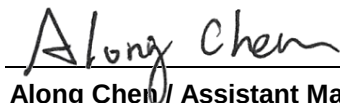


FCC Test Report

FCC ID : 2AQYEFMP169
Equipment : Mobile Phone
Model No. : F-02L
Brand Name : FUJITSU
Applicant : FUJITSU CONNECTED TECHNOLOGIES Ltd.
Address : 1-1, Kamikodanaka 4-chome, Nakahara-ku,
Kawasaki 211-8588, Japan
Standard : 47 CFR FCC Part 27
Received Date : Feb. 12, 2019
Tested Date : Feb. 15 ~ Feb. 23, 2019

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FG8D1403P27	Rev. 01	Initial issue	Mar. 22, 2019

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 27.50(b)(10) 27.50(c)(10)	Effective Radiated Power	Power[dBm]: LTE Band 12: 4.59 LTE Band 17: 4.65	Pass
2.1053 27.53(c) 27.53(g)	Radiated Emissions	Meet the requirement of limit	Pass
2.1053 / 27.53(f)	Radiated Spurious Emission in the 1559-1610MHz band	Meet the requirement of limit	Pass
2.1051 27.53(c) 27.53(g)	Conducted Emissions	Meet the requirement of limit	Pass
2.1051 27.53(c) 27.53(g)	Band Edge	Meet the requirement of limit	Pass
2.1049	Occupied Bandwidth	Meet the requirement of limit	Pass
2.1055 / 27.54	Frequency Stability	Meet the requirement of limit	Pass
27.50(d)(5)	Peak to Average Ratio	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared values of gain for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of the gain.

1 General Description

1.1 Information

1.1.1 Product Details

Product Name	Mobile Phone
Brand Name	FUJITSU
Model Name	F-02L
IMEI Code	353323100015584 / 353323100015543
H/W Version	v2.1.0
S/W Version	R016.5e

1.1.2 Specification of the Equipment under Test (EUT)

Operating Frequency	LTE Band 12 Channel Bandwidth: 1.4MHz: 699.7 MHz ~ 715.3 MHz Channel Bandwidth: 3MHz: 700.5 MHz ~ 714.5 MHz Channel Bandwidth: 5MHz: 701.5 MHz ~ 713.5 MHz Channel Bandwidth: 10MHz: 704 MHz ~ 711 MHz LTE Band 17 Channel Bandwidth: 5MHz: 706.5 MHz ~ 713.5 MHz Channel Bandwidth: 10MHz: 709 MHz ~ 711 MHz
Modulation Type	QPSK, 16QAM (Uplink)
Duplex Mode	FDD
Release Version	10
UE category	Cat. 4

1.1.3 Antenna Details

Ant. No.	Type	Connector	Gain (dBi)	Remark
1	Monopole	No	-16.9	---

1.1.4 EUT Operational Condition

Supply Voltage	3.8Vdc from battery: 9Vdc,1.5A from adapter (No bundle, support unit only)		
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (55°C)	☒ Tmin (-10°C)

1.1.5 Accessories

No.	Equipment	Description
1	Battery	Brand: FUJITSU CONNECTED TECHNOLOGIES LIMITED Model Name: CA54310-0074 Power Rating: 3.8Vdc, 2,780mAh, 10.6Wh

1.1.6 Maximum ERP and Emission Designator

Mode	Modulation	Maximum ERP (W)	Emission Designator
LTE Band 12, CB: 1.4MHz	QPSK	0.003	1M09G7D
LTE Band 12, CB: 1.4MHz	16QAM	0.002	1M08W7D
LTE Band 12, CB: 3MHz	QPSK	0.003	2M69G7D
LTE Band 12, CB: 3MHz	16QAM	0.002	2M68W7D
LTE Band 12, CB: 5MHz	QPSK	0.003	4M47G7D
LTE Band 12, CB: 5MHz	16QAM	0.002	4M47W7D
LTE Band 12, CB: 10MHz	QPSK	0.003	8M95G7D
LTE Band 12, CB: 10MHz	16QAM	0.002	8M95W7D
LTE Band 17, CB: 5MHz	QPSK	0.003	4M47G7D
LTE Band 17, CB: 5MHz	16QAM	0.002	4M47W7D
LTE Band 17, CB: 10MHz	QPSK	0.003	8M95G7D
LTE Band 17, CB: 10MHz	16QAM	0.002	8M95W7D

