FCC Test Report

(PART 27)

Report No.: RF170220C11C-8

FCC ID: NM8601HT

Test Model: 601HT

Received Date: Feb. 20, 2017

Test Date: Mar. 15, 2017 ~ Mar. 18, 2017

Issued Date: May 08, 2017

Applicant: HTC Corporation

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Release Control Record

Issue No.	Description	Date Issued
RF170220C11-8	Original Release	Apr. 06, 2017

1 Certificate of Conformity

Product: Smartphone

Brand: HTC

Test Model: 601HT

Sample Status: Production Unit

Applicant: HTC Corporation

Test Date: Mar. 15, 2017 ~ Mar. 18, 2017

Standards: FCC Part 27, Subpart C, M

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Gina Liu , **Date:** Apr. 06, 2017

Gina Liu / Specialist

Approved by : David Huang , **Date:** Apr. 06, 2017

David Huang / Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 27 & Part 2			
FCC Clause	**Test Item**	**Result**	**Remarks**
2.1046 27.50(h)	Equivalent Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1055 27.54	Frequency Stability	Pass	Meet the requirement of limit.
2.1049	Occupied Bandwidth	Pass	Meet the requirement of limit.
--	Peak to Average Ratio	Pass	Meet the requirement of limit.
2.1051 27.53(l)	Band Edge Measurements	Pass	Meet the requirement of limit.
2.1051 27.53(m)	Conducted Spurious Emissions	Pass	Meet the requirement of limit.
2.1053 27.53(m)	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -17.90 dB at 5360 MHz.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Test Site and Instruments

Description & Manaufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Feb. 17, 2017	Feb. 16, 2018
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 16, 2016	Dec. 15, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 13, 2016	Dec. 12, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Dec. 26, 2016	Dec. 27, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Dec. 12, 2016	Dec. 13, 2017
Double Ridge Guide Horn Antenna EMCO	3115	5619	Dec. 15, 2016	Dec. 14, 2017
BILOG Antenna SCHWARZBECK	VULB 9168	9168-153	Dec. 13, 2016	Dec. 12, 2017
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier EMCI	EMC 012645	980115	Oct. 21, 2016	Oct. 20, 2017
Preamplifier EMCI	EMC 184045	980116	Oct. 21, 2016	Oct. 20, 2017
Preamplifier EMCI	EMC 330H	980112	Oct. 21, 2016	Oct. 20, 2017
Power Meter Anritsu	ML2495A	1232002	Sep. 08, 2016	Sep. 07, 2017
Power Sensor Anritsu	MA2411B	1207325	Sep. 08, 2016	Sep. 07, 2017
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 21, 2016	Oct. 20, 2017
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 21, 2016	Oct. 20, 2017
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 21, 2016	Oct. 20, 2017
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Radio Communication Analyzer	MT8820C	6201300640	Aug. 10, 2015	Aug. 09, 2017
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 02, 2016	Sep. 01, 2017
DC Power Supply Topward	33010D	807748	Oct. 25, 2016	Oct. 24, 2018
Digital Multimeter Fluke	87-III	70360742	Jul. 01, 2016	Jun. 30, 2017

Note:
1. The calibration interval of the above test instruments is 12 / 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 10.
3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.
4. The FCC Site Registration No. is 690701.
5. The IC Site Registration No. is IC7450F-10.

3 General Information

3.1 General Description of EUT

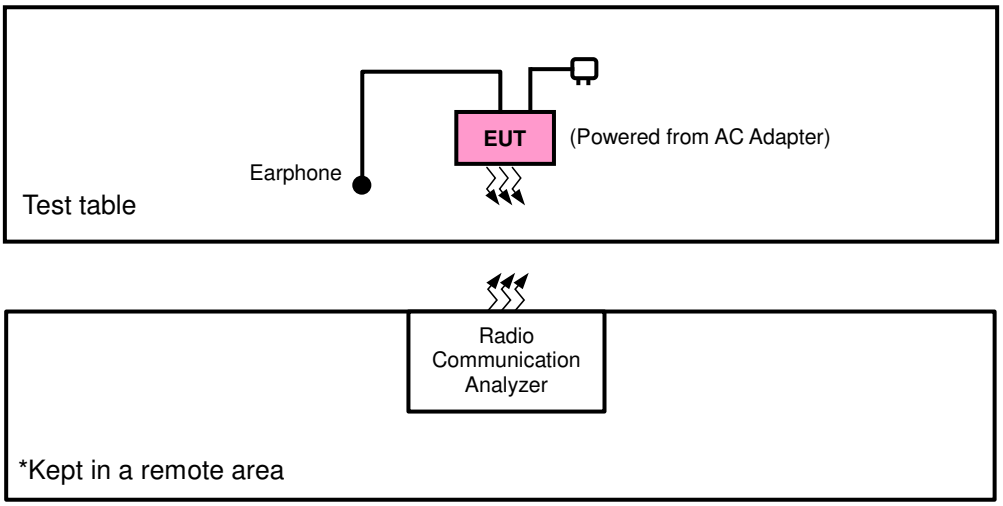
Product	Smartphone	
Brand	HTC	
Test Model	601HT	
Status of EUT	Production Unit	
Power Supply Rating	3.85 Vdc (Battery) 5 or 9 or 12 Vdc (Adapter or host equipment) 5 Vdc (Host equipment)	
Modulation Type	QPSK, 16QAM	
Frequency Range	LTE Band 41 (Channel Bandwidth: 5 MHz)	2498.5 ~ 2687.5 MHz
	LTE Band 41 (Channel Bandwidth: 10 MHz)	2501.0 ~ 2685.0 MHz
	LTE Band 41 (Channel Bandwidth: 15 MHz)	2503.5 ~ 2682.5 MHz
	LTE Band 41 (Channel Bandwidth: 20 MHz)	2506.0 ~ 2680.0 MHz
Max. EIRP Power	LTE Band 41 (Channel Bandwidth: 5 MHz)	384.68 mW
	LTE Band 41 (Channel Bandwidth: 10 MHz)	389.31 mW
	LTE Band 41 (Channel Bandwidth: 15 MHz)	390.66 mW
	LTE Band 41 (Channel Bandwidth: 20 MHz)	391.47 mW
Emission Designator	LTE Band 41 (Channel Bandwidth: 5 MHz)	4M49G7D
	LTE Band 41 (Channel Bandwidth: 10 MHz)	8M96W7D
	LTE Band 41 (Channel Bandwidth: 15 MHz)	13M4G7D
	LTE Band 41 (Channel Bandwidth: 20 MHz)	17M9G7D
Antenna Type	Fixed Internal Antenna	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

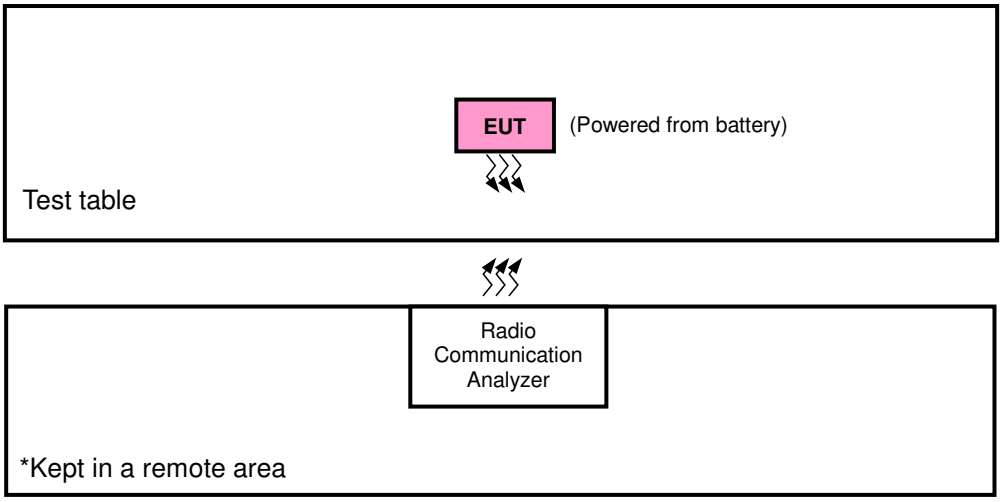
1. The EUT's accessories list refers to Ext. Pho.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Configuration of System under Test

<Radiated Emission Test>



<E.I.R.P. Test>



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Radio Communication Analyzer	Anritsu	MT8820C	6201300640	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item 1 acted as communication partner to transfer data.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis, and antenna ports.
The worst case was found when positioned as the table below. Following channel(s) was (were) selected for the final test as listed below:

Band	EIRP	Radiated Emission
LTE Band 41	X-plane	Z-axis

LTE Band 41

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	39675 to 41565	39675, 40620, 41565	5 MHz	QPSK, 16QAM	1 RB / 12 RB Offset
		39700 to 41540	39700, 40620, 41540	10 MHz	QPSK, 16QAM	1 RB / 24 RB Offset
		39725 to 41515	39725, 40620, 41515	15 MHz	QPSK, 16QAM	1 RB / 37 RB Offset
		39750 to 41490	39750, 40620, 41490	20 MHz	QPSK, 16QAM	1 RB / 50 RB Offset
-	Frequency Stability	39675 to 41565	39675, 41565	5 MHz	QPSK	1 RB / 12 RB Offset
		39700 to 41540	39700, 41540	10 MHz	QPSK	1 RB / 24 RB Offset
		39725 to 41515	39725, 41515	15 MHz	QPSK	1 RB / 37 RB Offset
		39750 to 41490	39750, 41490	20 MHz	QPSK	1 RB / 50 RB Offset
-	Occupied Bandwidth	39675 to 41565	39675, 40620, 41565	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15 MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20 MHz	QPSK, 16QAM	100 RB / 0 RB Offset
-	Peak to Average Ratio	39675 to 41565	39675, 40620, 41565	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		39700 to 41540	39700, 40620, 41540	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		39725 to 41515	39725, 40620, 41515	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
		39750 to 41490	39750, 40620, 41490	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset
-	Band Edge	39675 to 41565	39675, 41565	5 MHz	QPSK, 16QAM	25 RB / 0 RB Offset
		39700 to 41540	39700, 41540	10 MHz	QPSK, 16QAM	50 RB / 0 RB Offset
		39725 to 41515	39725, 41515	15 MHz	QPSK, 16QAM	75 RB / 0 RB Offset
		39750 to 41490	39750, 41490	20 MHz	QPSK, 16QAM	100 RB / 0 RB Offset
-	Conducted Emission	39675 to 41565	39675, 40620, 41565	5 MHz	QPSK	1 RB / 12 RB Offset
		39700 to 41540	39700, 40620, 41540	10 MHz	QPSK	1 RB / 24 RB Offset
		39725 to 41515	39725, 40620, 41515	15 MHz	QPSK	1 RB / 37 RB Offset
		39750 to 41490	39750, 40620, 41490	20 MHz	QPSK	1 RB / 50 RB Offset
-	Radiated Emission	39750 to 41490	39750, 40620, 41490	20 MHz	QPSK	1 RB / 50 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25 deg. C, 65 % RH	3.8 Vdc	Anson Lin
Frequency Stability	25 deg. C, 65 % RH	3.8 Vdc	Anson Lin
Occupied Bandwidth	25 deg. C, 65 % RH	3.8 Vdc	Anson Lin
Band Edge	25 deg. C, 65 % RH	3.8 Vdc	Anson Lin
Peak to Average Ratio	25 deg. C, 65 % RH	3.8 Vdc	Anson Lin
Condcudeted Emission	25 deg. C, 65 % RH	3.8 Vdc	Anson Lin
Radiated Emission	25 deg. C, 65 % RH	120 Vac, 60 Hz	Charles Hsiao

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2
FCC 47 CFR Part 27
KDB 971168 D01 Power Meas License Digital Systems v02r02
ANSI/TIA/EIA-603-D 2010

Note: All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

The radiated peak output power shall be according to the specific rule Part 27.50(h)(2) that “User stations are limited to 2 watts” and 27.50(i) specific that “Peak transmit power must be measure over any interval of continuous transmission using instrumentation calibration in terms of rms-equivalent voltage.”

4.1.2 Test Procedures

EIRP Measurement:

a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 10 MHz for LTE mode.

b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value“ of step b. Record the power level of S.G.

d. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

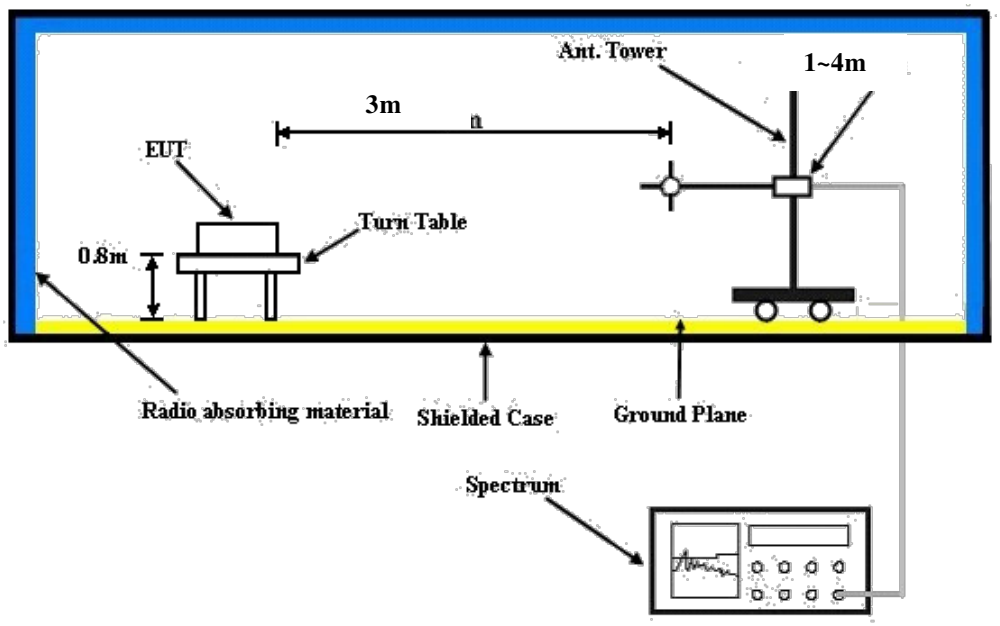
Conducted Power Measurement:

a. The EUT was set up for the maximum power with LTE link data modulation and link up with simulator.

b. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

4.1.3 Test Setup

EIRP / ERP Measurement:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

Conducted Power Measurement:

4.1.4 Test Results

Conducted Output Power (dBm)

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 39675	Mid Ch 40620	High Ch 41565		Low Ch 39675	Mid Ch 40620	High Ch 41565	
			2498.5 MHz	2593.0 MHz	2687.5 MHz		2498.5 MHz	2593.0 MHz	2687.5 MHz	
41 / 5M	1	0	22.99	23.02	22.15	0	22.04	22.07	21.20	1
	1	12	22.82	22.84	22.05	0	21.83	21.88	21.04	1
	1	24	22.77	22.78	21.89	0	21.80	21.81	20.96	1
	12	0	21.86	21.89	21.01	1	20.88	20.91	20.02	2
	12	6	21.78	21.81	20.89	1	20.77	20.84	19.87	2
	12	13	21.68	21.73	20.88	1	20.71	20.73	19.84	2
	25	0	21.80	21.86	20.93	1	20.86	20.89	19.95	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 39700	Mid Ch 40620	High Ch 41540		Low Ch 39700	Mid Ch 40620	High Ch 41540	
			2501.0 MHz	2593.0 MHz	2685.0 MHz		2501.0 MHz	2593.0 MHz	2685.0 MHz	
41 / 10M	1	0	23.05	23.07	22.23	0	22.09	22.11	21.28	1
	1	24	22.88	22.90	22.07	0	21.92	21.96	21.19	1
	1	49	22.82	22.85	22.00	0	21.88	21.90	21.01	1
	25	0	21.95	21.96	21.10	1	20.94	20.99	20.06	2
	25	12	21.88	21.92	21.07	1	20.87	20.91	19.99	2
	25	25	21.81	21.85	21.04	1	20.79	20.82	19.98	2
	50	0	21.93	21.95	21.14	1	20.94	20.97	20.03	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 39725	Mid Ch 40620	High Ch 41515		Low Ch 39725	Mid Ch 40620	High Ch 41515	
			2503.5 MHz	2593.0 MHz	2682.5 MHz		2503.5 MHz	2593.0 MHz	2682.5 MHz	
41 / 15M	1	0	23.10	23.12	22.33	0	22.14	22.17	21.34	1
	1	37	22.94	22.97	22.17	0	21.97	21.99	21.20	1
	1	74	22.89	22.92	22.13	0	21.91	21.95	21.06	1
	36	0	22.04	22.07	21.31	1	21.03	21.06	20.27	2
	36	19	21.99	22.02	21.19	1	20.96	21.00	20.17	2
	36	39	21.95	21.97	21.17	1	20.90	20.94	20.13	2
	75	0	22.04	22.05	21.32	1	21.02	21.05	20.18	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low Ch 39750	Mid Ch 40620	High Ch 41490		Low Ch 39750	Mid Ch 40620	High Ch 41490	
			2506.0 MHz	2593.0 MHz	2680.0 MHz		2506.0 MHz	2593.0 MHz	2680.0 MHz	
41 / 20M	1	0	23.15	**23.17**	22.41	0	22.19	**22.22**	21.44	1
	1	50	22.99	23.02	22.33	0	22.05	22.06	21.30	1
	1	99	22.97	22.98	22.21	0	21.98	22.02	21.18	1
	50	0	22.13	22.16	21.46	1	21.17	21.18	20.38	2
	50	25	22.09	22.12	21.34	1	21.10	21.13	20.29	2
	50	50	22.06	22.08	21.32	1	21.04	21.07	20.27	2
	100	0	22.12	22.15	21.39	1	21.12	21.17	20.41	2

EIRP Power (dBm)

LTE Band 41							
Channel Bandwidth: 5 MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**LVL (dBm)**	**Correction Factor (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**Polarization (H/V)**
X	39675	2498.5	-18.55	44.24	25.69	370.51	H
	40620	2593.0	-18.74	44.20	25.46	351.32	
	41565	2687.5	-18.95	44.80	25.85	384.68	
	39675	2498.5	-22.89	44.19	21.30	134.93	V
	40620	2593.0	-22.77	44.09	21.32	135.46	
	41565	2687.5	-22.62	44.50	21.88	154.13	
Channel Bandwidth: 5 MHz / 16QAM							
X	39675	2498.5	-19.36	44.24	24.88	307.47	H
	40620	2593.0	-19.52	44.20	24.68	293.56	
	41565	2687.5	-20.62	44.80	24.18	261.88	
	39675	2498.5	-23.56	44.19	20.63	115.64	V
	40620	2593.0	-23.59	44.09	20.50	112.15	
	41565	2687.5	-23.74	44.50	20.76	119.10	

