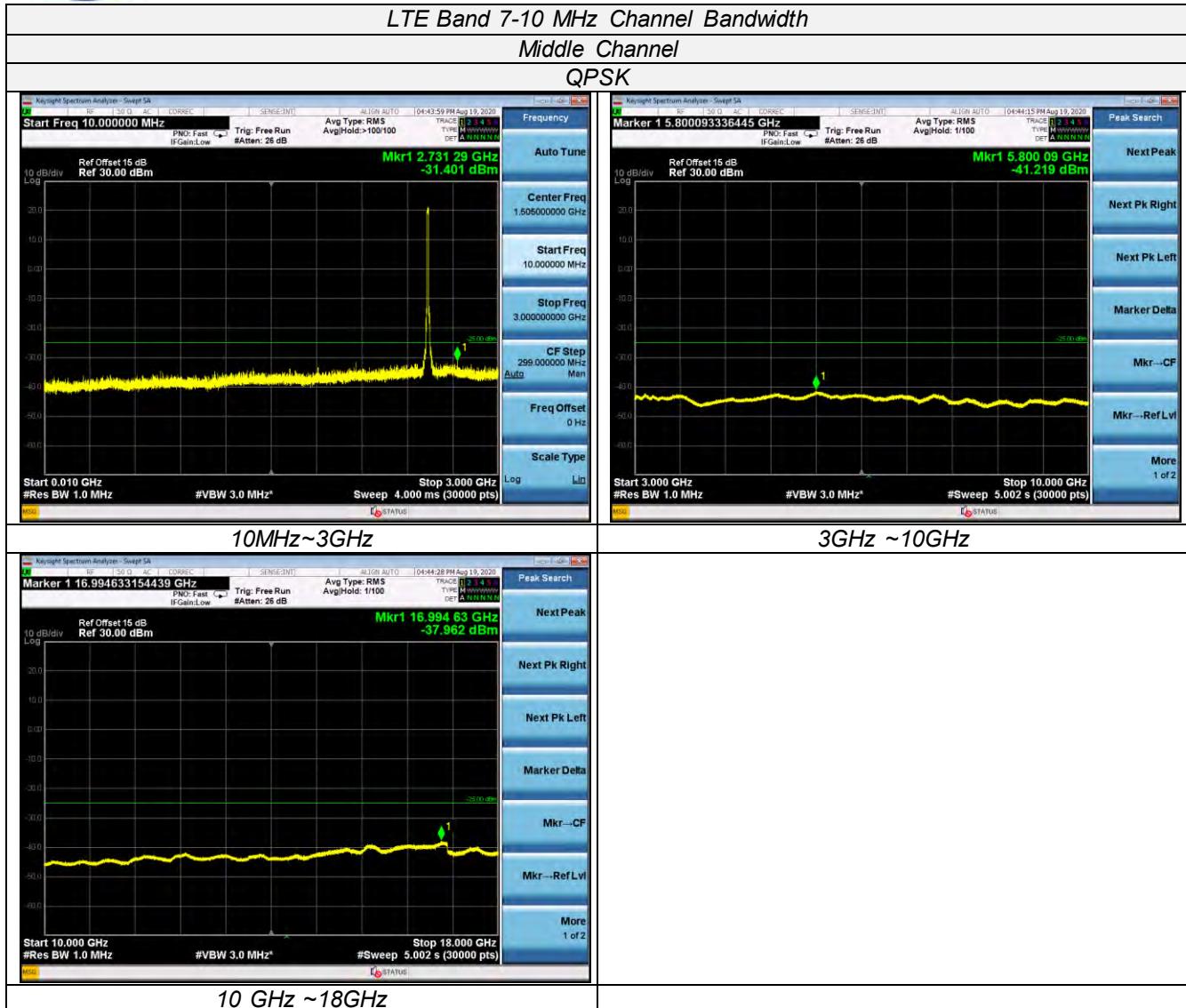
1. We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 7; recorded worst case at the QPSK Mode for each Channel Bandwidth of LTE Band 7