1.1.7 Operating Channel List

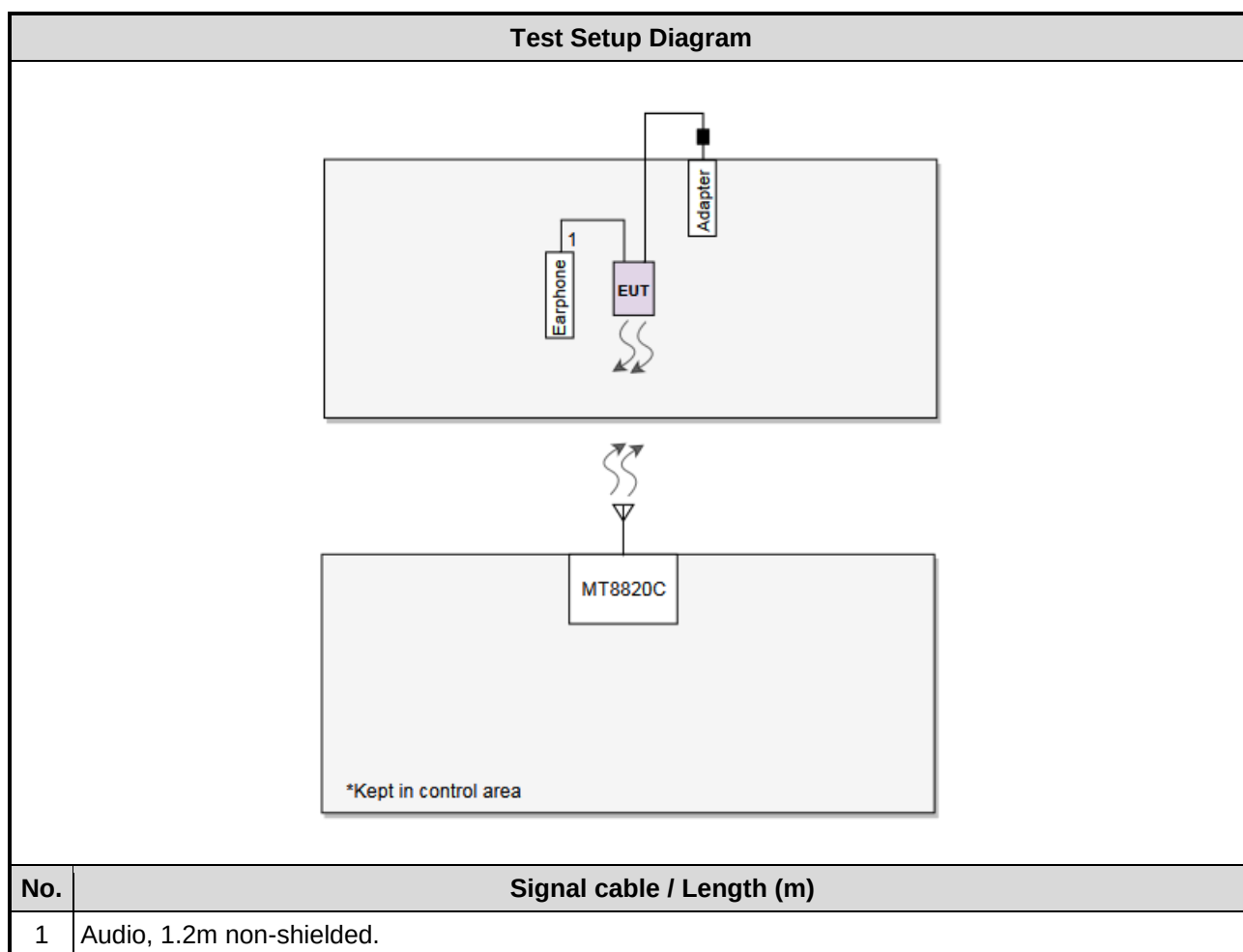
LTE Band 12		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
1.4	23017	699.7
1.4	23095	707.5
1.4	23173	715.3
3	23025	700.5
3	23095	707.5
3	23165	714.5
5	23035	701.5
5	23095	707.5
5	23155	713.5
10	23060	704.0
10	23095	707.5
10	23130	711.0