LTE Band 41							
Channel Bandwidth: 10 MHz / QPSK							
Plane	**Channel**	**Frequency (MHz)**	**LVL (dBm)**	**Correction Factor (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**Polarization (H/V)**
X	39700	2501.0	-18.56	44.34	25.78	378.53	H
	40620	2593.0	-18.45	44.20	25.75	375.58	
	41540	2685.0	-18.82	44.72	25.90	389.31	
	39700	2501.0	-22.58	44.23	21.65	146.08	V
	40620	2593.0	-22.76	44.09	21.33	135.77	
	41540	2685.0	-22.81	44.41	21.60	144.41	
Channel Bandwidth: 10 MHz / 16QAM							
X	39700	2501.0	-19.56	44.34	24.78	300.68	H
	40620	2593.0	-19.47	44.20	24.73	296.96	
	41540	2685.0	-19.88	44.72	24.84	305.00	
	39700	2501.0	-23.74	44.23	20.49	111.84	V
	40620	2593.0	-23.69	44.09	20.40	109.60	
	41540	2685.0	-23.88	44.41	20.53	112.88	

LTE Band 41							
Channel Bandwidth: 15 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	39725	2503.5	-18.74	44.32	25.58	361.24	H
	40620	2593.0	-18.62	44.20	25.58	361.16	
	41515	2682.5	-18.93	44.85	25.92	390.66	
	39725	2503.5	-22.38	43.99	21.61	144.94	V
	40620	2593.0	-22.71	44.09	21.37	137.21	
	41515	2682.5	-22.59	44.51	21.92	155.60	
Channel Bandwidth: 15 MHz / 16QAM							
X	39725	2503.5	-19.47	44.32	24.85	305.35	H
	40620	2593.0	-19.36	44.20	24.84	304.58	
	41515	2682.5	-19.92	44.85	24.93	311.03	
	39725	2503.5	-23.65	43.99	20.34	108.19	V
	40620	2593.0	-23.58	44.09	20.51	112.41	
	41515	2682.5	-23.57	44.51	20.94	124.17	

LTE Band 41							
Channel Bandwidth: 20 MHz / QPSK							
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (mW)	Polarization (H/V)
X	39750	2506.0	-18.62	44.16	25.54	358.10	H
	40620	2593.0	-18.44	44.20	25.76	376.44	
	41490	2680.0	-18.88	44.81	25.93	391.47	
	39750	2506.0	-22.85	44.78	21.93	155.96	V
	40620	2593.0	-22.74	44.09	21.35	136.40	
	41490	2680.0	-22.84	44.72	21.88	154.17	
Channel Bandwidth: 20 MHz / 16QAM							
X	39750	2506.0	-19.44	44.16	24.72	296.48	H
	40620	2593.0	-19.54	44.20	24.66	292.21	
	41490	2680.0	-20.21	44.81	24.60	288.20	
	39750	2506.0	-23.88	44.78	20.90	123.03	V
	40620	2593.0	-24.02	44.09	20.07	101.58	
	41490	2680.0	-23.85	44.72	20.87	122.18	

4.2 Frequency Stability Measurement

4.2.1 Limits of Frequency Stabiliity Measurement

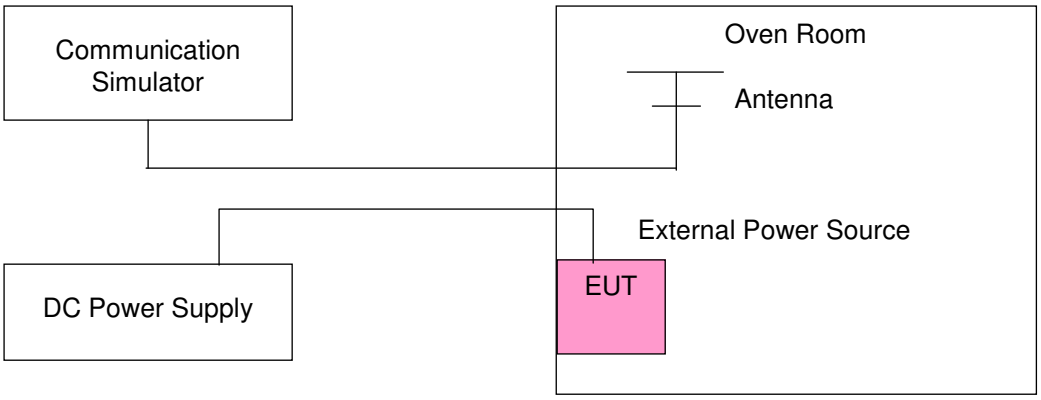
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

4.2.2 Test Procedure

a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5 ℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 Test Setup



4.2.4 Test Results

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.8	2498.500004	0.001	2687.500003	0.001	2.5
3.6	2498.500002	0.001	2687.500003	0.001	2.5
4.35	2498.500002	0.001	2687.500002	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 41				Limit (ppm)
	Channel Bandwidth: 5 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	2498.500001	0.000	2687.500002	0.001	2.5
-20	2498.500003	0.001	2687.500003	0.001	2.5
-10	2498.500002	0.001	2687.500001	0.001	2.5
0	2498.500004	0.001	2687.500004	0.001	2.5
10	2498.500003	0.001	2687.500002	0.001	2.5
20	2498.499998	-0.001	2687.499997	-0.001	2.5
30	2498.499999	0.000	2687.499998	-0.001	2.5
40	2498.499996	-0.002	2687.499998	-0.001	2.5
50	2498.499999	-0.001	2687.499997	-0.001	2.5
55	2498.499999	-0.001	2687.499997	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.8	2501.000003	0.001	2685.000002	0.001	2.5
3.6	2501.000004	0.002	2685.000002	0.001	2.5
4.35	2501.000003	0.001	2685.000003	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 41				Limit (ppm)
	Channel Bandwidth: 10 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	2501.000002	0.001	2685.000002	0.001	2.5
-20	2501.000002	0.001	2685.000003	0.001	2.5
-10	2501.000004	0.002	2685.000002	0.001	2.5
0	2501.000001	0.001	2685.000001	0.000	2.5
10	2501.000002	0.001	2685.000003	0.001	2.5
20	2500.999997	-0.001	2684.999998	-0.001	2.5
30	2500.999998	-0.001	2684.999997	-0.001	2.5
40	2500.999998	-0.001	2684.999998	-0.001	2.5
50	2500.999998	-0.001	2684.999999	0.000	2.5
55	2500.999999	0.000	2684.999999	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.8	2503.500004	0.001	2682.500002	0.001	2.5
3.6	2503.500002	0.001	2682.500002	0.001	2.5
4.35	2503.500003	0.001	2682.500002	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 41				Limit (ppm)
	Channel Bandwidth: 15 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	2503.500002	0.001	2682.500002	0.001	2.5
-20	2503.500002	0.001	2682.500004	0.001	2.5
-10	2503.500003	0.001	2682.500002	0.001	2.5
0	2503.500002	0.001	2682.500001	0.000	2.5
10	2503.500004	0.002	2682.500003	0.001	2.5
20	2503.499997	-0.001	2682.499997	-0.001	2.5
30	2503.499998	-0.001	2682.499997	-0.001	2.5
40	2503.499998	-0.001	2682.499998	-0.001	2.5
50	2503.499999	-0.001	2682.499998	-0.001	2.5
55	2503.499999	0.000	2682.499999	-0.001	2.5

Frequency Error vs. Voltage

Voltage (Volts)	LTE Band 41				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
3.8	2506.000004	0.002	2680.000004	0.001	2.5
3.6	2506.000002	0.001	2680.000001	0.000	2.5
4.35	2506.000002	0.001	2680.000003	0.001	2.5

Note: The applicant defined the normal working voltage of the battery is from 3.6 Vdc to 4.35 Vdc.

Frequency Error vs. Temperature

Temp. (℃)	LTE Band 41				Limit (ppm)
	Channel Bandwidth: 20 MHz				
	Low Channel		High Channel		
	Frequency (MHz)	Frequency Error (ppm)	Frequency (MHz)	Frequency Error (ppm)	
-30	2506.000002	0.001	2680.000004	0.001	2.5
-20	2506.000003	0.001	2680.000001	0.000	2.5
-10	2506.000003	0.001	2680.000002	0.001	2.5
0	2506.000002	0.001	2680.000003	0.001	2.5
10	2506.000002	0.001	2680.000002	0.001	2.5
20	2505.999997	-0.001	2679.999998	-0.001	2.5
30	2505.999998	-0.001	2679.999998	-0.001	2.5
40	2505.999998	-0.001	2679.999996	-0.001	2.5
50	2505.999997	-0.001	2679.999998	-0.001	2.5
55	2505.999996	-0.002	2679.999997	-0.001	2.5

4.3 Occupied Bandwidth Measurement

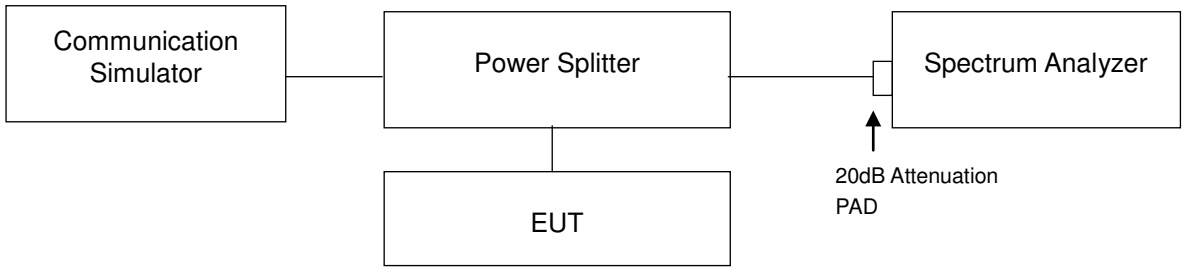
4.3.1 Limits of Occupied Bandwidth Measurement

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.3.2 Test Procedure

a. The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
b. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

4.3.3 Test Setup

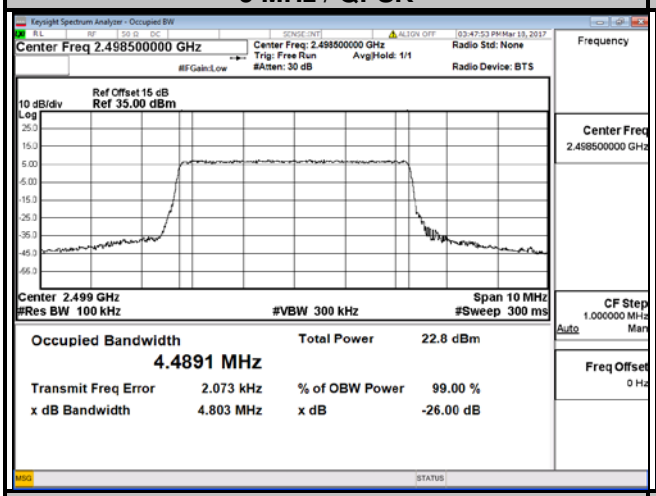


4.3.4 Test Result

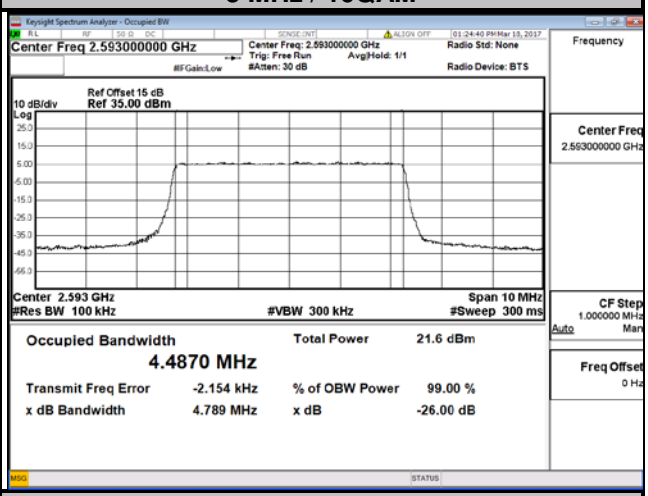
LTE Band 41							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
39675	2498.5	4.49	4.49	39700	2501.0	8.95	8.96
40620	2593.0	4.49	4.49	40620	2593.0	8.95	8.96
41565	2687.5	4.49	4.49	41540	2685.0	8.95	8.96

Spectrum Plot of Worst Value

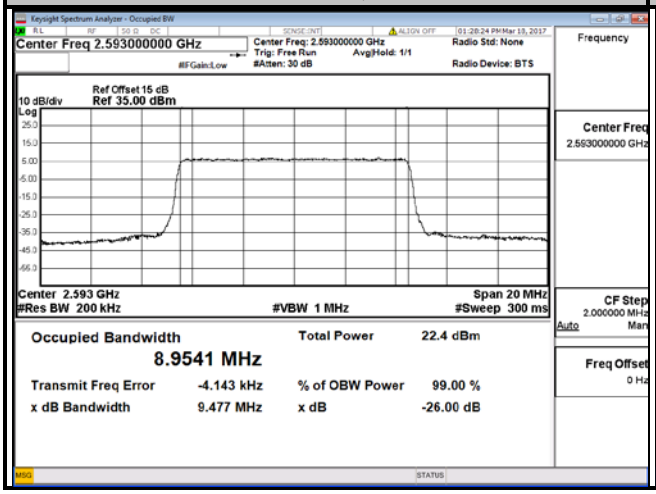
5 MHz / QPSK



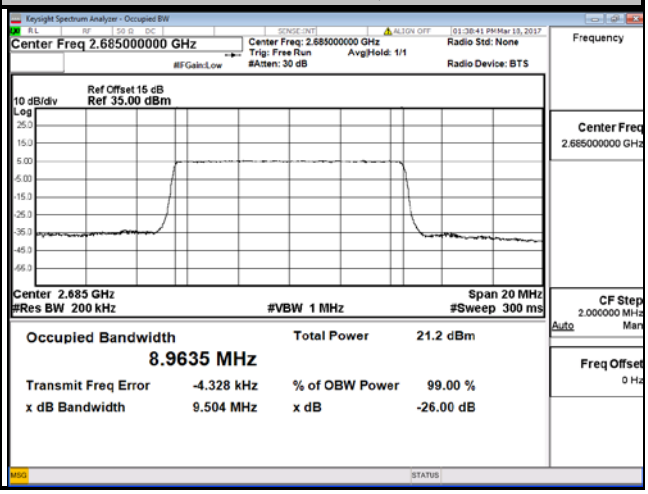
5 MHz / 16QAM



10 MHz / QPSK



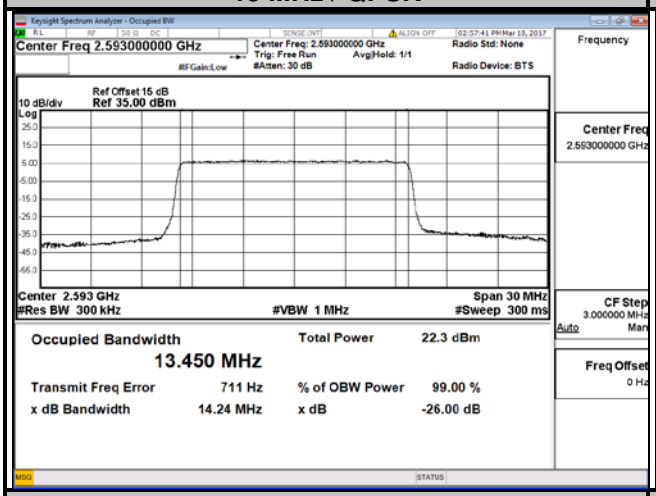
10 MHz / 16QAM



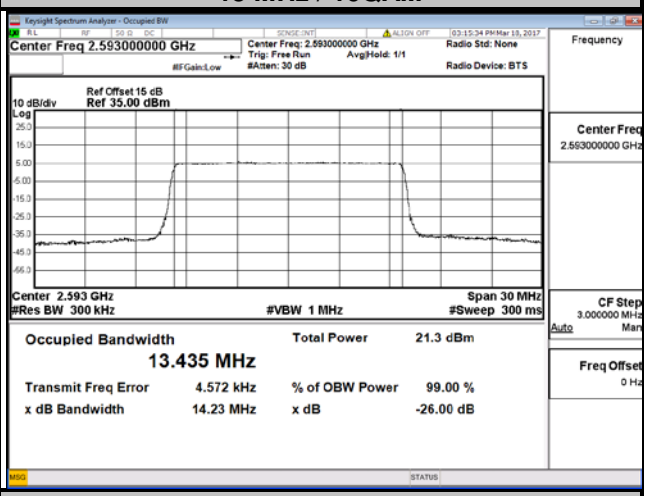
LTE Band 41							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)		Channel	Frequency (MHz)	99 % Occupied Bandwidth (MHz)	
		QPSK	16QAM			QPSK	16QAM
39725	2503.5	13.45	13.43	39750	2506.0	17.91	17.90
40620	2593.0	13.45	13.44	40620	2593.0	17.92	17.90
41515	2682.5	13.45	13.43	41490	2680.0	17.87	17.86

Spectrum Plot of Worst Value

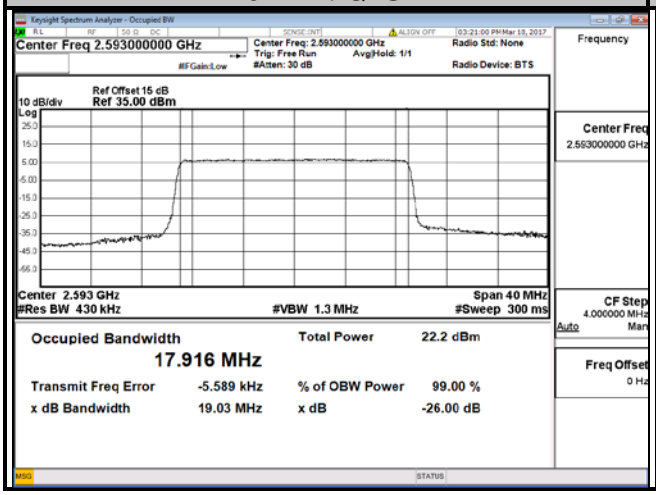
15 MHz / QPSK



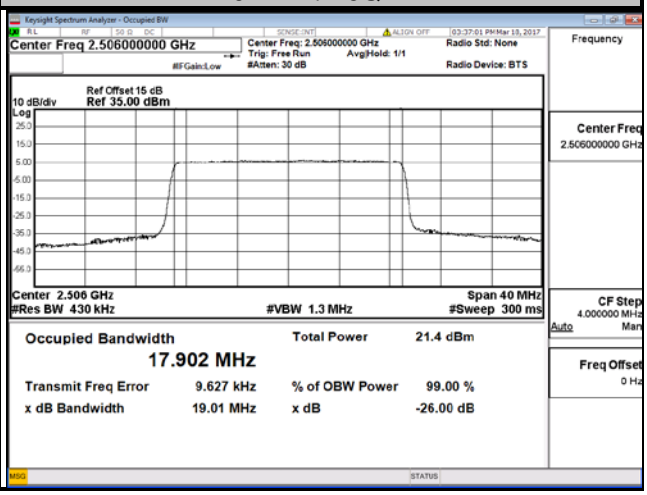
15 MHz / 16QAM



20 MHz / QPSK



20 MHz / 16QAM

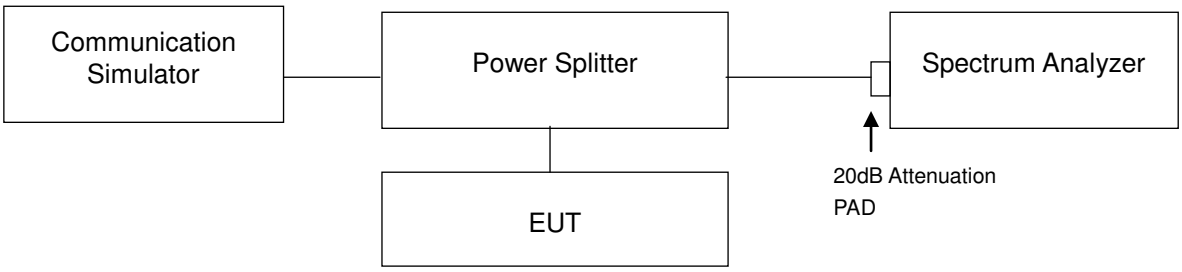


4.4 Band Edge Measurement

4.4.1 Limits of Band Edge Measurement

According to FCC 27.53(l)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

4.4.2 Test Setup



4.4.3 Test Procedures

a. The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).

b. The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.

c. The center frequency of spectrum is the band edge frequency and span is 20 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (Channel bandwidth 5 MHz).