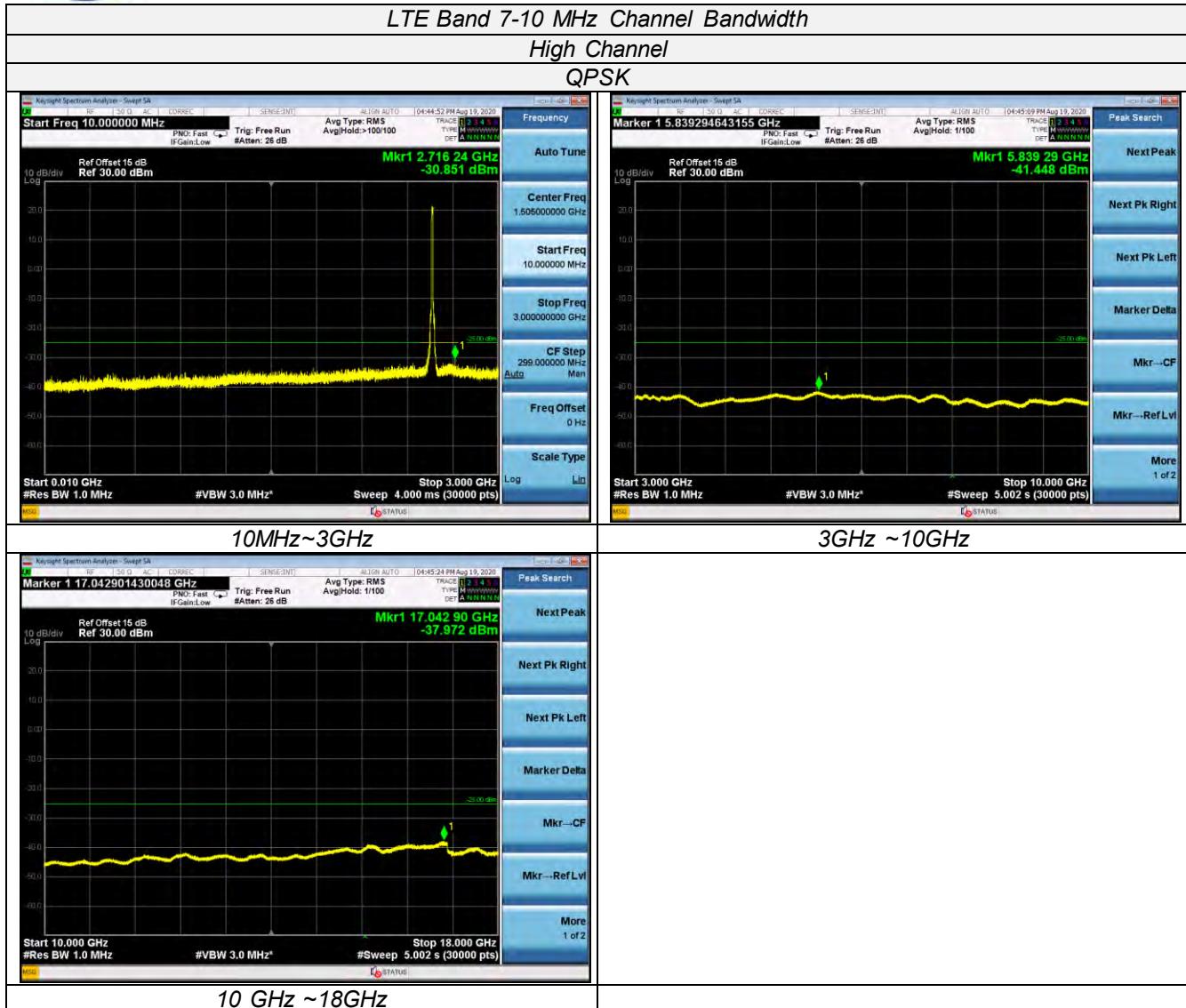


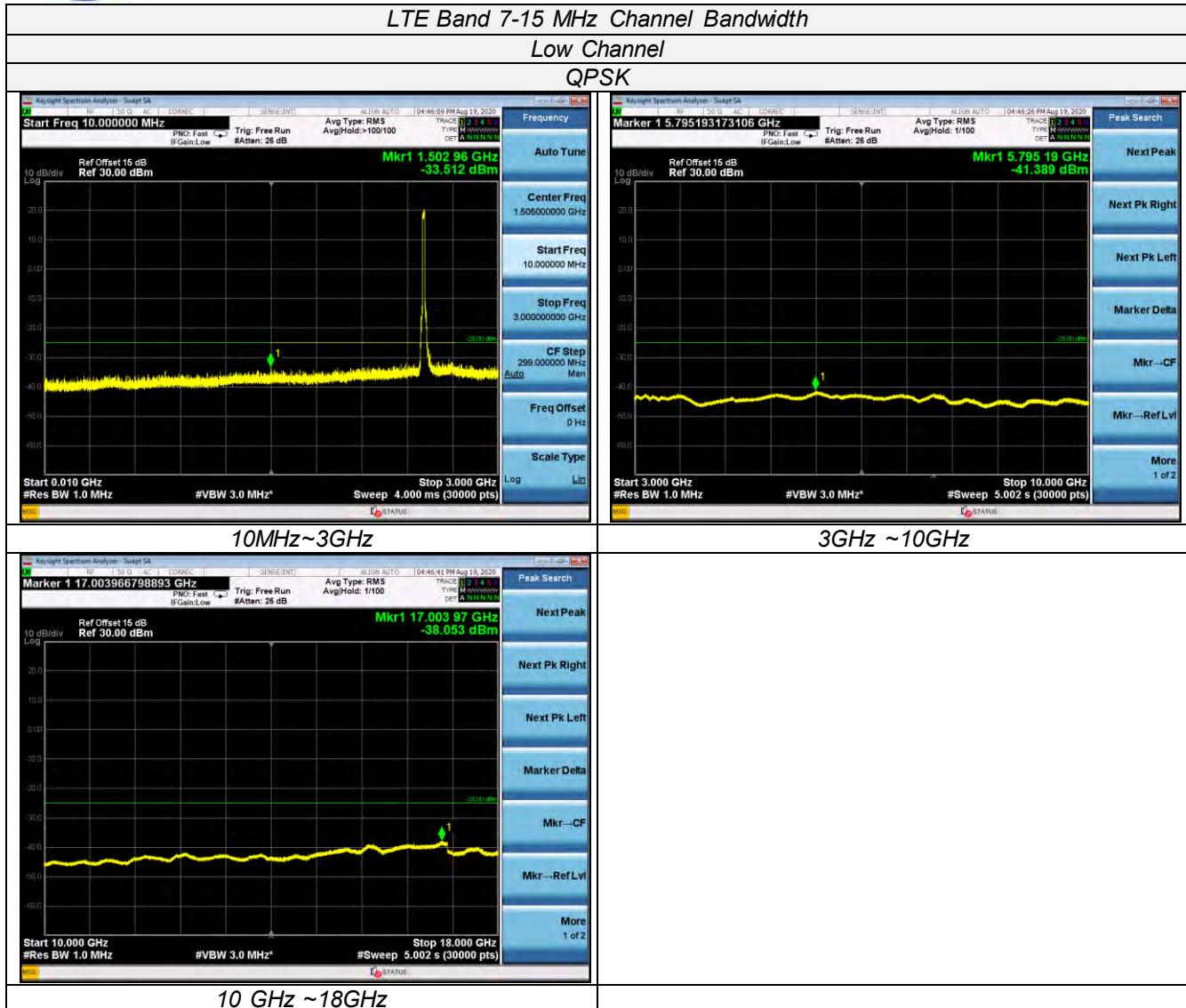


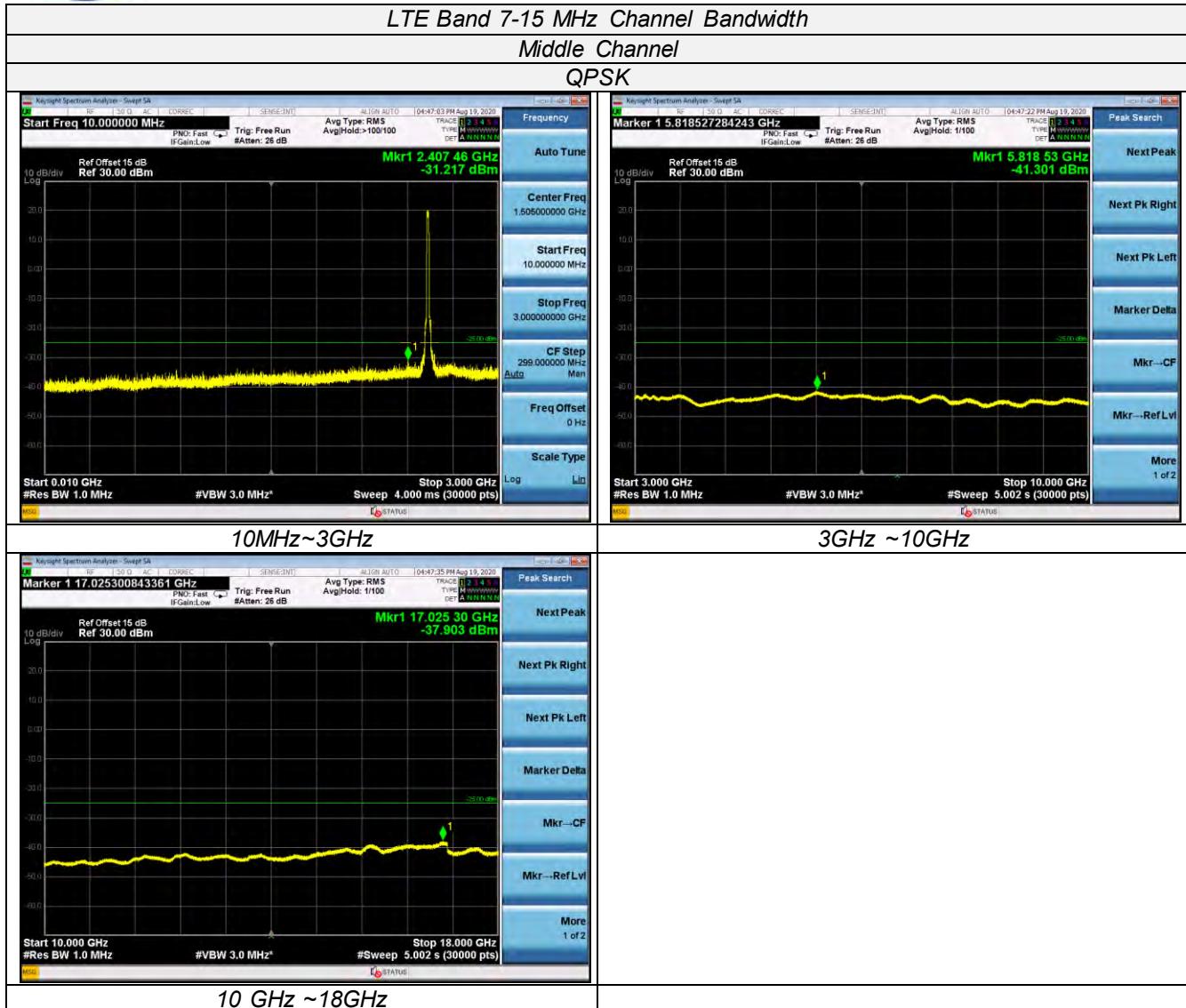


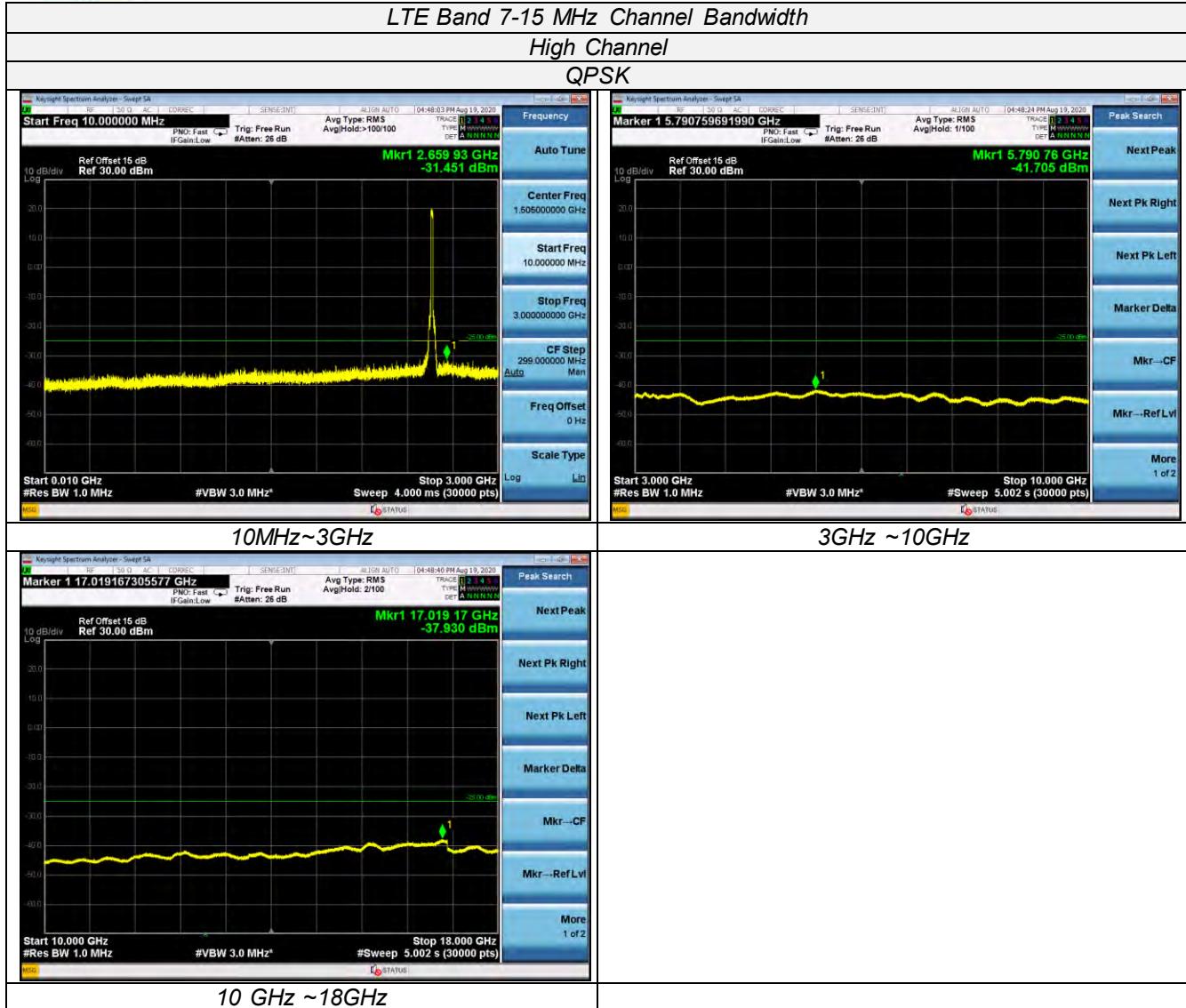










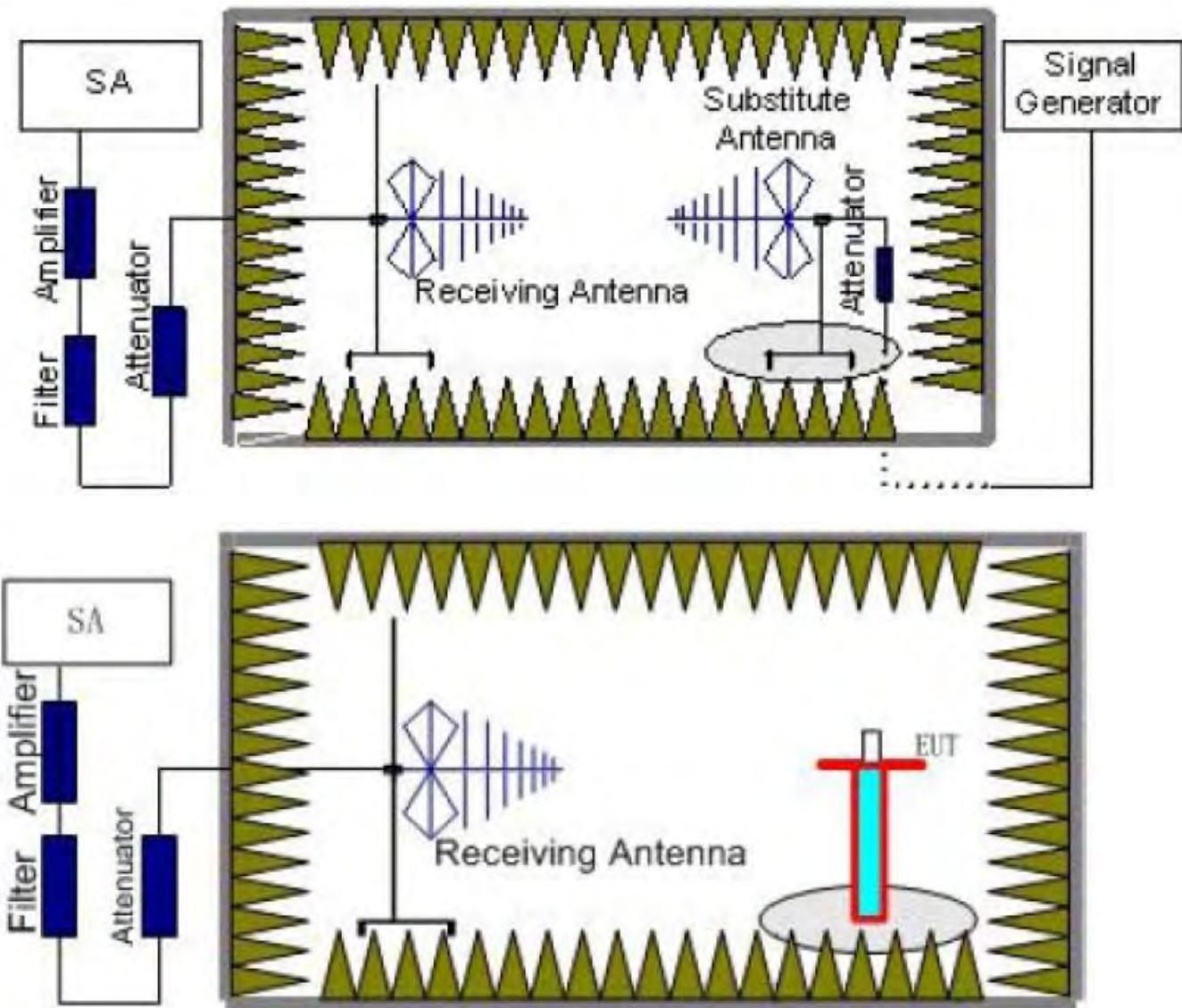


4.6 Radiated Spurious Emission

TEST APPLICABLE

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 $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge, $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge, and $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than 20 MHz from the channel edge, where X MHz is the greater of 6 MHz or the actual emission bandwidth (26 dB).