LTE Band 17		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
5	23755	706.5
5	23790	710.0
5	23825	713.5
10	23780	709.0
10	23790	710.0
10	23800	711.0

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	S/N	Remarks
1	Earphone	APPLE	MD827FE/A	6	---
2	Adapter	NTT docomo	AC Adapter 06	---	Provided by applicant.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 27, 2018	Dec. 26, 2019
Receiver	R&S	ESR3	101658	Dec. 11, 2018	Dec. 10, 2019
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 18, 2018	Jul. 17, 2019
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 18, 2018	Dec. 17, 2019
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2018	Nov. 14, 2019
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 09, 2018	Nov. 08, 2019
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 08, 2018	Oct. 07, 2019
Preamplifier	EMC	EMC02325	980225	Jul. 20, 2018	Jul. 19, 2019
Preamplifier	Agilent	83017A	MY39501308	Oct. 04, 2018	Oct. 03, 2019
Preamplifier	EMC	EMC184045B	980192	Aug. 09, 2018	Aug. 08, 2019
RF Cable	EMC	EMC104-SM-SM-80 00	181106	Oct. 08, 2018	Oct. 07, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 08, 2018	Oct. 07, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 08, 2018	Oct. 07, 2019
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 08, 2018	Oct. 07, 2019
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 08, 2018	Oct. 07, 2019
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 08, 2018	Oct. 07, 2019
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 16, 2018	Apr. 15, 2019
Spectrum Analyzer	Keysight	N9010A	MY54510374	Jun. 21, 2018	Jun. 20, 2019
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 05, 2018	Dec. 04, 2019
Power Meter	Anritsu	ML2495A	1241002	Oct. 09, 2018	Oct. 08, 2019
Power Sensor	Anritsu	MA2411B	1207366	Oct. 09, 2018	Oct. 08, 2019
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Apr. 08, 2018	Apr. 07, 2019
AC POWER SOURCE	APC	AFC-500W	F312060012	Nov. 29, 2018	Nov. 28, 2019
Measurement Software	Sporton	SENSE-15407_NII	V5.9	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 27

ANSI C63.4-2014

ANSI C63.26-2015

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.139 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Conducted emission	± 2.680 dB
Radiated emission ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB
Time	$\pm 0.1\%$
Temperature	$\pm 0.8^{\circ}\text{C}$

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH01-WS	23-24°C / 64-65%	Akun Chung
RF Conducted	TH01-WS	20°C / 66%	Aska Huang

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

LTE Band 12			
Test item	Channel Bandwidths	Modulation	Test channel
E.R.P	1.4 MHz	QPSK / 16QAM	23017 / 23095 / 23173
Conducted Emissions	3 MHz	QPSK / 16QAM	23025 / 23095 / 23165
Occupied Bandwidth	5 MHz	QPSK / 16QAM	23035 / 23095 / 23155
Peak to Average Ratio	10 MHz	QPSK / 16QAM	23060 / 23095 / 23130
Radiated Emission ≤ 1GHz	1.4 MHz	QPSK	23095
	3 MHz	QPSK	23095
	5 MHz	QPSK	23095
	10 MHz	QPSK	23095
Radiated Emission > 1GHz	1.4 MHz	QPSK	20407 / 20525 / 20643
	3 MHz	QPSK	20415 / 20525 / 20635
	5 MHz	QPSK	20425 / 20525 / 20625
	10 MHz	QPSK	20450 / 20525 / 20600
Band Edge	1.4 MHz	QPSK / 16QAM	20407 / 20643
	3 MHz	QPSK / 16QAM	20415 / 20635
	5 MHz	QPSK / 16QAM	20425 / 20625
	10 MHz	QPSK / 16QAM	20450 / 20600
Frequency Stability	1.4 MHz	QPSK	23095
	3 MHz	QPSK	23095
	5 MHz	QPSK	23095
	10 MHz	QPSK	23095
NOTE:			
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.			