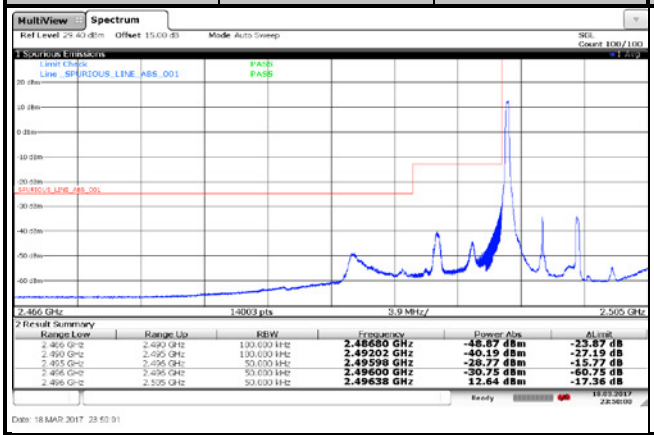
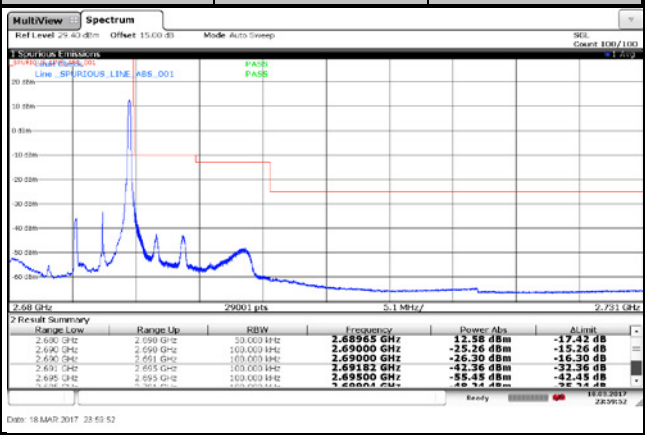
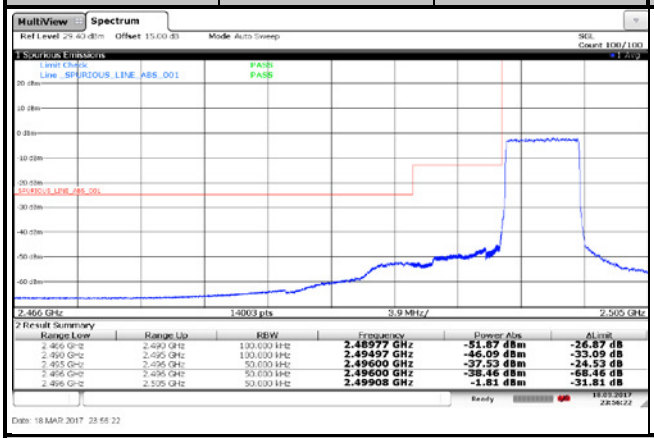
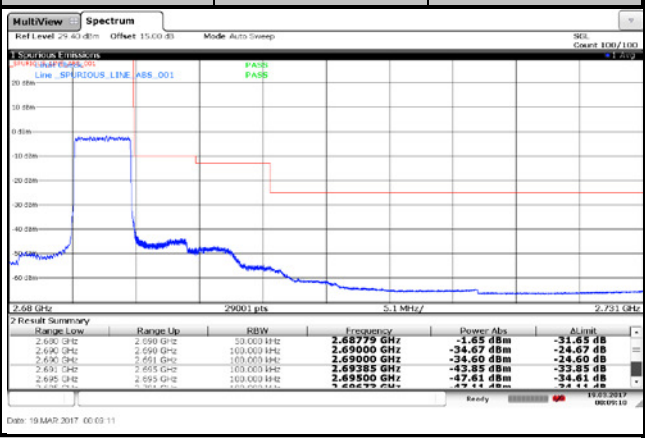
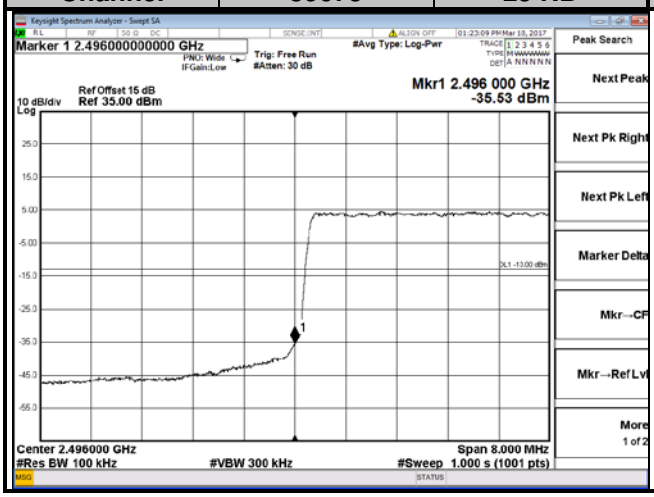
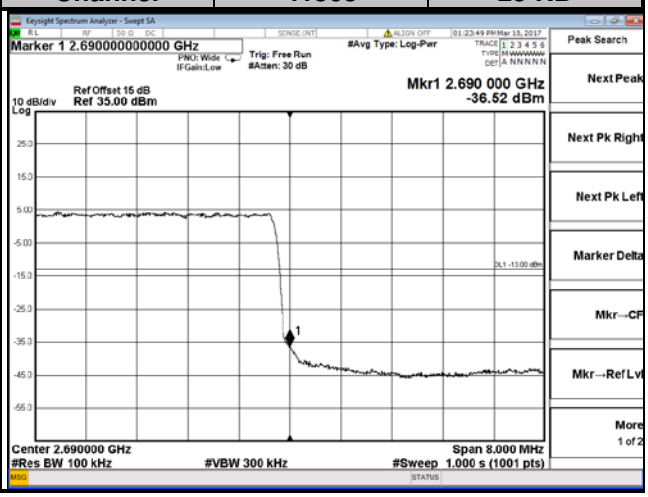
d. The center frequency of spectrum is the band edge frequency and span is 40 MHz. RB of the spectrum is 100 kHz and VB of the spectrum is 300 kHz (Channel bandwidth 10 MHz).

e. The center frequency of spectrum is the band edge frequency and span is 60 MHz. RB of the spectrum is 200 kHz and VB of the spectrum is 1 MHz (Channel bandwidth 15 MHz).

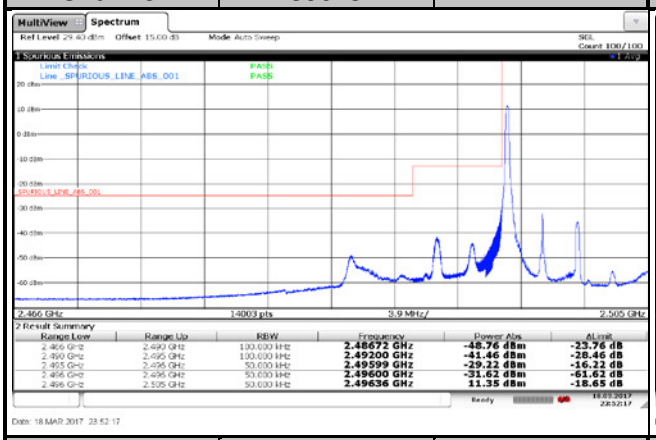
f. The center frequency of spectrum is the band edge frequency and span is 80 MHz. RB of the spectrum is 200 kHz and VB of the spectrum is 1 MHz (Channel bandwidth 20 MHz).

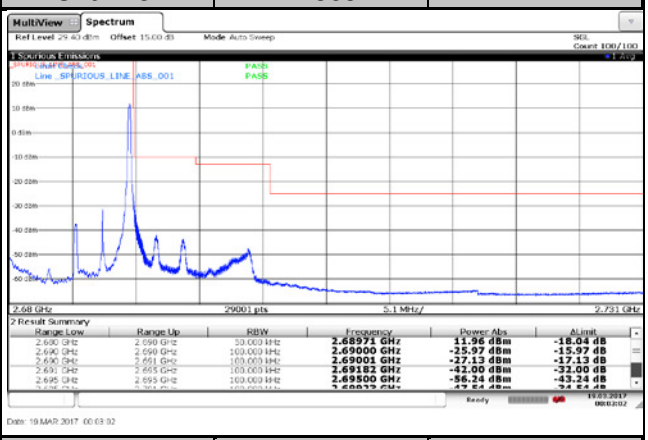
g. Record the max trace plot into the test report.

4.4.4 Test Results

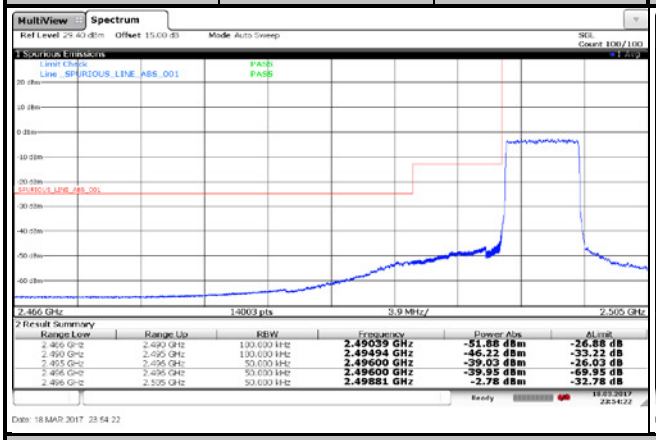
LTE Band 41					
Channel Bandwidth: 5 MHz / QPSK					
<Adjacent Channel Band Edge>					
Channel	39675	1 RB	Channel	41565	1 RB
					
Channel	39675	25 RB	Channel	41565	25 RB
					
<Channel Band Edge>					
Channel	39675	25 RB	Channel	41565	25 RB
					

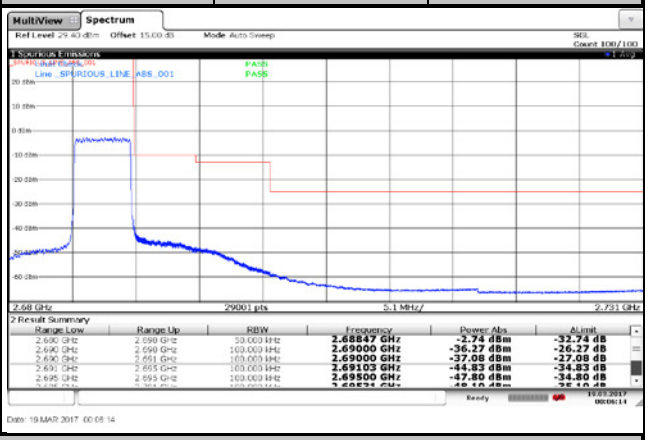
LTE Band 41					
Channel Bandwidth: 5 MHz / 16QAM					
<Adjacent Channel Band Edge>					
Channel	39675	1 RB	Channel	41565	1 RB



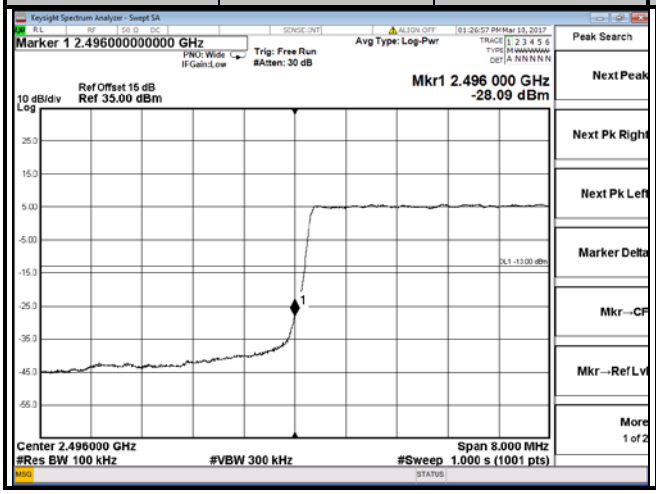


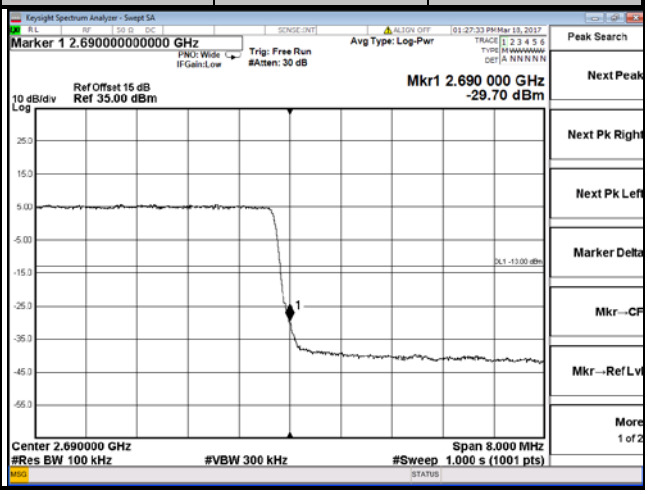
Channel	39675	25 RB	Channel	41565	25 RB



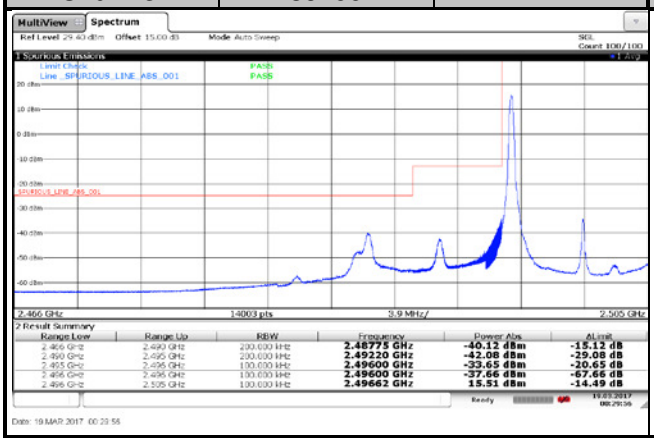


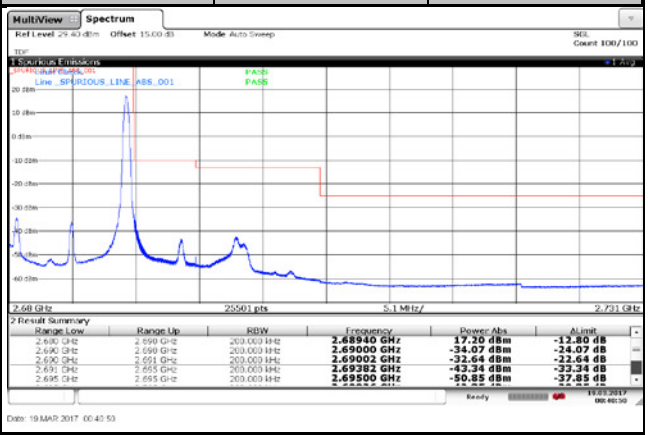
<Channel Band Edge>					
Channel	39675	25 RB	Channel	41565	25 RB



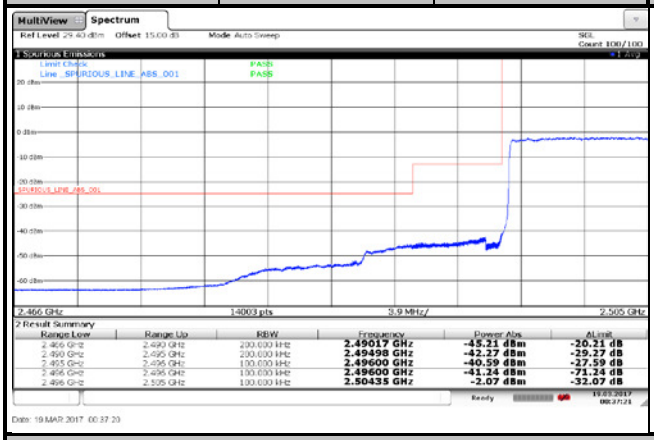


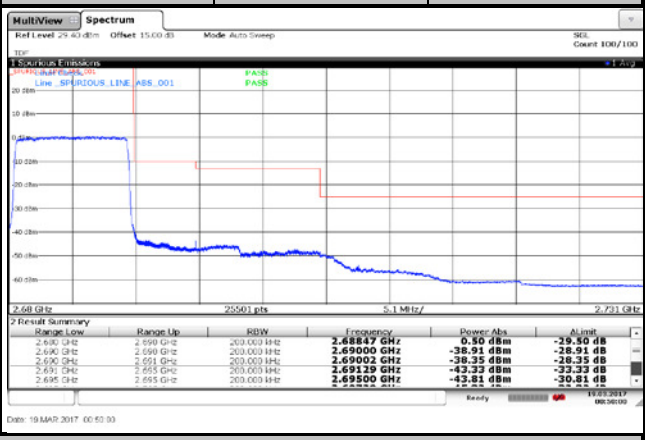
LTE Band 41					
Channel Bandwidth: 10 MHz / QPSK					
<Adjacent Channel Band Edge>					
Channel	39700	1 RB	Channel	41540	1 RB