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

- a. The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b. The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c. The output of the test antenna shall be connected to the measuring receiver.
- d. The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.



- e. The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f. The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g. The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- h. The maximum signal level detected by the measuring receiver shall be noted.
- i. The transmitter shall be replaced by a substitution antenna.
- j. The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- k. The substitution antenna shall be connected to a calibrated signal generator.
- l. If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- m. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- n. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- o. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- p. The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- q. Test site anechoic chamber refer to ANSI C63.4:2014.

Frequency	Channel	Frequency Range	Verdict
LTE Band 7	Low	30MHz -26.5GHz	PASS
	Middle	30MHz -26.5GHz	PASS
	High	30MHz -26.5GHz	PASS

Radiated Measurement:

Remark:

1. We measured all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 7; recorded worst case for each Channel Bandwidth of LTE Band 7.
2. $EIRP = P_s(\text{dBm}) - P_{cl}(\text{dB}) + G_a(\text{dB})$
3. Not recorded other points means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
4. Margin = Limit – EIRP

LTE Band 7_Channel Bandwidth 5MHz_QPSK_1RB#0

Frequency (MHz)	P _S (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005	-43.50	4.39	3	12.34	-35.55	-25	10.55	H
7507.5	-52.19	5.31	3	13.52	-43.98	-25	18.98	H
5005	-46.18	4.39	3	12.34	-38.23	-25	13.23	V
7507.5	-47.92	5.31	3	13.52	-39.71	-25	14.71	V