LTE Band 17			
Test item	Channel Bandwidth	Modulation	Test channel
E.R.P Conducted Emissions Occupied Bandwidth Peak to Average Ratio	5 MHz 10 MHz	QPSK / 16QAM QPSK / 16QAM	23755, 23790, 23825 23780, 23790, 23800
Radiated Emission $\leq$ 1GHz	5 MHz 10 MHz	QPSK QPSK	23755 23780
Radiated Emission $>$ 1GHz	5 MHz 10 MHz	QPSK QPSK	23755, 23790, 23825 23780, 23790, 23800
Band Edge	5 MHz 10 MHz	QPSK / 16QAM QPSK / 16QAM	23755, 23825 23780, 23800
Frequency Stability	5 MHz 10 MHz	QPSK QPSK	23825 23790
Note: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Z-plane results were found as the worst case and were shown in this report.			

3 Test Results

3.1 Effective Radiated Power

3.1.1 Limit of Effective Radiated Power

Portable stations (hand-held devices) are limited to 3 watts ERP.

3.1.2 Test Procedures

For E.R.P measurement

EPR can be calculated by below formula from KDB 412172 D01.

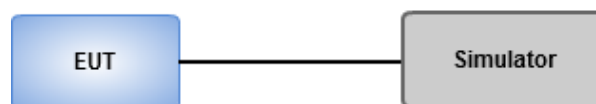
1. $EIRP = P_T + G_T - L_C$
 P_T = transmitter output power, in dBm.
 G_T = gain of the transmitting antenna, in dBi (EIRP).
 L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.
2. $ERP = EIRP - 2.15 \text{ dB}$.

For Conducted power measurement

1. The EUT links up with simulator and is set to maximum output power level at low / middel / high channel.
2. Measure the output power of low / middle / high channel of the EUT

3.1.3 Test Setup

Conducted Power Measurement



3.1.4 Test Result of Conducted power (dBm)

Band / Channel Bandwidth			LTE Band 12 / CB: 1.4MHz		
Channel			23017	23095	23173
Frequency (MHz)			699.7	707.5	715.3
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	22.95	23.48	23.01
	1	3	23.33	23.49	23.41
	1	5	23.19	23.22	22.93
	3	0	22.48	22.48	22.37
	3	1	22.35	22.61	22.40
	3	3	22.35	22.35	22.45
	6	0	22.36	22.39	22.38
16QAM	1	0	22.08	22.26	22.18
	1	3	22.04	22.15	22.11
	1	5	22.13	21.96	21.89
	3	0	21.43	21.56	21.25
	3	1	21.30	21.62	21.32
	3	3	21.29	21.37	21.30
	6	0	21.56	21.72	21.49

Band / Channel Bandwidth			LTE Band 12 / CB: 3MHz		
Channel			23025	23095	23165
Frequency (MHz)			700.5	707.5	714.5
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.06	23.49	23.10
	1	8	23.35	23.39	23.41
	1	14	23.29	23.34	22.90
	8	0	22.37	22.38	22.31
	8	4	22.40	22.60	22.53
	8	7	22.35	22.40	22.38
	15	0	22.51	22.56	22.32
16QAM	1	0	22.25	22.27	22.14
	1	8	22.11	22.29	22.01
	1	14	22.10	21.97	22.04
	8	0	21.38	21.44	21.16
	8	4	21.33	21.73	21.47
	8	7	21.24	21.50	21.39
	15	0	21.42	21.62	21.64