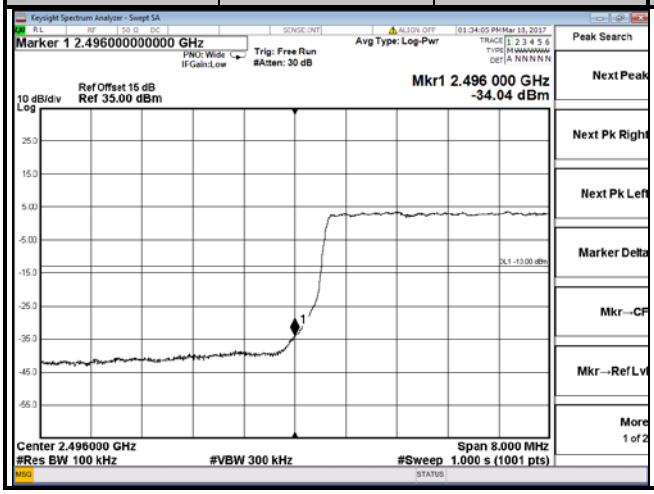


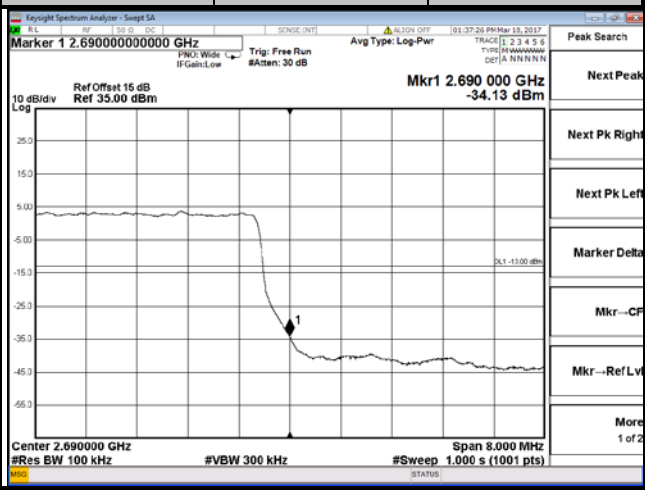
Channel	39700	50 RB	Channel	41540	50 RB



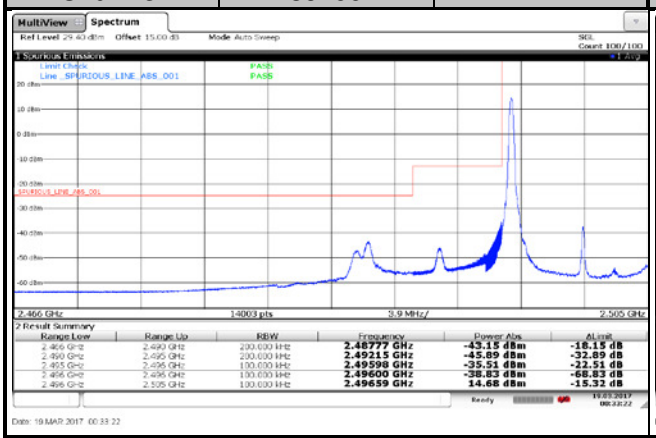


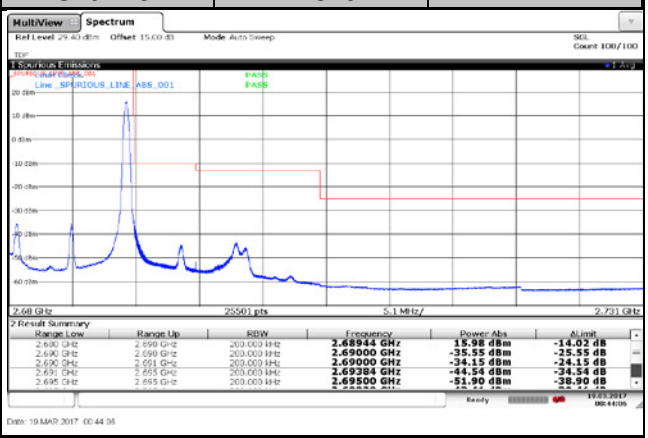
<Channel Band Edge>					
Channel	39700	50 RB	Channel	41540	50 RB



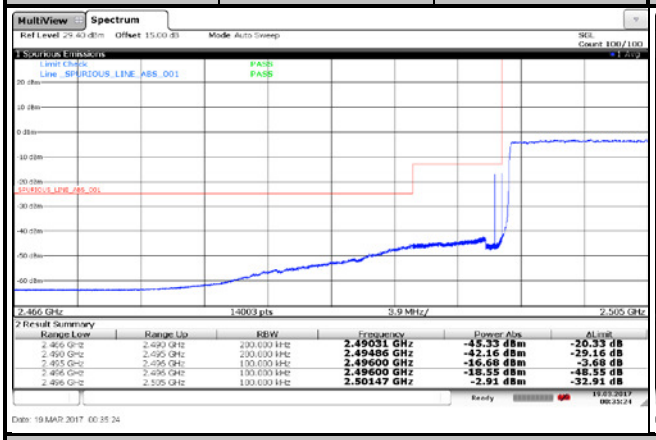


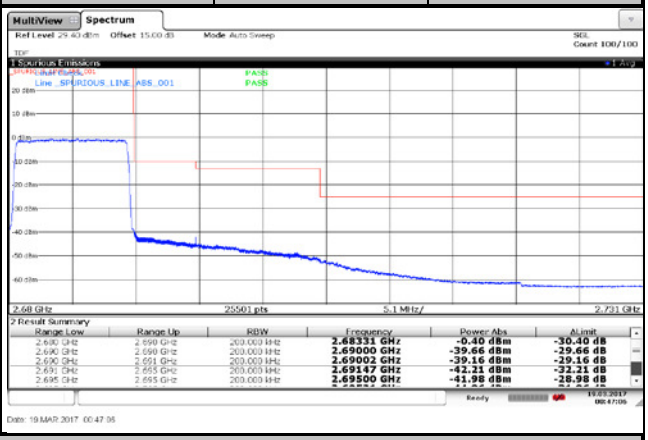
LTE Band 41					
Channel Bandwidth: 10 MHz / 16QAM					
<Adjacent Channel Band Edge>					
Channel	39700	1 RB	Channel	41540	1 RB



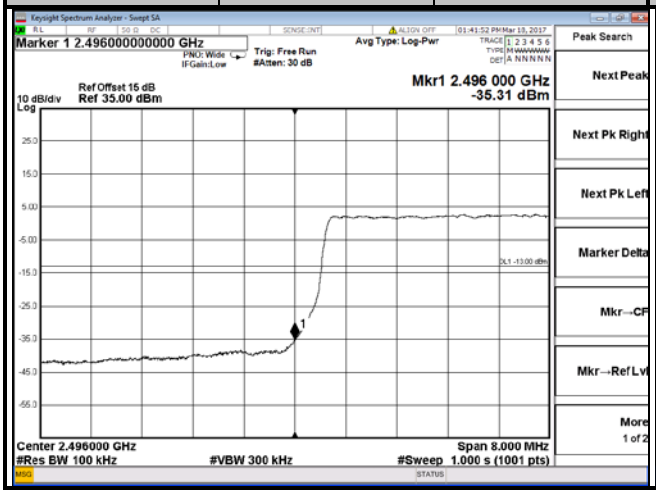


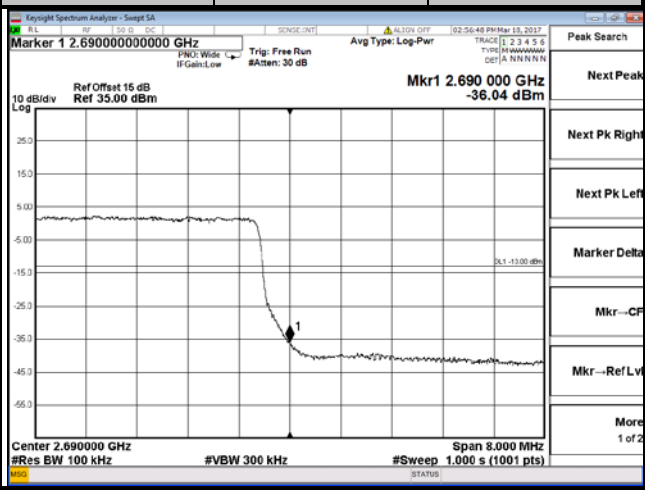
Channel	39700	50 RB	Channel	41540	50 RB



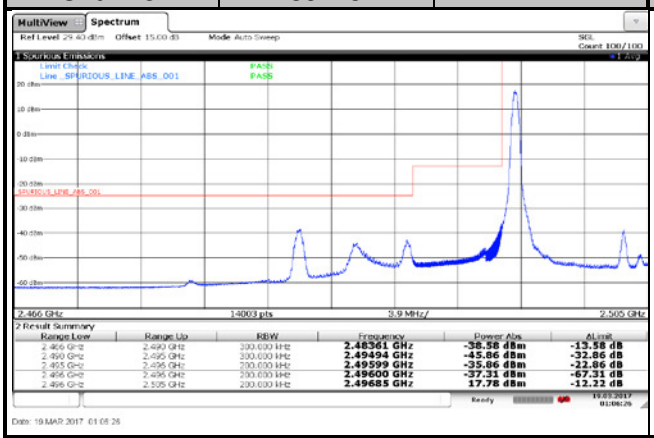


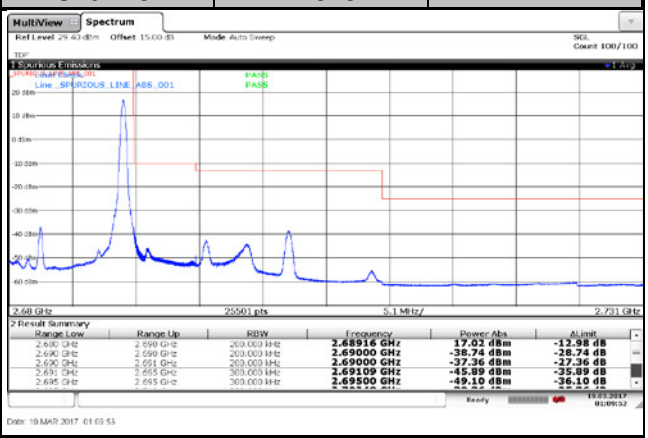
<Channel Band Edge>					
Channel	39700	50 RB	Channel	41540	50 RB



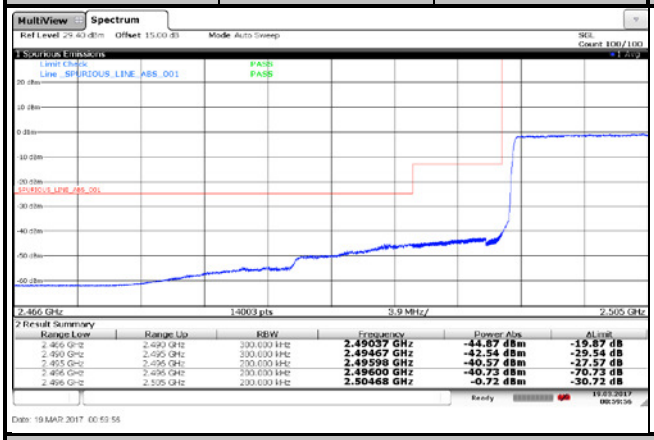


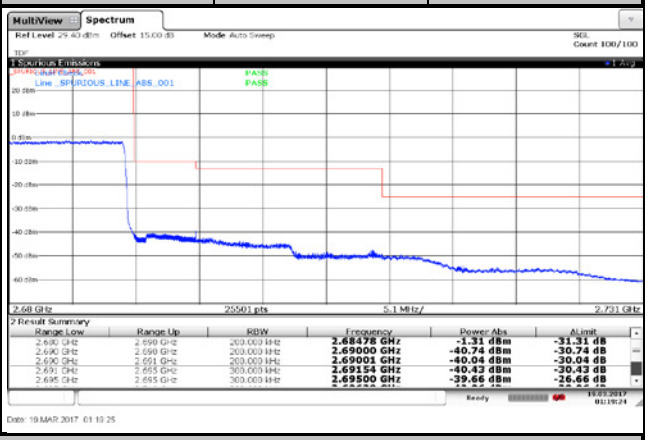
LTE Band 41					
Channel Bandwidth: 15 MHz / QPSK					
<Adjacent Channel Band Edge>					
Channel	39725	1 RB	Channel	41515	1 RB



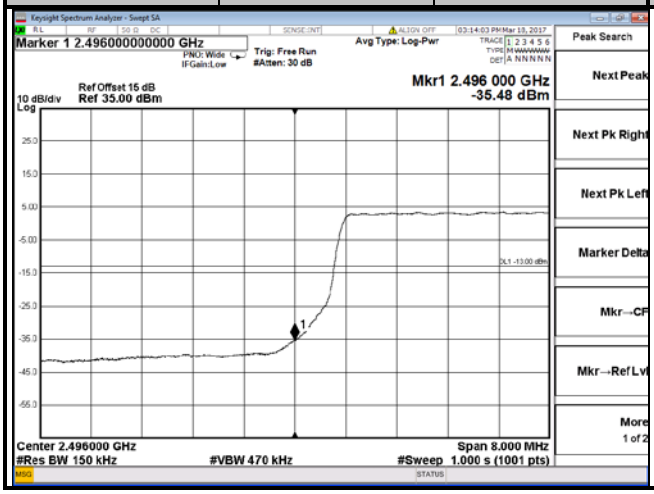


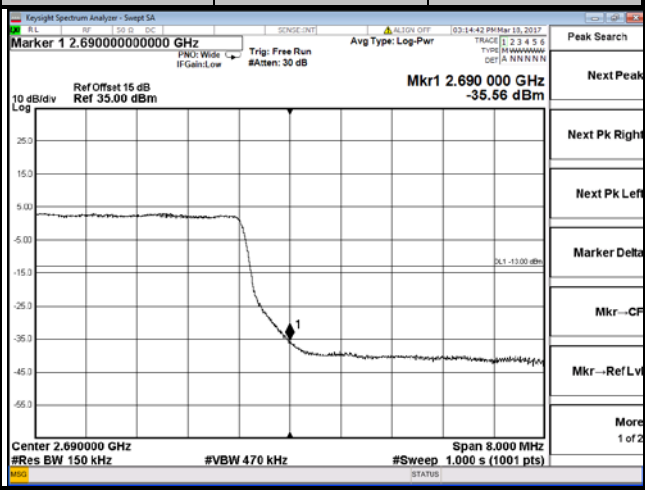
Channel	39725	75 RB	Channel	41515	75 RB



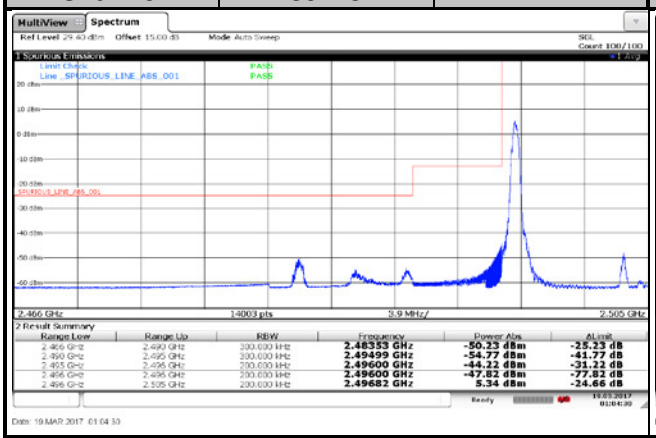


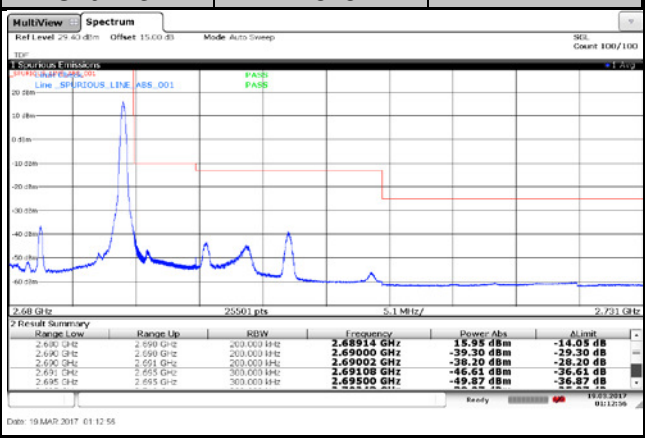
<Channel Band Edge>					
Channel	39725	75 RB	Channel	41515	75 RB



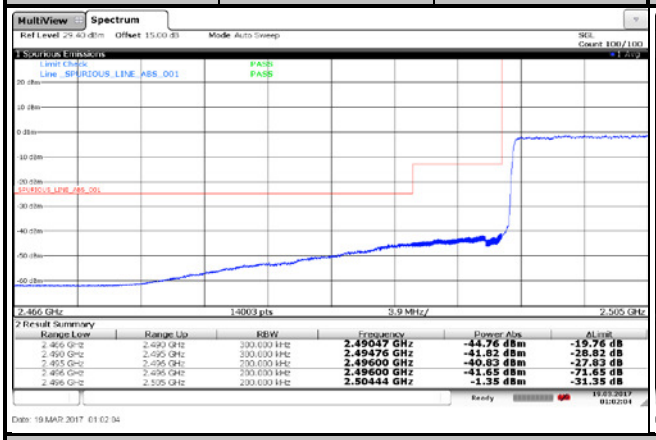


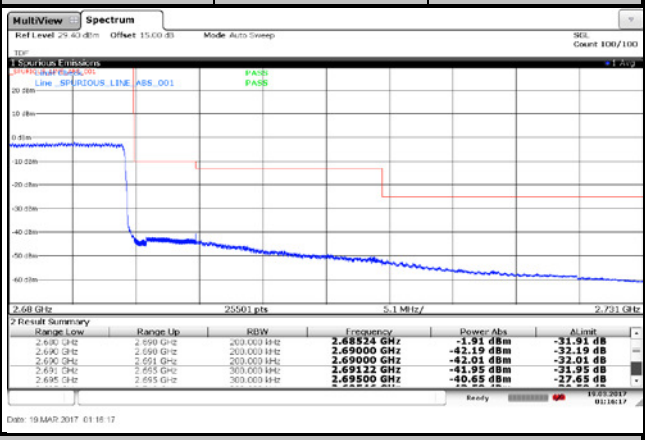
LTE Band 41					
Channel Bandwidth: 15 MHz / 16QAM					
<Adjacent Channel Band Edge>					
Channel	39725	1 RB	Channel	41515	1 RB