LTE Band 7_Channel Bandwidth 5MHz_QPSK_1RB#0

Frequency (MHz)	P _S (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070	-43.55	4.41	3	12.34	-35.62	-25	10.62	H
7605	-53.18	5.38	3	13.58	-44.98	-25	19.98	H
5070	-45.75	4.41	3	12.34	-37.82	-25	12.82	V
7605	-50.90	5.38	3	13.58	-42.70	-25	17.70	V



LTE Band 7 Channel Bandwidth 5MHz_QPSK_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135	-46.19	4.45	3	12.45	-38.19	-25	13.19	H
7702.5	-52.02	5.47	3	13.66	-43.83	-25	18.83	H
5135	-48.74	4.45	3	12.45	-40.74	-25	15.74	V
7702.5	-49.29	5.48	3	13.66	-41.11	-25	16.11	V

LTE Band 7 Channel Bandwidth 10MHz_QPSK_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5010	-44.16	4.39	3	12.34	-36.21	-25	11.21	H
7515	-51.34	5.31	3	13.52	-43.13	-25	18.13	H
5010	-48.94	4.39	3	12.34	-40.99	-25	15.99	V
7515	-51.55	5.31	3	13.52	-43.34	-25	18.34	V

LTE Band 7 Channel Bandwidth 10MHz_QPSK_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070	-44.43	4.39	3	12.34	-36.48	-25	11.48	H
7605	-47.93	5.31	3	13.52	-39.72	-25	14.72	H
5070	-48.17	4.39	3	12.34	-40.22	-25	15.22	V
7605	-49.53	5.31	3	13.52	-41.32	-25	16.32	V

LTE Band 7 Channel Bandwidth 10MHz_QPSK_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5130	-44.14	4.45	3	12.45	-36.14	-25	11.14	H
7695	-48.72	5.47	3	13.66	-40.53	-25	15.53	H
5130	-43.69	4.45	3	12.45	-35.69	-25	10.69	V
7695	-54.45	5.48	3	13.66	-46.27	-25	21.27	V

LTE Band 7 Channel Bandwidth 15MHz_QPSK_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5015	-44.47	4.39	3	12.34	-36.52	-25	11.52	H
7522.5	-49.19	5.31	3	13.52	-40.98	-25	15.98	H
5015	-45.28	4.39	3	12.34	-37.33	-25	12.33	V
7522.5	-48.03	5.31	3	13.52	-39.82	-25	14.82	V

LTE Band 7 Channel Bandwidth 15MHz_QPSK_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070	-46.57	4.41	3	12.34	-38.64	-25	13.64	H
7605	-51.64	5.38	3	13.58	-43.44	-25	18.44	H
5070	-47.08	4.41	3	12.34	-39.15	-25	14.15	V
7605	-49.53	5.38	3	13.58	-41.33	-25	16.33	V

LTE Band 7 Channel Bandwidth 15MHz_QPSK_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5015	-46.27	4.45	3	12.45	-38.27	-25	13.27	H
7522.5	-52.30	5.47	3	13.66	-44.11	-25	19.11	H
5015	-49.22	4.45	3	12.45	-41.22	-25	16.22	V
7522.5	-51.30	5.48	3	13.66	-43.12	-25	18.12	V



LTE Band 7 Channel Bandwidth 5MHz_16QAM_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5005	-46.49	4.39	3	12.34	-38.54	-25	13.54	H
7507.5	-53.03	5.31	3	13.52	-44.82	-25	19.82	H
5005	-48.07	4.39	3	12.34	-40.12	-25	15.12	V
7507.5	-51.00	5.31	3	13.52	-42.79	-25	17.79	V

LTE Band 7 Channel Bandwidth 5MHz_16QAM_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070	-43.35	4.41	3	12.34	-35.42	-25	10.42	H
7605	-49.07	5.38	3	13.58	-40.87	-25	15.87	H
5070	-46.03	4.41	3	12.34	-38.10	-25	13.10	V
7605	-53.98	5.38	3	13.58	-45.78	-25	20.78	V

LTE Band 7 Channel Bandwidth 5MHz_16QAM_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5135	-45.52	4.45	3.00	12.45	-37.52	-25.00	12.52	H
7702.5	-49.71	5.47	3.00	13.66	-41.52	-25.00	16.52	H
5135	-43.87	4.45	3.00	12.45	-35.87	-25.00	10.87	V
7702.5	-51.94	5.48	3.00	13.66	-43.76	-25.00	18.76	V

LTE Band 7 Channel Bandwidth 10MHz_16QAM_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5010	-42.90	4.39	3	12.34	-34.95	-25	9.95	H
7515	-50.45	5.31	3	13.52	-42.24	-25	17.24	H
5010	-42.98	4.39	3	12.34	-35.03	-25	10.03	V
7515	-52.39	5.31	3	13.52	-44.18	-25	19.18	V