Band / Channel Bandwidth			LTE Band 12 / CB: 5MHz		
Channel			23035	23095	23155
Frequency (MHz)			701.5	707.5	713.5
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.10	23.51	23.10
	1	12	23.46	23.59	23.43
	1	24	23.37	23.40	23.07
	12	0	22.54	22.53	22.50
	12	7	22.42	22.63	22.55
	12	13	22.48	22.52	22.50
	25	0	22.52	22.58	22.49
16QAM	1	0	22.28	22.35	22.21
	1	12	22.15	22.34	22.12
	1	24	22.17	22.08	22.07
	12	0	21.55	21.57	21.31
	12	7	21.46	21.77	21.49
	12	13	21.42	21.56	21.47
	25	0	21.58	21.74	21.64

Band / Channel Bandwidth			LTE Band 12 / CB: 10MHz		
Channel			23060	23095	23130
Frequency (MHz)			704	707.5	711
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.20	23.23	23.26
	1	25	23.44	23.64	23.39
	1	49	23.31	23.44	23.07
	25	0	22.50	22.58	22.55
	25	12	22.65	22.57	22.50
	25	25	22.63	22.48	22.52
	50	0	22.55	22.44	22.46
16QAM	1	0	22.22	21.92	22.17
	1	25	22.49	22.45	22.53
	1	49	22.15	22.18	22.15
	25	0	21.56	21.83	21.57
	25	12	21.70	21.56	21.52
	25	25	21.66	21.40	21.77
	50	0	21.51	21.48	21.44

Band / Channel Bandwidth			LTE Band 17 / CB: 5MHz		
Channel			23755	23790	23825
Frequency (MHz)			706.5	710.0	713.5
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.23	23.16	23.00
	1	12	23.56	23.57	23.58
	1	24	23.10	22.82	23.09
	12	0	22.40	22.43	22.36
	12	7	22.43	22.42	22.48
	12	13	22.48	22.38	22.32
	25	0	22.46	22.29	22.34
16QAM	1	0	22.08	22.03	22.00
	1	12	22.18	22.44	22.39
	1	24	22.05	21.80	21.97
	12	0	21.56	21.55	21.47
	12	7	21.40	21.73	21.63
	12	13	21.55	21.63	21.57
	25	0	21.40	21.38	21.36

Band / Channel Bandwidth			LTE Band 17 / CB: 10MHz		
Channel			23780	23790	23800
Frequency (MHz)			709.0	710.0	711.0
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.33	23.35	23.12
	1	25	23.56	23.70	23.61
	1	49	23.21	23.01	23.12
	25	0	22.56	22.55	22.45
	25	12	22.55	22.52	22.50
	25	25	22.57	22.48	22.37
	50	0	22.56	22.48	22.47
16QAM	1	0	22.21	22.22	22.03
	1	25	22.35	22.62	22.56
	1	49	22.13	21.94	22.00
	25	0	21.71	21.71	21.47
	25	12	21.47	21.78	21.65
	25	25	21.59	21.73	21.62
	50	0	21.51	21.50	21.40