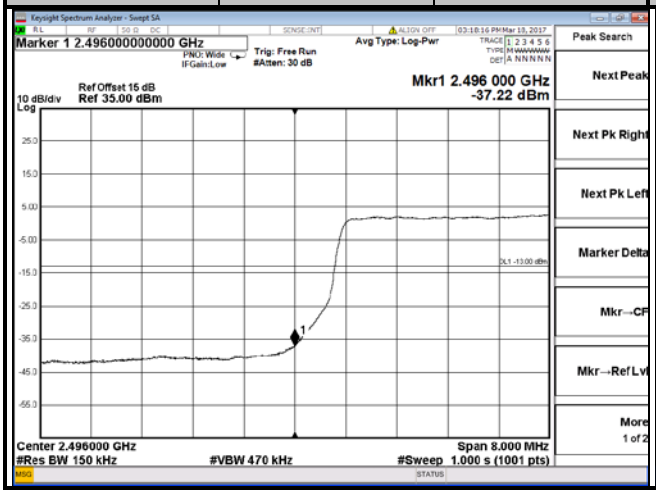


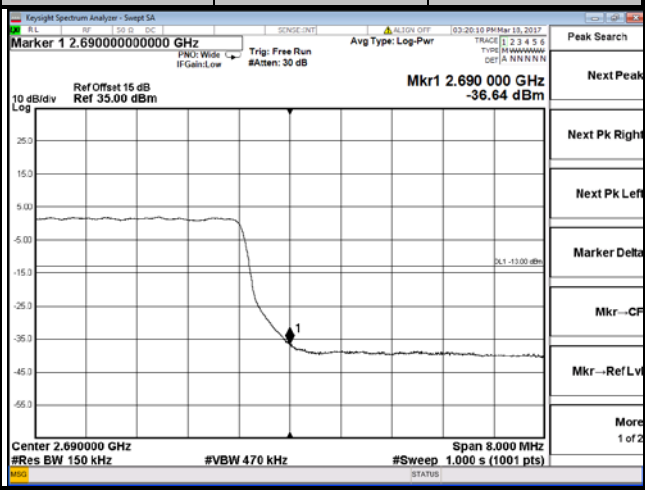
Channel	39725	75 RB	Channel	41515	75 RB

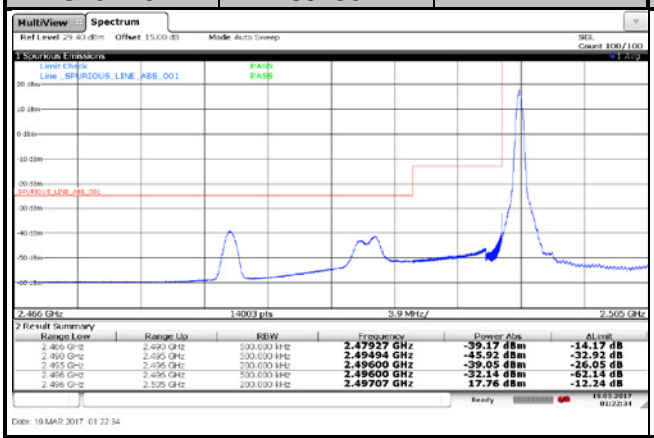
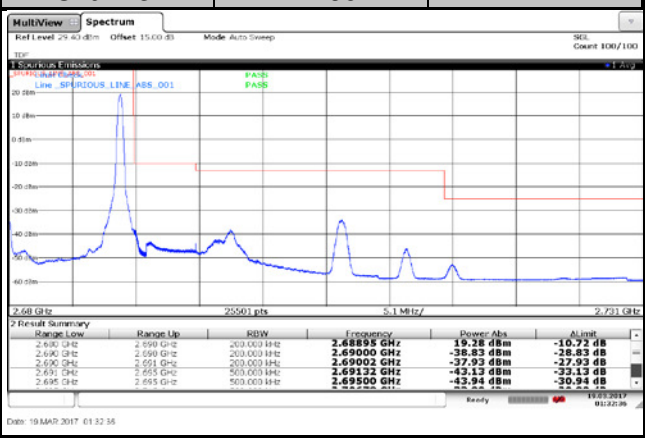
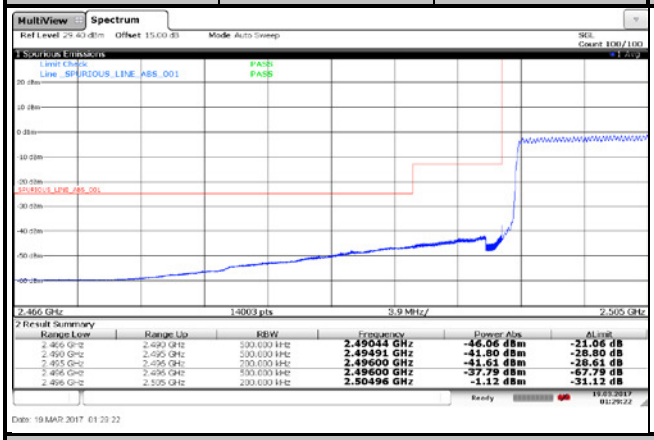
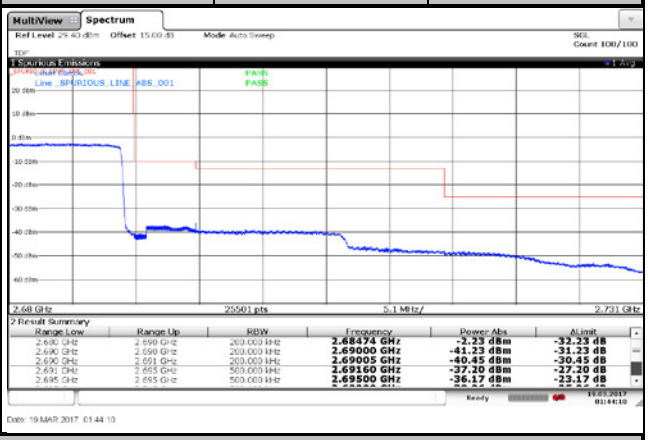
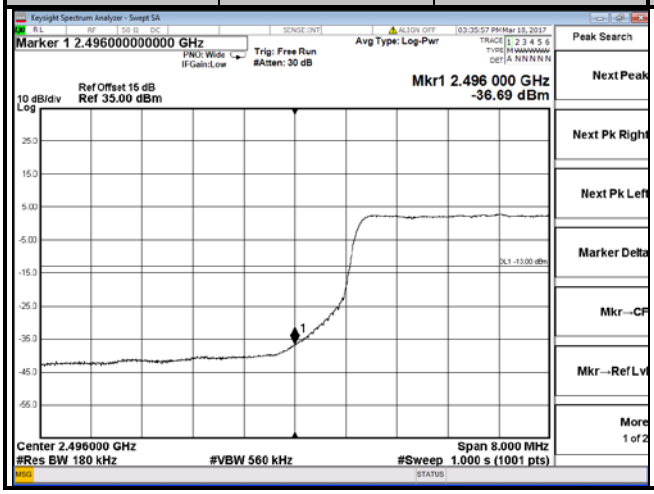
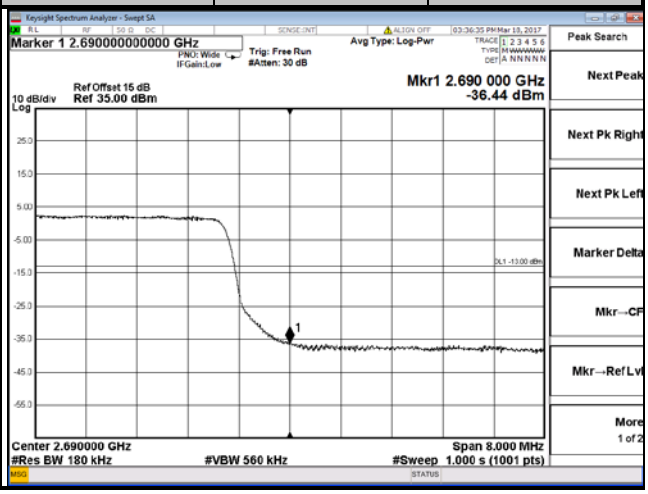




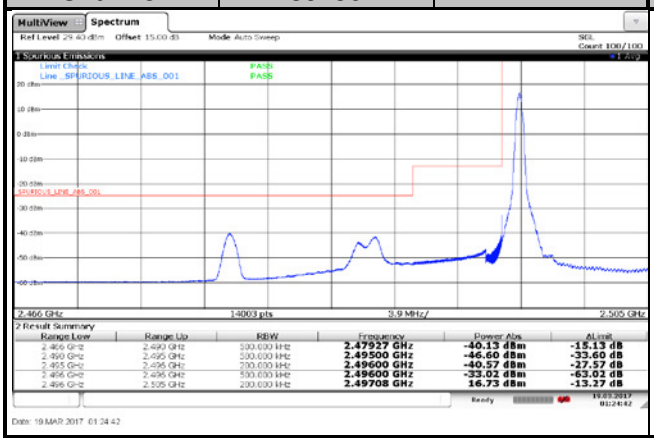
<Channel Band Edge>					
Channel	39725	75 RB	Channel	41515	75 RB

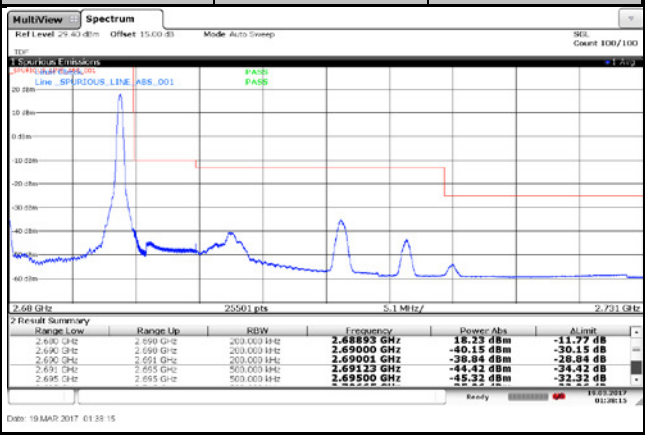




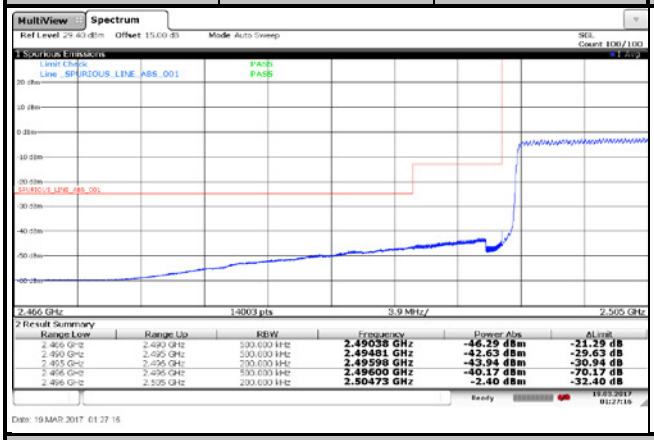
LTE Band 41					
Channel Bandwidth: 20 MHz / QPSK					
<Adjacent Channel Band Edge>					
Channel	39750	1 RB	Channel	41490	1 RB
					
Channel	39750	100 RB	Channel	41490	100 RB
					
<Channel Band Edge>					
Channel	39750	100 RB	Channel	41490	100 RB
					

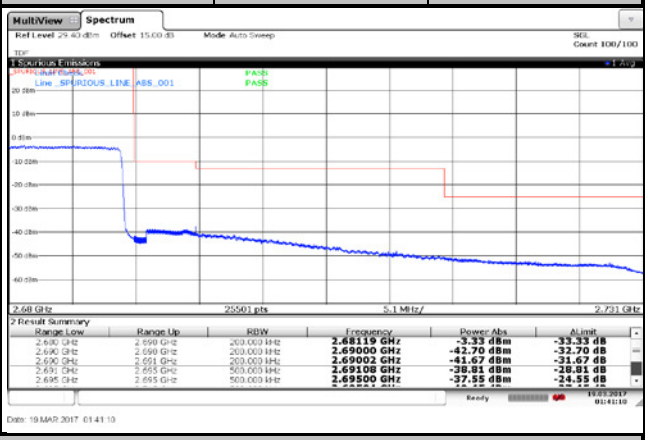
LTE Band 41					
Channel Bandwidth: 20 MHz / 16QAM					
<Adjacent Channel Band Edge>					
Channel	39750	1 RB	Channel	41490	1 RB



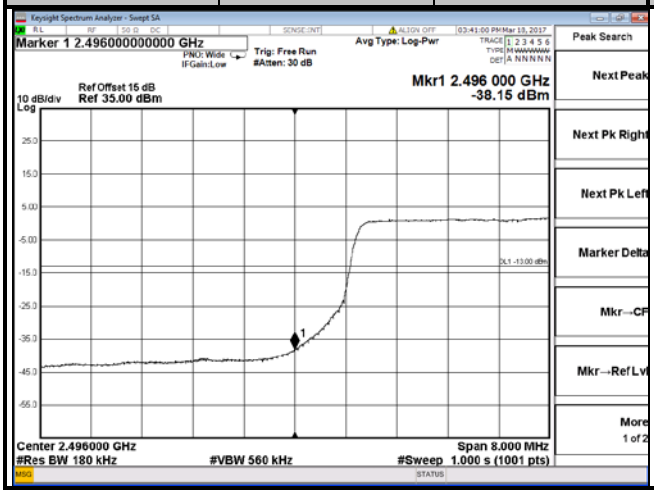


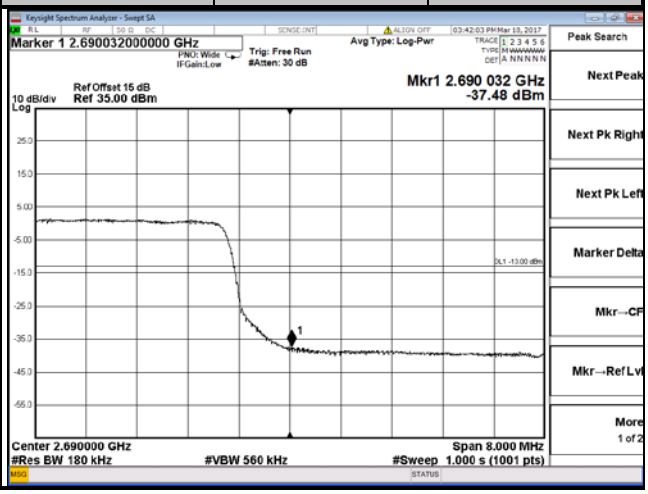
Channel	39750	100 RB	Channel	41490	100 RB





<Channel Band Edge>					
Channel	39750	100 RB	Channel	41490	100 RB



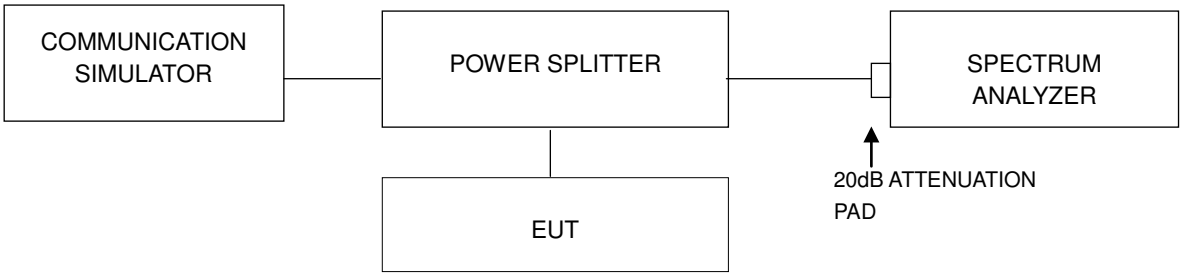


4.5 Peak to Average Ratio

4.5.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB.

4.5.2 Test Setup



4.5.3 Test Procedures

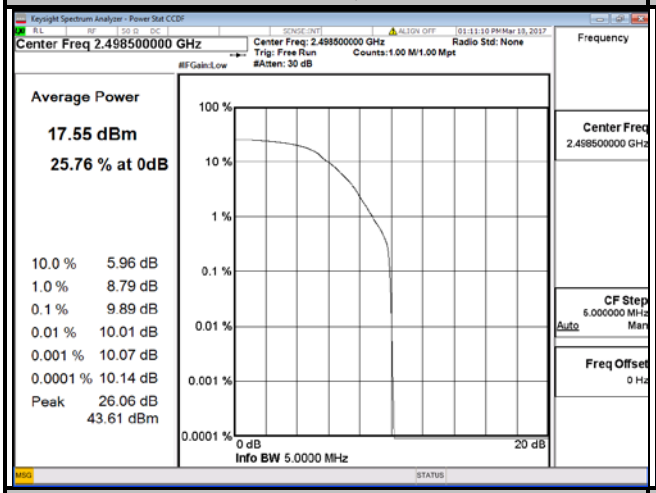
1. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1 %.