LTE Band 7 Channel Bandwidth 10MHz_16QAM_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070	-44.42	4.41	3	12.34	-36.49	-25	11.49	H
7605	-50.94	5.38	3	13.58	-42.74	-25	17.74	H
5070	-43.25	4.41	3	12.34	-35.32	-25	10.32	V
7605	-52.68	5.38	3	13.58	-44.48	-25	19.48	V

LTE Band 7 Channel Bandwidth 10MHz_16QAM_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5130	-42.44	4.45	3	12.45	-34.44	-25	9.44	H
7695	-48.33	5.47	3	13.66	-40.14	-25	15.14	H
5130	-43.25	4.45	3	12.45	-35.25	-25	10.25	V
7695	-51.81	5.48	3	13.66	-43.63	-25	18.63	V

LTE Band 7 Channel Bandwidth 15MHz_16QAM_1RB#0

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5015	-42.98	4.39	3	12.34	-35.03	-25	10.03	H
7522.5	-50.12	5.31	3	13.52	-41.91	-25	16.91	H
5015	-45.39	4.39	3	12.34	-37.44	-25	12.44	V
7522.5	-52.16	5.31	3	13.52	-43.95	-25	18.95	V

*LTE Band 7 Channel Bandwidth 15MHz_16QAM_1RB#0*

Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5070	-41.39	4.41	3	12.34	-33.46	-25	8.46	H
7605	-47.73	5.38	3	13.58	-39.53	-25	14.53	H
5070	-43.28	4.41	3	12.34	-35.35	-25	10.35	V
7605	-49.12	5.38	3	13.58	-40.92	-25	15.92	V

LTE Band 7 Channel Bandwidth 15MHz_16QAM_1RB#0

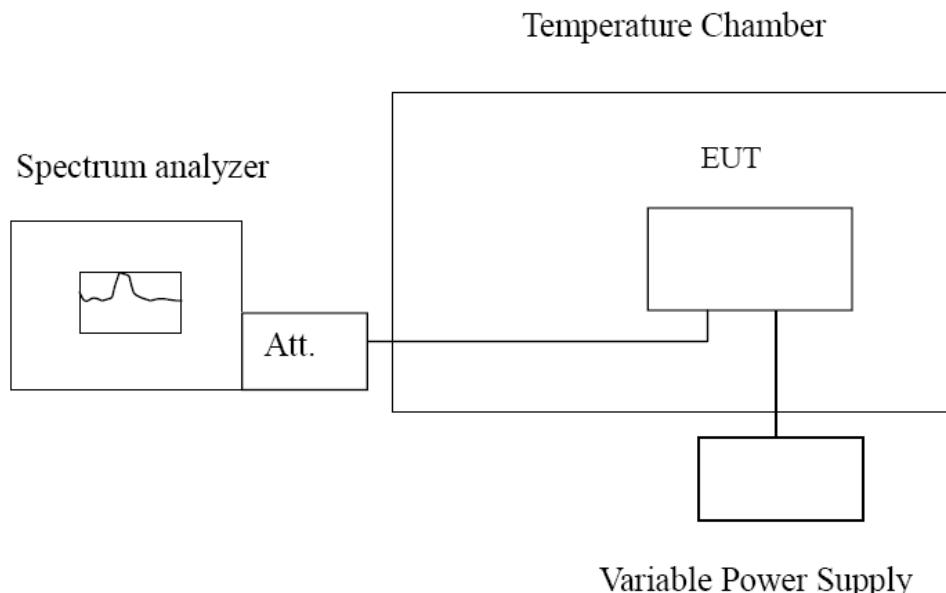
Frequency (MHz)	Ps (dBm)	P _{cl} (dB)	Diatance	G _a Antenna Gain(dB)	Peak EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarization
5015	-46.52	4.45	3	12.45	-38.52	-25	13.52	H
7522.5	-50.29	5.47	3	13.66	-42.10	-25	17.10	H
5015	-49.12	4.45	3	12.45	-41.12	-25	16.12	V
7522.5	-49.93	5.48	3	13.66	-41.75	-25	16.75	V

4.7 Frequency Stability

LIMIT

According to §2.1055 requirement, the frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation and should not exceed 2.5ppm.

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Frequency Stability Under Temperature Variations:

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on middle channel for LTE band 41, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements.
5. Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1.5 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50°C.
7. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 °C increments from +50°C to -30°C. Allow at least 1.5 hours at each temperature, unpowered, before making measurements
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.