3.1.5 Test Result of Effective Radiated Power (dBm)

LTE Band 12 CB:1.4MHz	Channel	Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.R.P Power (dBm)	E.R.P Power (W)	E.R.P Limit (W)
QPSK	23017	699.7	1	0	22.95	-16.9	6.05	3.90	0.002	3
			1	3	23.33	-16.9	6.43	4.28	0.003	3
			1	5	23.19	-16.9	6.29	4.14	0.003	3
			3	0	22.48	-16.9	5.58	3.43	0.002	3
			3	1	22.35	-16.9	5.45	3.30	0.002	3
			3	3	22.35	-16.9	5.45	3.30	0.002	3
			6	0	22.36	-16.9	5.46	3.31	0.002	3
	23095	707.5	1	0	23.48	-16.9	6.58	4.43	0.003	3
			1	3	23.49	-16.9	6.59	4.44	0.003	3
			1	5	23.22	-16.9	6.32	4.17	0.003	3
			3	0	22.48	-16.9	5.58	3.43	0.002	3
			3	1	22.61	-16.9	5.71	3.56	0.002	3
			3	3	22.35	-16.9	5.45	3.30	0.002	3
			6	0	22.39	-16.9	5.49	3.34	0.002	3
	23173	715.3	1	0	23.01	-16.9	6.11	3.96	0.002	3
			1	3	23.41	-16.9	6.51	4.36	0.003	3
			1	5	22.93	-16.9	6.03	3.88	0.002	3
			3	0	22.37	-16.9	5.47	3.32	0.002	3
			3	1	22.40	-16.9	5.50	3.35	0.002	3
			3	3	22.45	-16.9	5.55	3.40	0.002	3
			6	0	22.38	-16.9	5.48	3.33	0.002	3
16QAM	23017	699.7	1	0	22.08	-16.9	5.18	3.03	0.002	3
			1	3	22.04	-16.9	5.14	2.99	0.002	3
			1	5	22.13	-16.9	5.23	3.08	0.002	3
			3	0	21.43	-16.9	4.53	2.38	0.002	3
			3	1	21.30	-16.9	4.40	2.25	0.002	3
			3	3	21.29	-16.9	4.39	2.24	0.002	3
			6	0	21.56	-16.9	4.66	2.51	0.002	3
	23095	707.5	1	0	22.26	-16.9	5.36	3.21	0.002	3
			1	3	22.15	-16.9	5.25	3.10	0.002	3
			1	5	21.96	-16.9	5.06	2.91	0.002	3
			3	0	21.56	-16.9	4.66	2.51	0.002	3
			3	1	21.62	-16.9	4.72	2.57	0.002	3
			3	3	21.37	-16.9	4.47	2.32	0.002	3
			6	0	21.72	-16.9	4.82	2.67	0.002	3
	23173	715.3	1	0	22.18	-16.9	5.28	3.13	0.002	3
			1	3	22.11	-16.9	5.21	3.06	0.002	3
			1	5	21.89	-16.9	4.99	2.84	0.002	3
			3	0	21.25	-16.9	4.35	2.20	0.002	3
			3	1	21.32	-16.9	4.42	2.27	0.002	3
			3	3	21.30	-16.9	4.40	2.25	0.002	3
			6	0	21.49	-16.9	4.59	2.44	0.002	3