4.5.4 Test Results

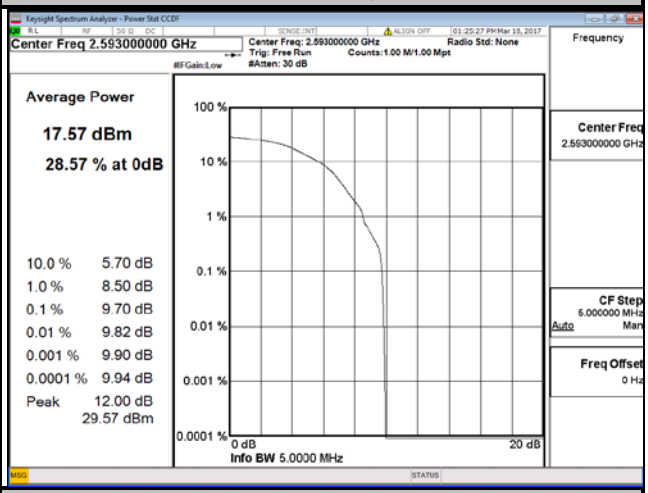
LTE Band 41							
Channel Bandwidth: 5 MHz				Channel Bandwidth: 10 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
39675	2498.5	9.89	9.54	39700	2501.0	9.12	9.28
40620	2593.0	8.03	9.70	40620	2593.0	8.52	9.67
41565	2687.5	8.08	9.35	41540	2685.0	8.48	9.40

Spectrum Plot of Worst Value

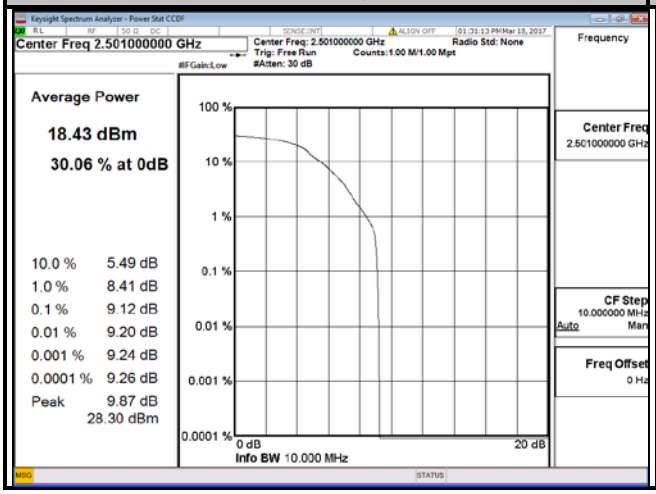
5 MHz / QPSK



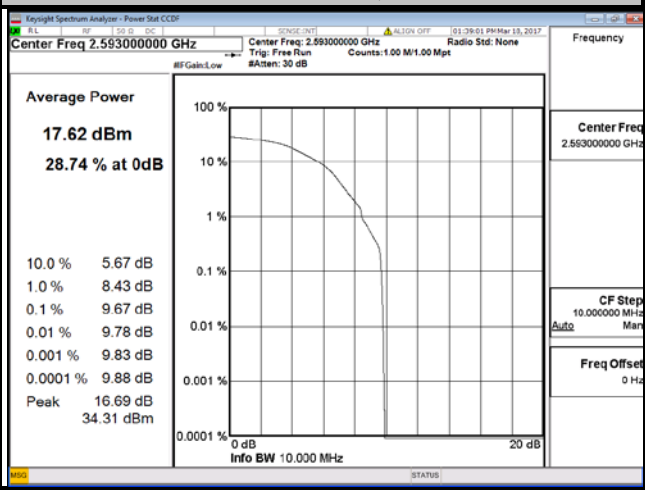
5 MHz / 16QAM



10 MHz / QPSK



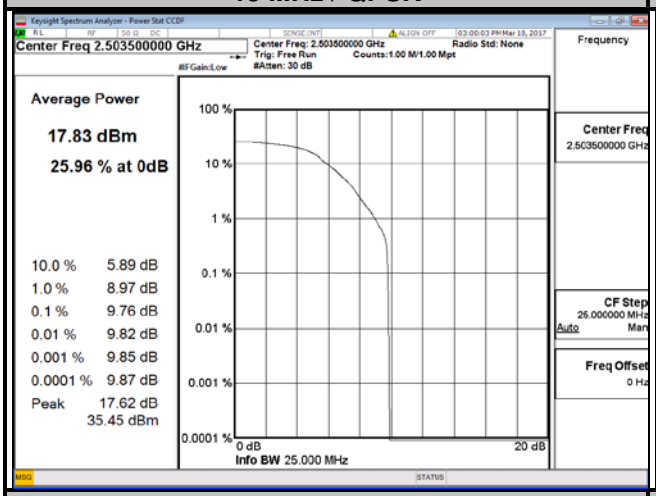
10 MHz / 16QAM



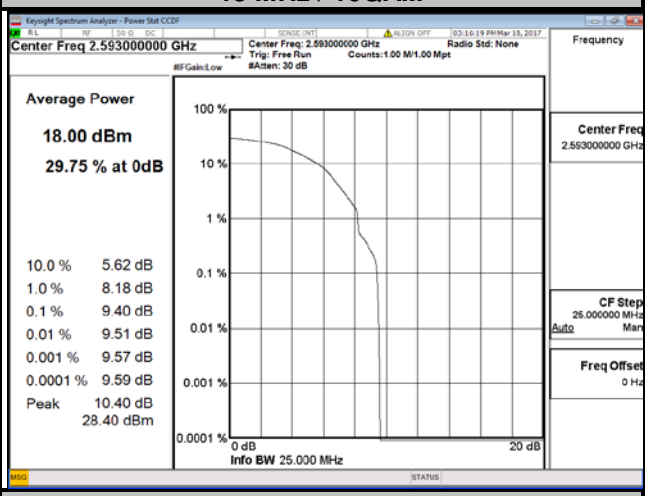
LTE Band 41							
Channel Bandwidth: 15 MHz				Channel Bandwidth: 20 MHz			
Channel	Frequency (MHz)	Peak to Average Ratio (dB)		Channel	Frequency (MHz)	Peak to Average Ratio (dB)	
		QPSK	16QAM			QPSK	16QAM
39725	2503.5	9.76	8.82	39750	2506.0	8.67	9.96
40620	2593.0	8.68	9.40	40620	2593.0	8.17	9.91
41515	2682.5	7.97	8.54	41490	2680.0	8.29	8.37

Spectrum Plot of Worst Value

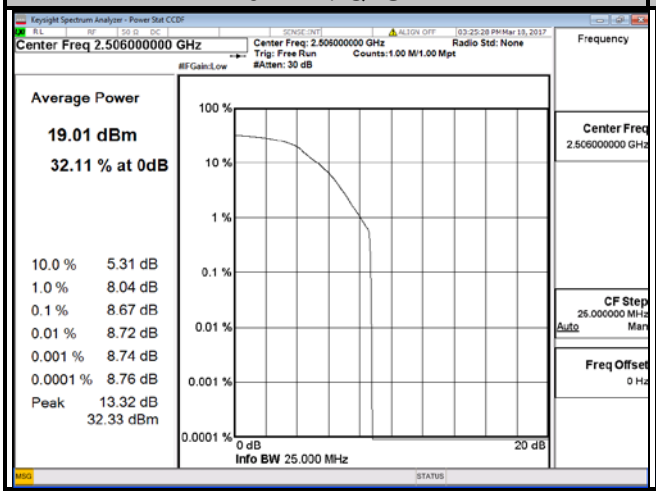
15 MHz / QPSK



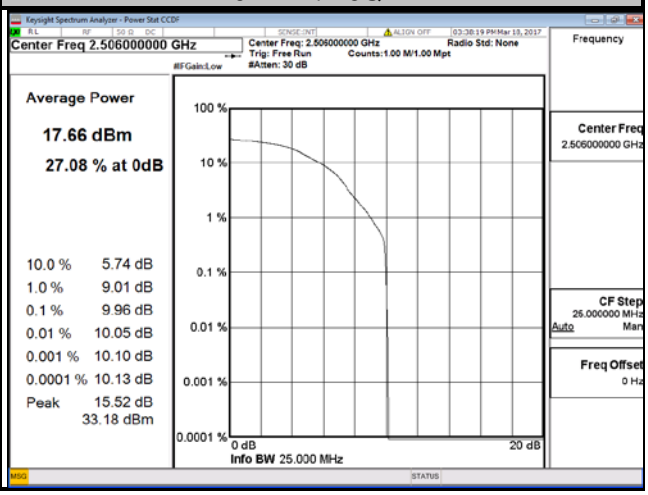
15 MHz / 16QAM



20 MHz / QPSK



20 MHz / 16QAM

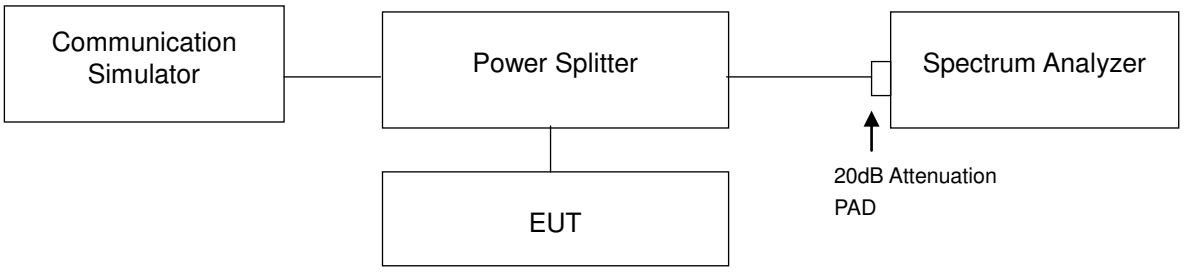


4.6 Conducted Spurious Emissions

4.6.1 Limits of Conducted Spurious Emissions Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 55 +10 log10(P) dB. The limit of emission is equal to -25 dBm.

4.6.2 Test Setup

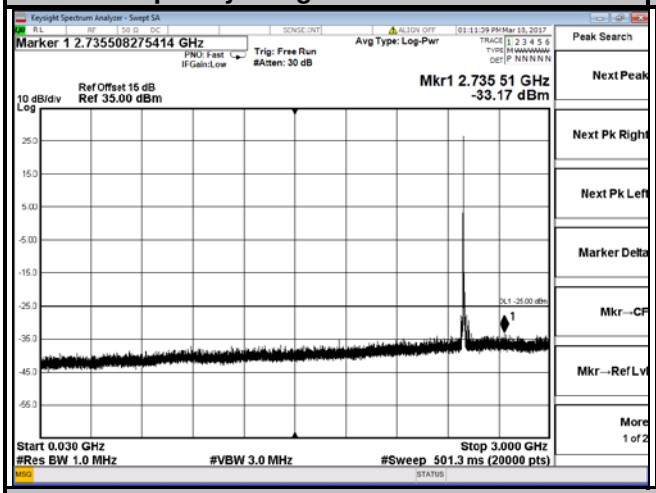
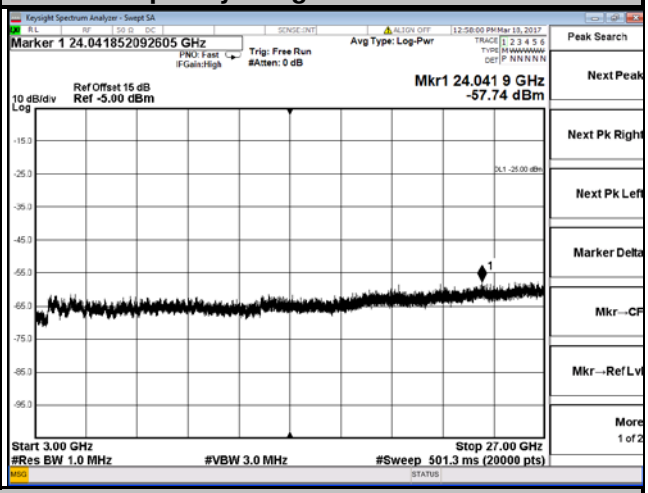
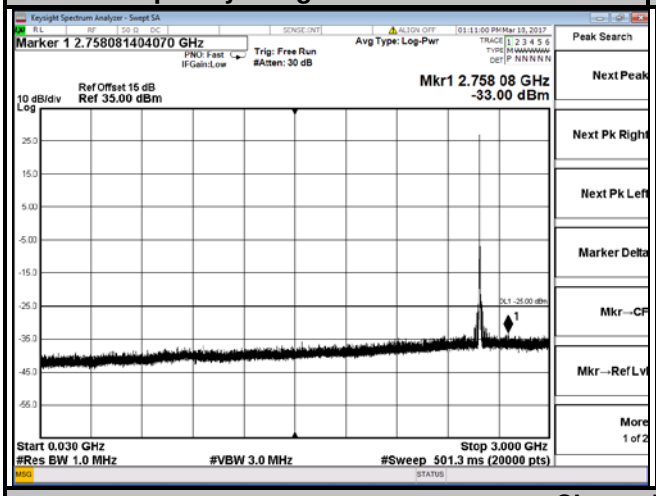
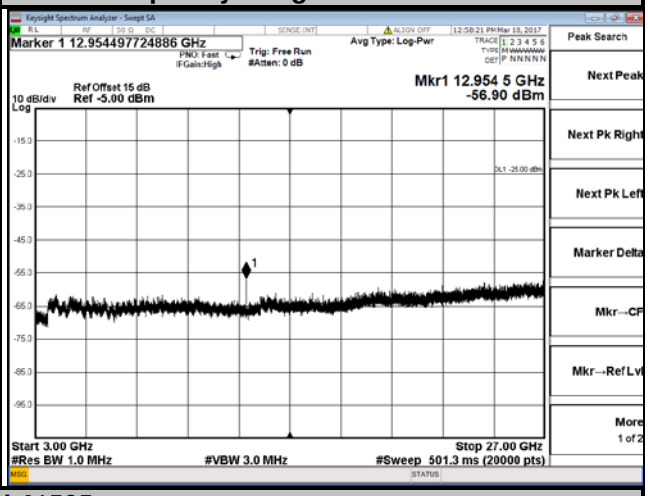
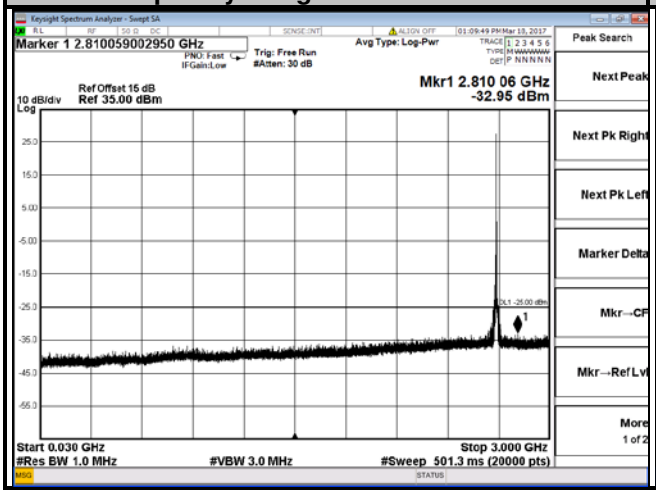
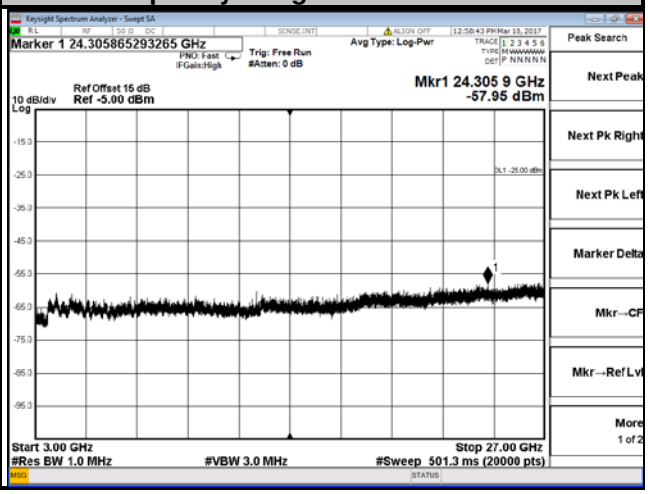


4.6.3 Test Procedure

a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

b. Measuring frequency range is from 30 MHz to 27 GHz for LTE Band 41. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

4.6.4 Test Results

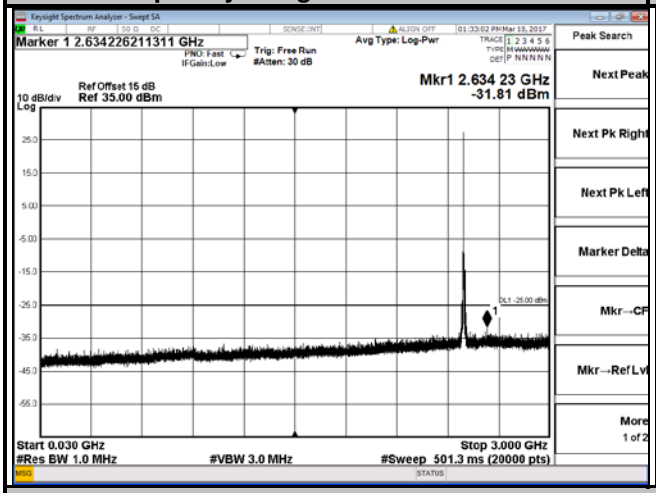
LTE Band 41	
Channel Bandwidth: 5 MHz	
Channel 39675	
Frequency Range : 30 MHz ~ 3 GHz	Frequency Range : 3 GHz ~ 27 GHz
	