TEST RESULTS

Remark:

1. We tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE Band 7; recorded worst case.

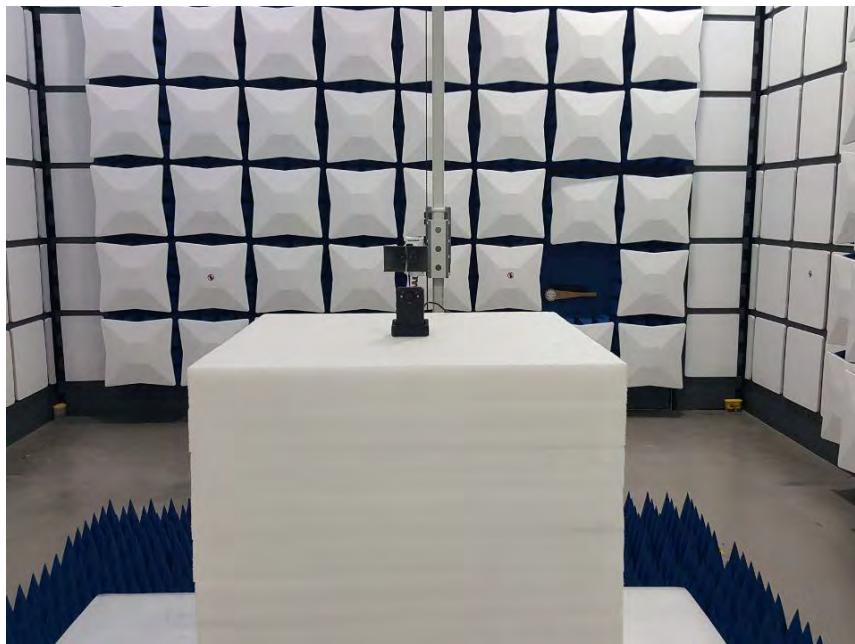
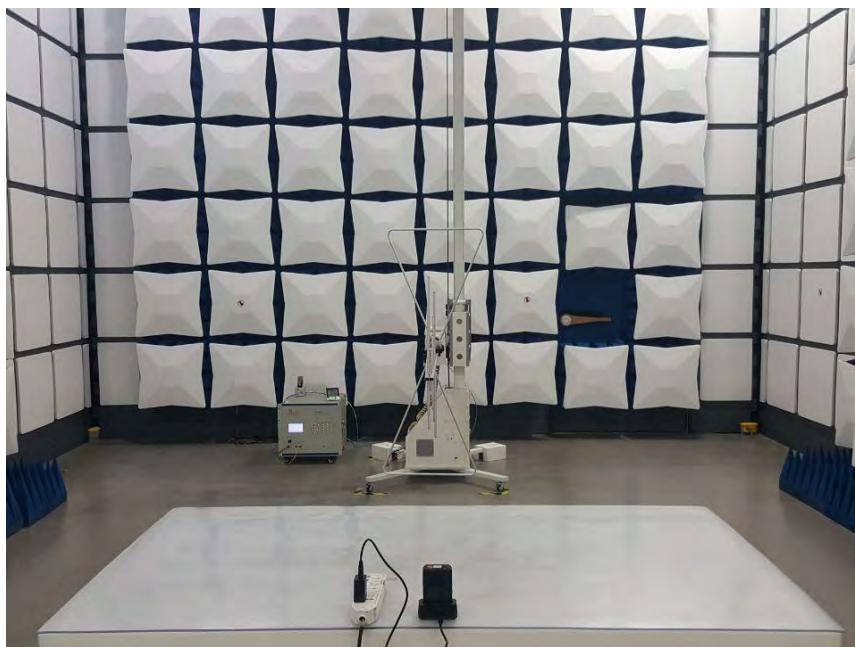
LTE Band 7_5MHz bandwidth_QPSK_1RB#0 (worst case of all bandwidths)

LTE Band 7-low channel					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.40	20	3.91	0.001564	2.50	PASS
3.70	20	-6.34	-0.002532	2.50	PASS
4.20	20	-11.87	-0.004741	2.50	PASS
3.70	-30	10.72	0.004284	2.50	PASS
3.70	-20	14.62	0.005842	2.50	PASS
3.70	-10	11.44	0.004570	2.50	PASS
3.70	0	-7.35	-0.002936	2.50	PASS
3.70	10	4.09	0.001636	2.50	PASS
3.70	20	-8.18	-0.003268	2.50	PASS
3.70	30	-10.84	-0.004330	2.50	PASS
3.70	40	6.87	0.002747	2.50	PASS
3.70	50	14.54	0.005810	2.50	PASS

LTE Band 7_5MHz bandwidth_16QAM_1RB#0 (worst case of all bandwidths)

LTE Band 7-low channel					
DC Power	Temperature (°C)	Frequency error(Hz)	Frequency error(ppm)	Limit (ppm)	Verdict
3.40	20	12.30	0.004915	2.50	PASS
3.70	20	-11.19	-0.004470	2.50	PASS
4.20	20	-3.39	-0.001354	2.50	PASS
3.70	-30	5.81	0.002322	2.50	PASS
3.70	-20	9.16	0.003661	2.50	PASS
3.70	-10	1.83	0.000731	2.50	PASS
3.70	0	-12.49	-0.004991	2.50	PASS
3.70	10	1.05	0.000421	2.50	PASS
3.70	20	-11.50	-0.004594	2.50	PASS
3.70	30	-16.90	-0.006755	2.50	PASS
3.70	40	6.27	0.002506	2.50	PASS
3.70	50	7.67	0.003064	2.50	PASS

5 Test Setup Photos of the EUT





6 External and Internal Photos of the EUT

Please refer to the report No.: HK2008072128-1E

*******End of Report*******