Channel 40620	
Frequency Range : 30 MHz ~ 3 GHz	Frequency Range : 3 GHz ~ 27 GHz
	
Channel 41565	
Frequency Range : 30 MHz ~ 3 GHz	Frequency Range : 3 GHz ~ 27 GHz
	

LTE Band 41

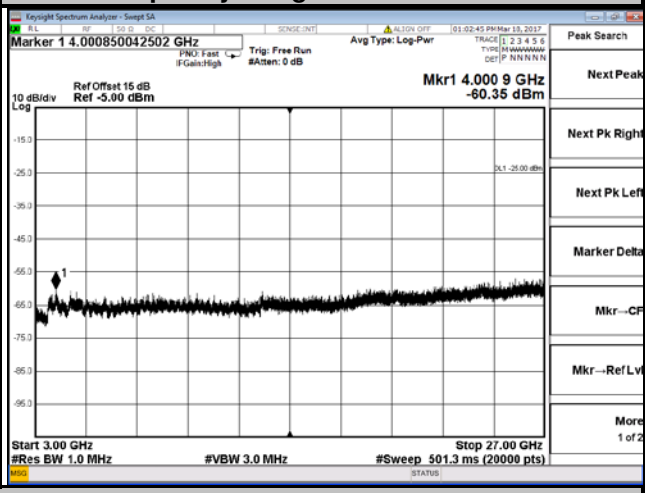
Channel Bandwidth: 10 MHz

Channel 39700

Frequency Range : 30 MHz ~ 3 GHz

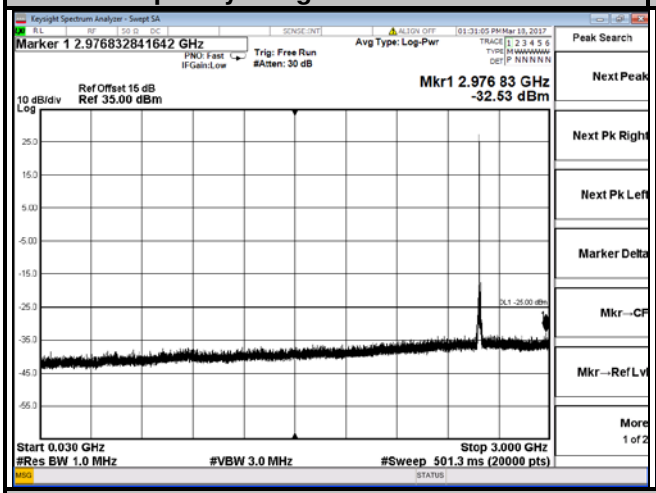


Frequency Range : 3 GHz ~ 27 GHz

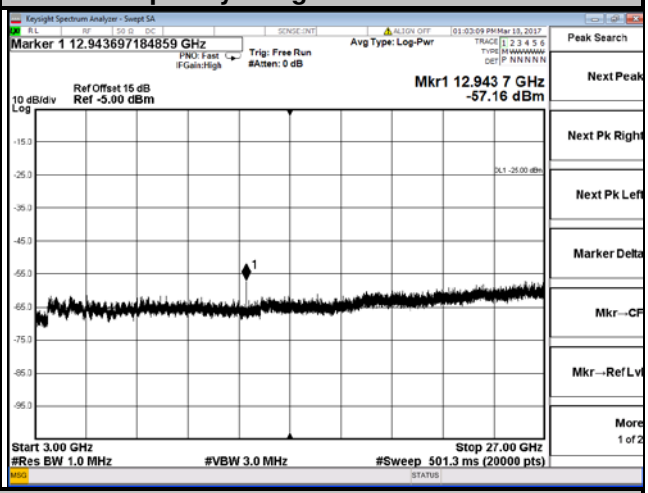


Channel 40620

Frequency Range : 30 MHz ~ 3 GHz

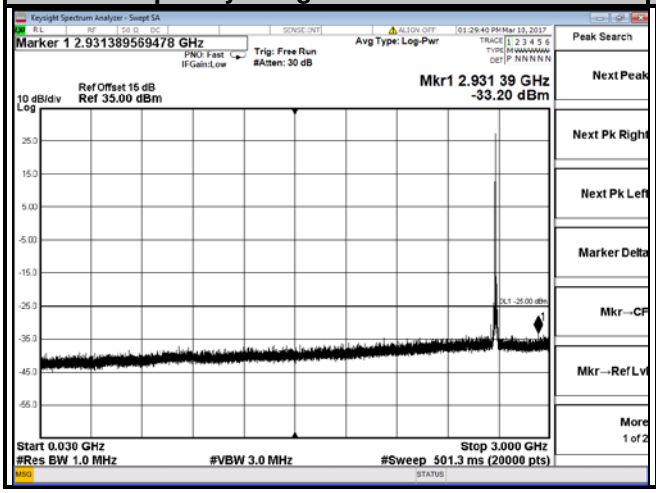


Frequency Range : 3 GHz ~ 27 GHz

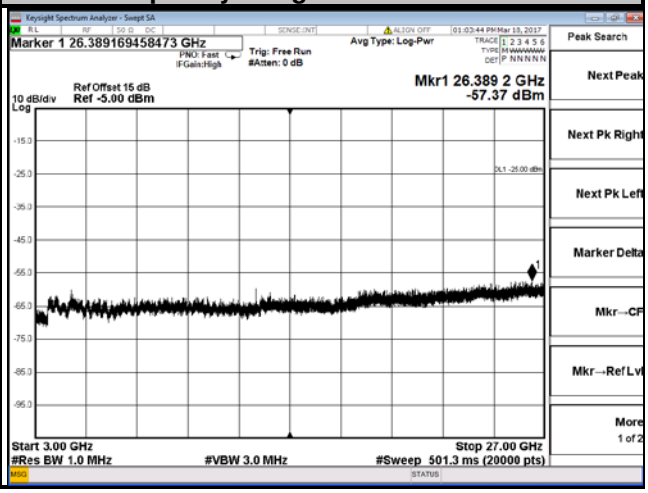


Channel 41540

Frequency Range : 30 MHz ~ 3 GHz



Frequency Range : 3 GHz ~ 27 GHz

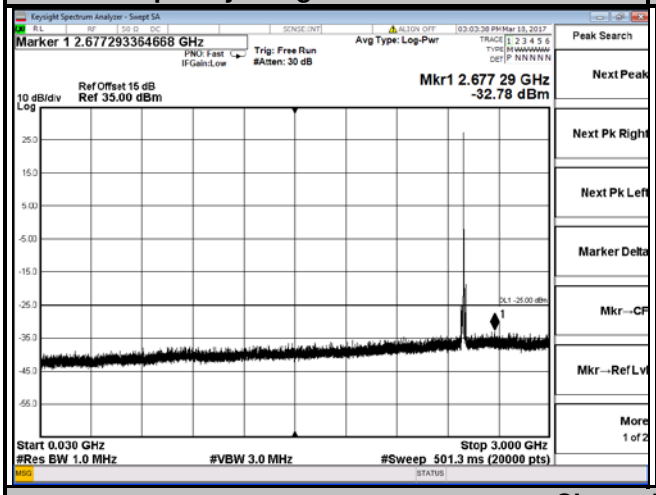


LTE Band 41

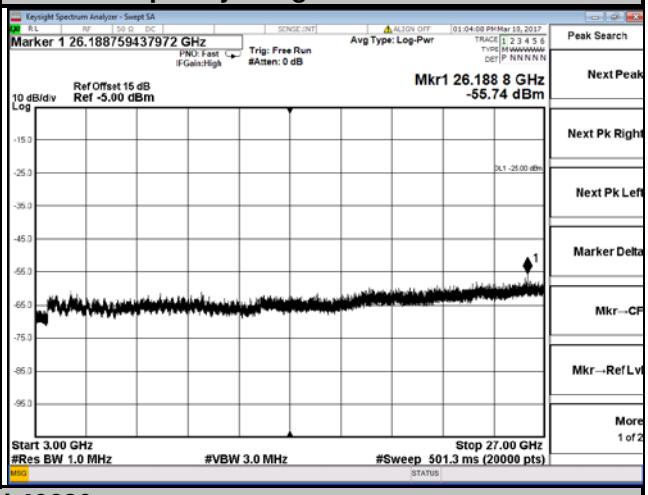
Channel Bandwidth: 15 MHz

Channel 39725

Frequency Range : 30 MHz ~ 3 GHz

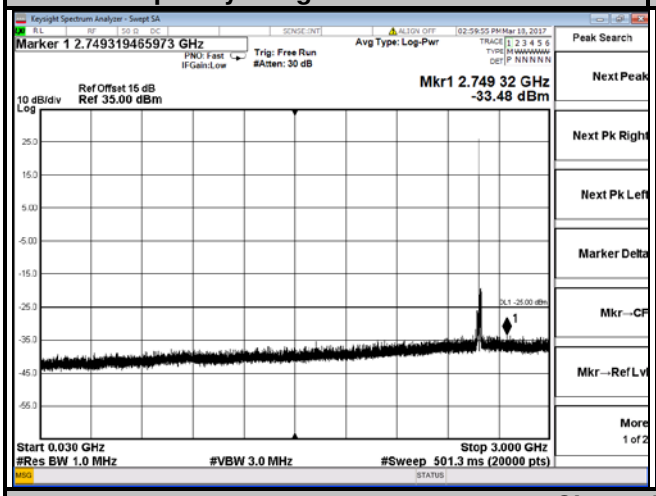


Frequency Range : 3 GHz ~ 27 GHz

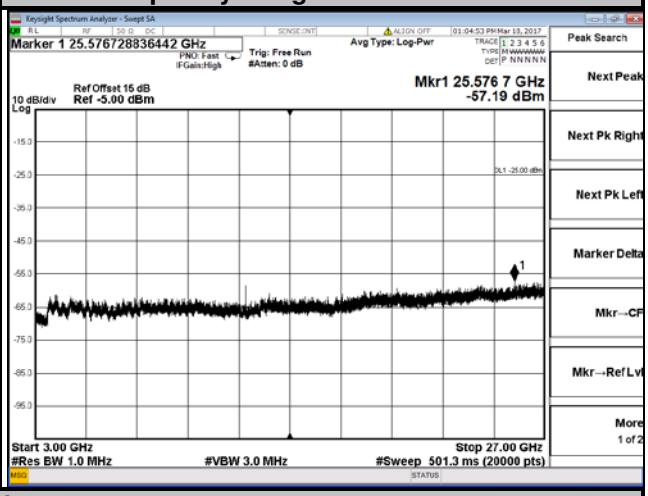


Channel 40620

Frequency Range : 30 MHz ~ 3 GHz

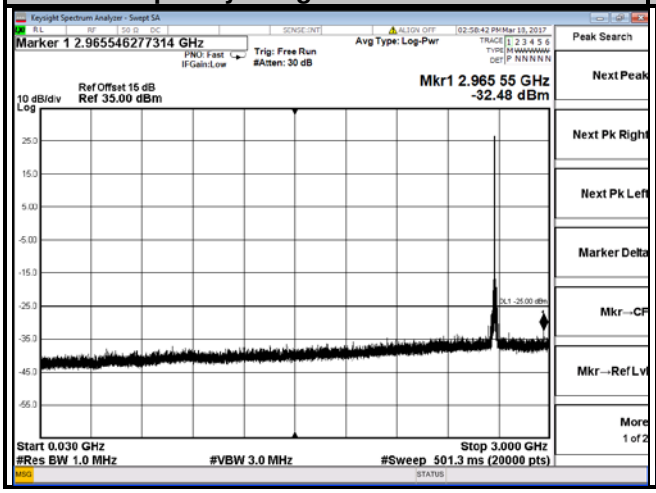


Frequency Range : 3 GHz ~ 27 GHz

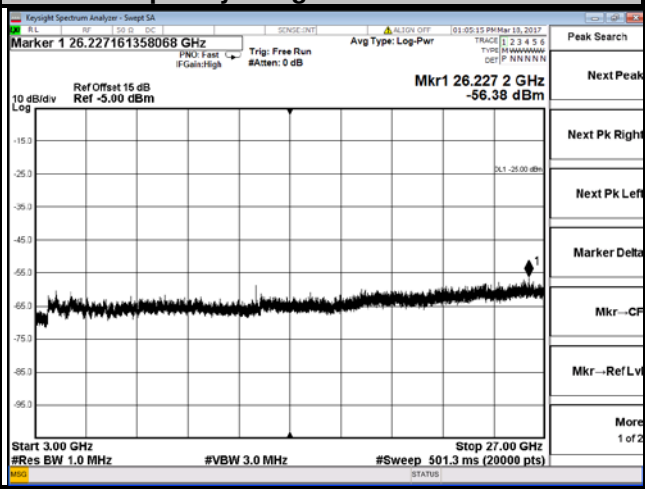


Channel 41515

Frequency Range : 30 MHz ~ 3 GHz



Frequency Range : 3 GHz ~ 27 GHz

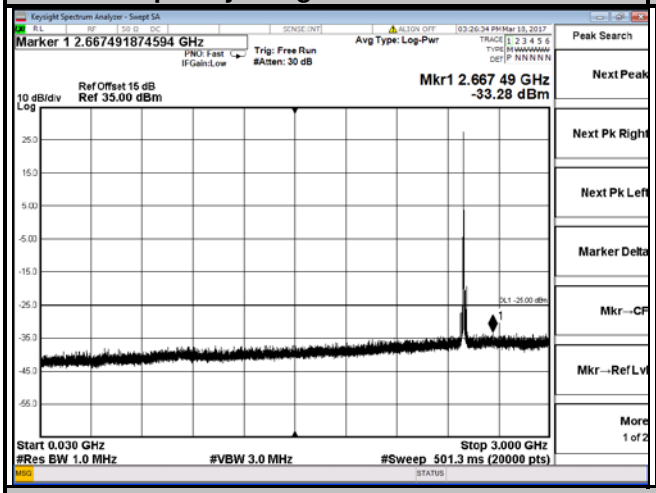


LTE Band 41

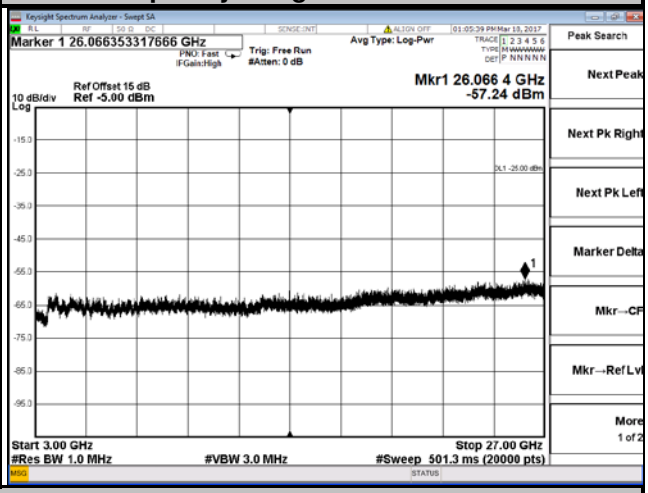
Channel Bandwidth: 20 MHz

Channel 39750

Frequency Range : 30 MHz ~ 3 GHz

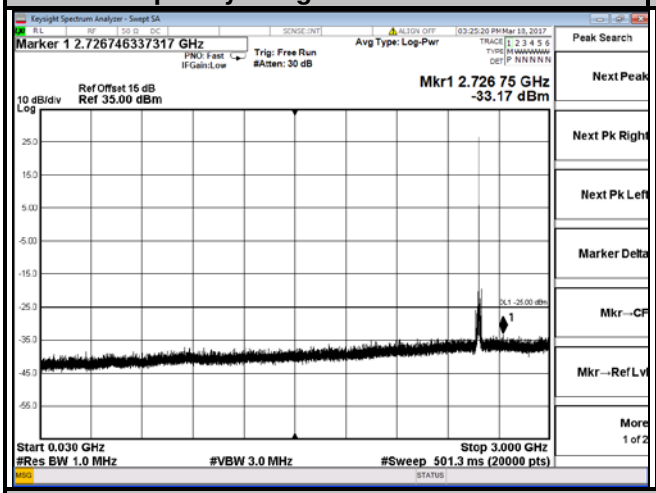


Frequency Range : 3 GHz ~ 27 GHz

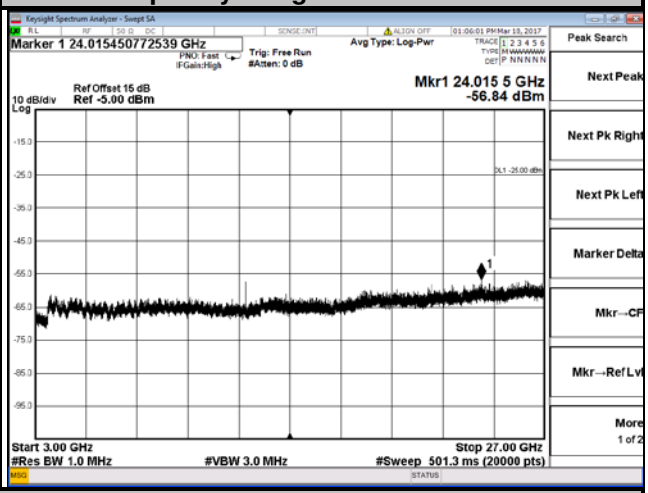


Channel 40620

Frequency Range : 30 MHz ~ 3 GHz

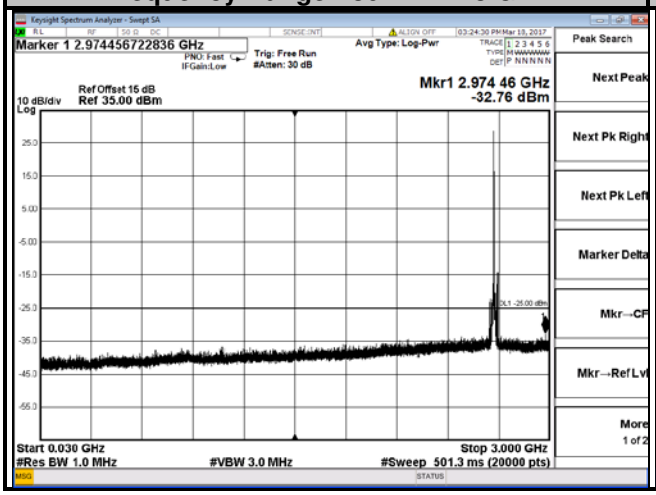


Frequency Range : 3 GHz ~ 27 GHz

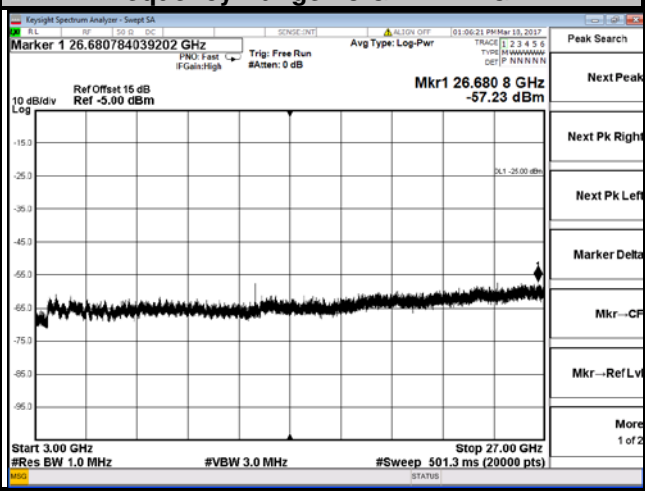


Channel 41490

Frequency Range : 30 MHz ~ 3 GHz



Frequency Range : 3 GHz ~ 27 GHz



4.7 Radiated Emission Measurement

4.7.1 Limits of Radiated Emission Measurement

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least 55 +10 log10(P) dB. The limit of emission is equal to -25 dBm.

4.7.2 Test Procedure

a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1 m to 4 m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.

b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G.

c. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

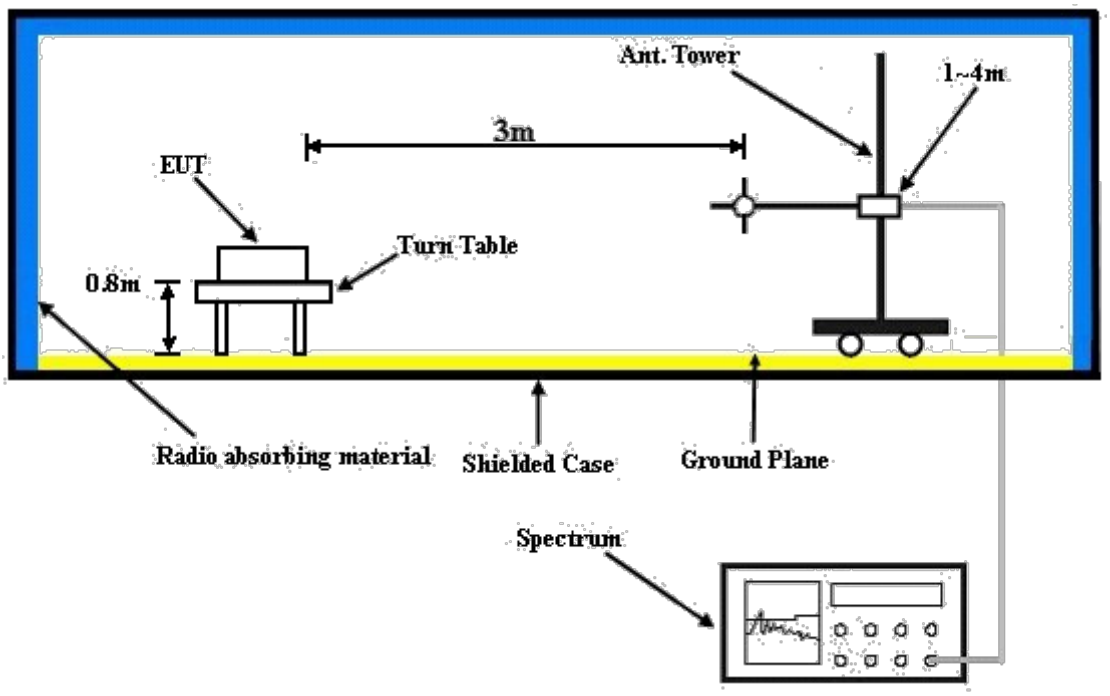
d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15 dBi.

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.7.3 Deviation from Test Standard

No deviation.

4.7.4 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

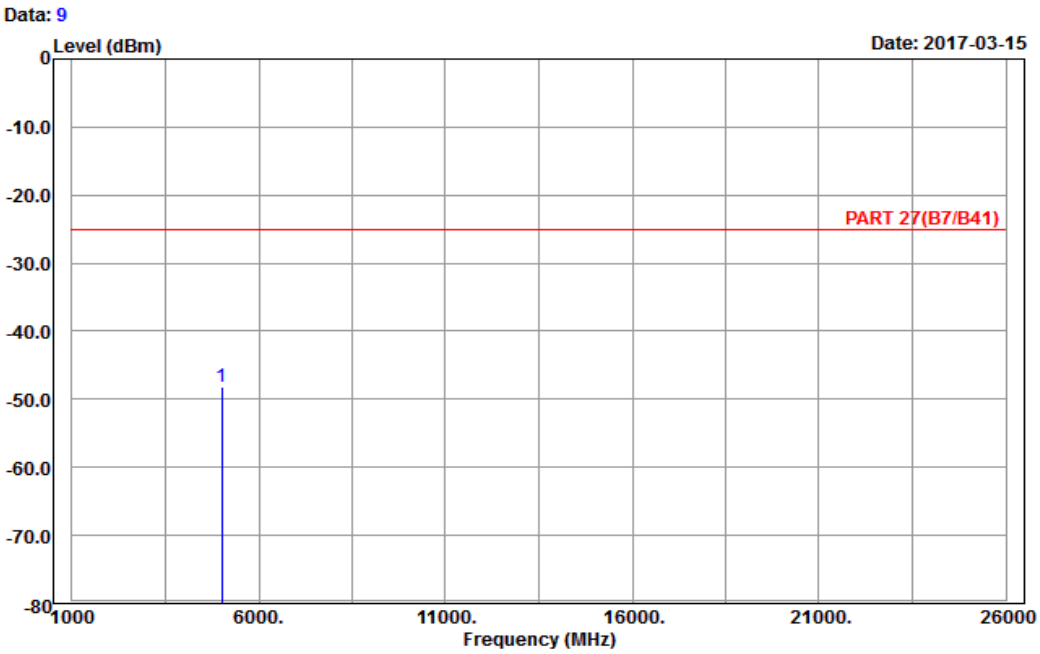
4.7.5 Test Results

LTE Band 41

Channel Bandwidth: 20 MHz / QPSK

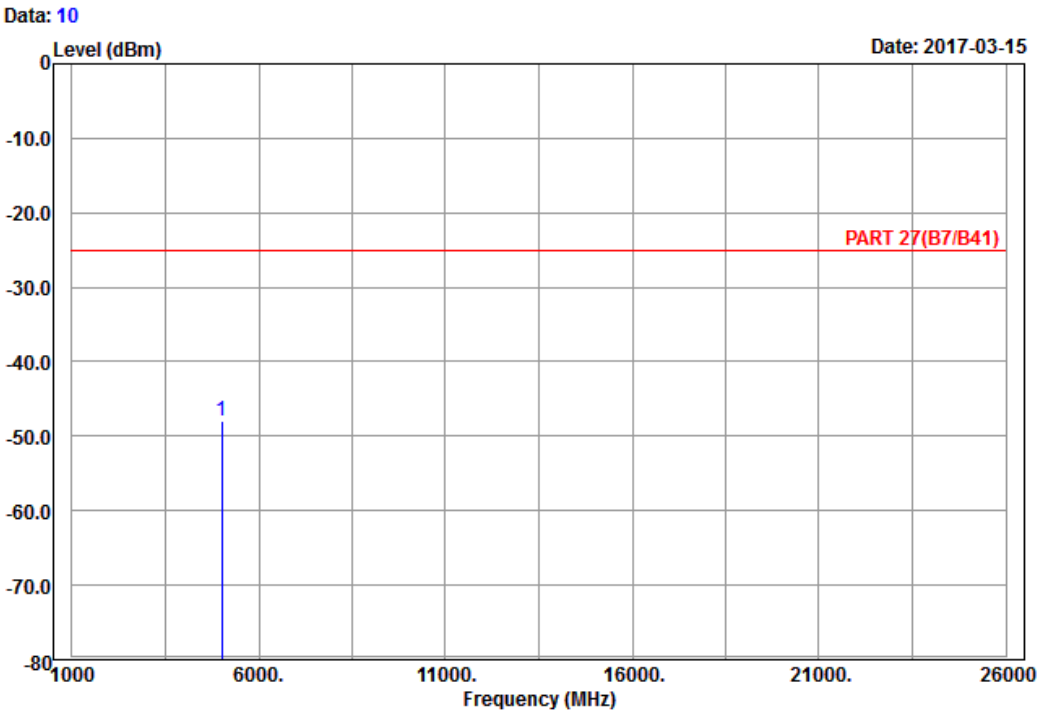
Low Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch




```
Site      : 966 chamber 1
Condition: PART 27(B7/B41) Horizontal
Remark    : LTE_Band 41_Link_CH39750
Tested by: Charles Hsiao
                        Read  Limit   Over
          Freq  Level  Level   Line  Limit Factor Remark
        _________ ______ ______ ______ ______ ______ __________
              MHz    dBm    dBm    dBm     dB     dB

  1 pp  5012.00 -48.13 -67.21 -25.00 -23.13  19.08 Peak
```

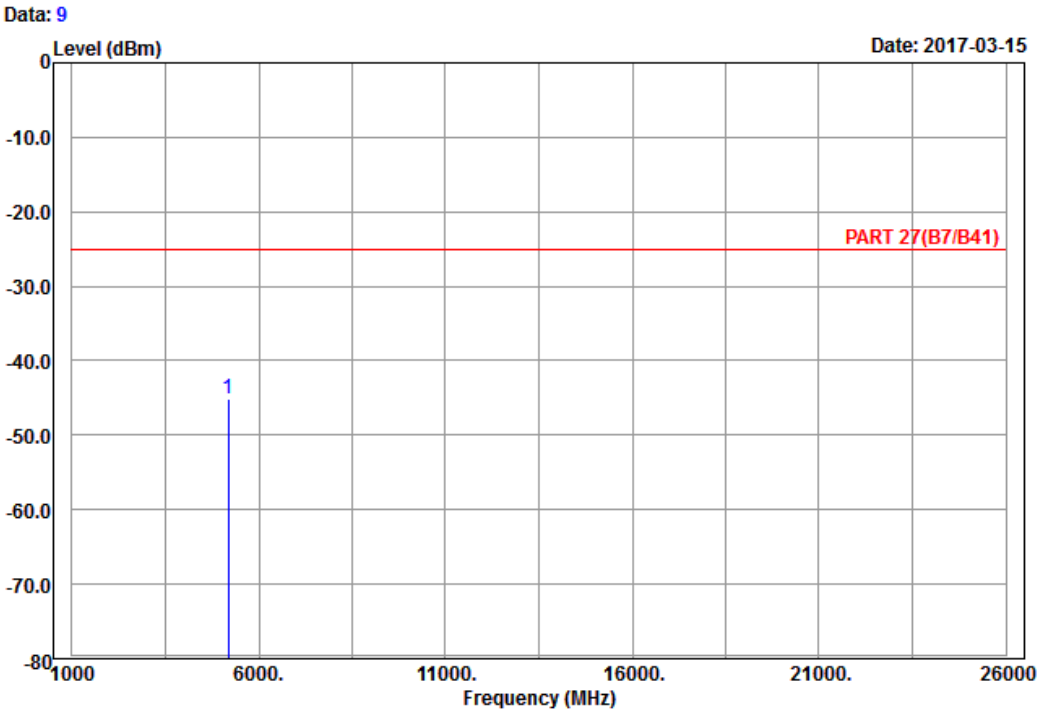


Site : 966 chamber 1
Condition: PART 27(B7/B41) Vertical
Remark : LTE_Band 41_Link_CH39750
Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	5012.00	-47.97	-67.05	-25.00	-22.97	19.08	Peak

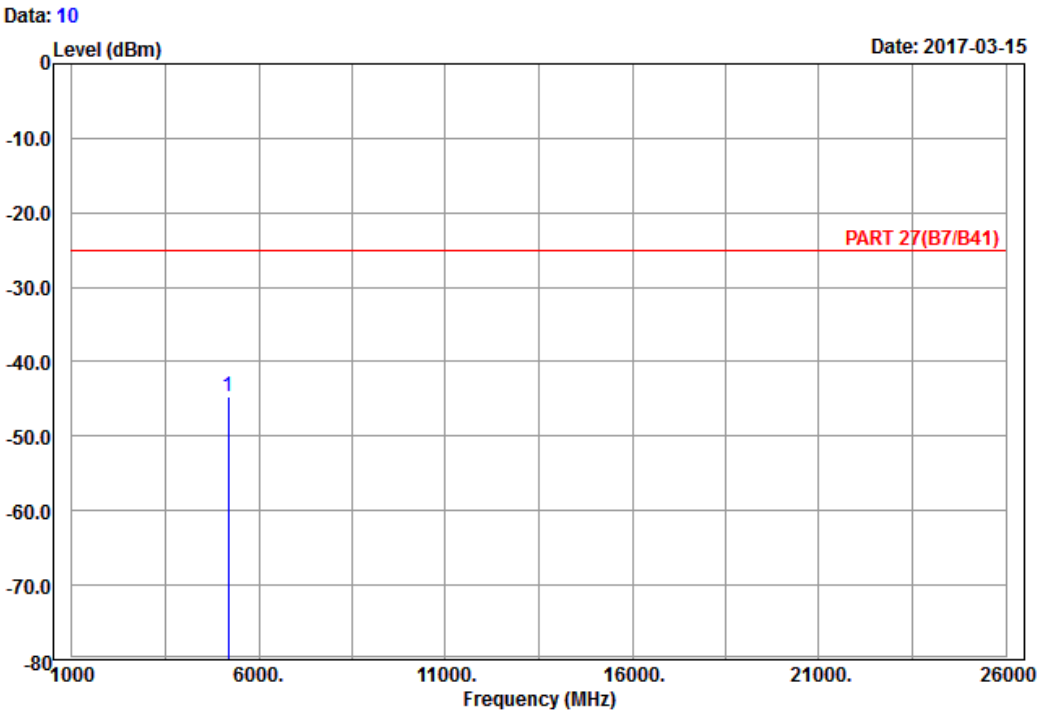
Middle Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 chamber 1
Condition: PART 27(B7/B41) Horizontal
Remark : LTE_Band 41_Link_CH40620
Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	5186.00	-45.21	-65.33	-25.00	-20.21	20.12	Peak

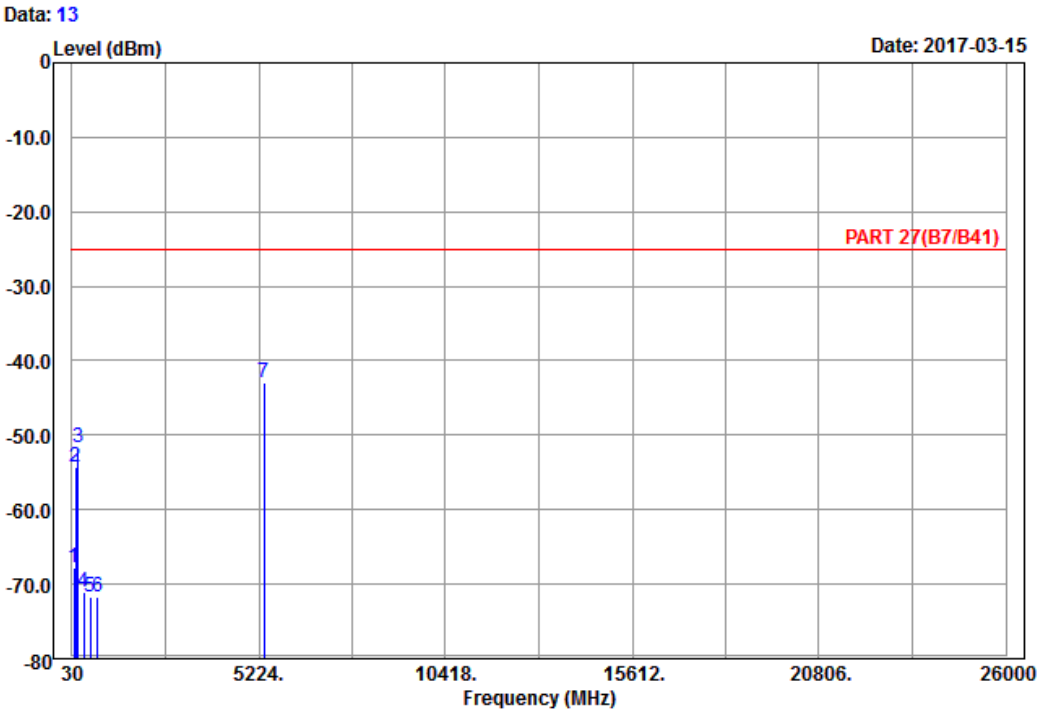


Site : 966 chamber 1
Condition: PART 27(B7/B41) Vertical
Remark : LTE_Band 41_Link_CH40620
Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1 pp	5186.00	-44.75	-64.87	-25.00	-19.75	20.12	Peak

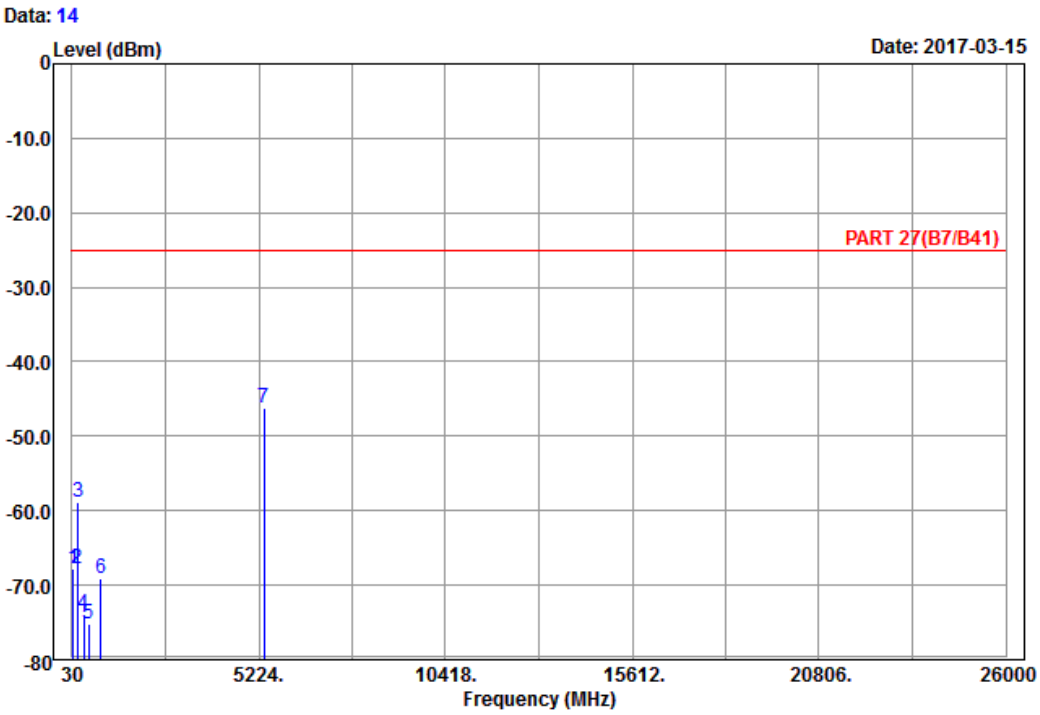
High Channel

Bureau Veritas Consumer Products Services Ltd.,Taoyuan Branch



Site : 966 chamber 1
Condition: PART 27(B7/B41) Horizontal
Remark : LTE_Band 41_Link_CH41490
Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	81.30	-67.83	-56.17	-25.00	-42.83	-11.66	Peak
2	142.05	-54.23	-46.47	-25.00	-29.23	-7.76	Peak
3	208.47	-51.61	-45.54	-25.00	-26.61	-6.07	Peak
4	360.90	-71.13	-66.32	-25.00	-46.13	-4.81	Peak
5	545.70	-71.70	-69.75	-25.00	-46.70	-1.95	Peak
6	749.40	-71.63	-70.32	-25.00	-46.63	-1.31	Peak
7 pp	5360.00	-42.90	-63.20	-25.00	-17.90	20.30	Peak



Site : 966 chamber 1
Condition: PART 27(B7/B41) Vertical
Remark : LTE_Band 41_Link_CH41490
Tested by: Charles Hsiao

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
	MHz	dBm	dBm	dBm	dB	dB	
1	71.85	-67.84	-55.32	-25.00	-42.84	-12.52	Peak
2	171.75	-67.73	-61.23	-25.00	-42.73	-6.50	Peak
3	203.34	-58.82	-52.69	-25.00	-33.82	-6.13	Peak
4	362.30	-73.95	-69.24	-25.00	-48.95	-4.71	Peak
5	496.00	-75.24	-70.10	-25.00	-50.24	-5.14	Peak
6	824.30	-69.18	-70.92	-25.00	-44.18	1.74	Peak
7 pp	5360.00	-46.17	-66.47	-25.00	-21.17	20.30	Peak

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab
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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
Tel: 886-3-6668565
Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety
Tel: 886-3-3183232
Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

--- END ---