LTE Band 12 CB:3MHz	Channel	Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.R.P Power (dBm)	E.R.P Power (W)	E.R.P Limit (W)
QPSK	23025	700.5	1	0	23.06	-16.9	6.16	4.01	0.003	3
			1	8	23.35	-16.9	6.45	4.30	0.003	3
			1	14	23.29	-16.9	6.39	4.24	0.003	3
			8	0	22.37	-16.9	5.47	3.32	0.002	3
			8	4	22.40	-16.9	5.50	3.35	0.002	3
			8	7	22.35	-16.9	5.45	3.30	0.002	3
			15	0	22.51	-16.9	5.61	3.46	0.002	3
	23095	707.5	1	0	23.49	-16.9	6.59	4.44	0.003	3
			1	8	23.39	-16.9	6.49	4.34	0.003	3
			1	14	23.34	-16.9	6.44	4.29	0.003	3
			8	0	22.38	-16.9	5.48	3.33	0.002	3
			8	4	22.60	-16.9	5.70	3.55	0.002	3
			8	7	22.40	-16.9	5.50	3.35	0.002	3
			15	0	22.56	-16.9	5.66	3.51	0.002	3
	23165	714.5	1	0	23.10	-16.9	6.20	4.05	0.003	3
			1	8	23.41	-16.9	6.51	4.36	0.003	3
			1	14	22.90	-16.9	6.00	3.85	0.002	3
			8	0	22.31	-16.9	5.41	3.26	0.002	3
			8	4	22.53	-16.9	5.63	3.48	0.002	3
			8	7	22.38	-16.9	5.48	3.33	0.002	3
			15	0	22.32	-16.9	5.42	3.27	0.002	3
16QAM	23025	700.5	1	0	22.25	-16.9	5.35	3.20	0.002	3
			1	8	22.11	-16.9	5.21	3.06	0.002	3
			1	14	22.10	-16.9	5.20	3.05	0.002	3
			8	0	21.38	-16.9	4.48	2.33	0.002	3
			8	4	21.33	-16.9	4.43	2.28	0.002	3
			8	7	21.24	-16.9	4.34	2.19	0.002	3
			15	0	21.42	-16.9	4.52	2.37	0.002	3
	23095	707.5	1	0	22.27	-16.9	5.37	3.22	0.002	3
			1	8	22.29	-16.9	5.39	3.24	0.002	3
			1	14	21.97	-16.9	5.07	2.92	0.002	3
			8	0	21.44	-16.9	4.54	2.39	0.002	3
			8	4	21.73	-16.9	4.83	2.68	0.002	3
			8	7	21.50	-16.9	4.60	2.45	0.002	3
			15	0	21.62	-16.9	4.72	2.57	0.002	3
	23165	714.5	1	0	22.14	-16.9	5.24	3.09	0.002	3
			1	8	22.01	-16.9	5.11	2.96	0.002	3
			1	14	22.04	-16.9	5.14	2.99	0.002	3
			8	0	21.16	-16.9	4.26	2.11	0.002	3
			8	4	21.47	-16.9	4.57	2.42	0.002	3
			8	7	21.39	-16.9	4.49	2.34	0.002	3
			15	0	21.64	-16.9	4.74	2.59	0.002	3

LTE Band 12 CB:5MHz	Channel	Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.R.P Power (dBm)	E.R.P Power (W)	E.R.P Limit (W)
QPSK	23035	701.5	1	0	23.10	-16.9	6.20	4.05	0.003	3
			1	12	23.46	-16.9	6.56	4.41	0.003	3
			1	24	23.37	-16.9	6.47	4.32	0.003	3
			12	0	22.54	-16.9	5.64	3.49	0.002	3
			12	7	22.42	-16.9	5.52	3.37	0.002	3
			12	13	22.48	-16.9	5.58	3.43	0.002	3
			25	0	22.52	-16.9	5.62	3.47	0.002	3
	23095	707.5	1	0	23.51	-16.9	6.61	4.46	0.003	3
			1	12	23.59	-16.9	6.69	4.54	0.003	3
			1	24	23.40	-16.9	6.50	4.35	0.003	3
			12	0	22.53	-16.9	5.63	3.48	0.002	3
			12	7	22.63	-16.9	5.73	3.58	0.002	3
			12	13	22.52	-16.9	5.62	3.47	0.002	3
			25	0	22.58	-16.9	5.68	3.53	0.002	3
	23155	713.5	1	0	23.10	-16.9	6.20	4.05	0.003	3
			1	12	23.43	-16.9	6.53	4.38	0.003	3
			1	24	23.07	-16.9	6.17	4.02	0.003	3
			12	0	22.50	-16.9	5.60	3.45	0.002	3
			12	7	22.55	-16.9	5.65	3.50	0.002	3
			12	13	22.50	-16.9	5.60	3.45	0.002	3
			25	0	22.49	-16.9	5.59	3.44	0.002	3
16QAM	23035	701.5	1	0	22.28	-16.9	5.38	3.23	0.002	3
			1	12	22.15	-16.9	5.25	3.10	0.002	3
			1	24	22.17	-16.9	5.27	3.12	0.002	3
			12	0	21.55	-16.9	4.65	2.50	0.002	3
			12	7	21.46	-16.9	4.56	2.41	0.002	3
			12	13	21.42	-16.9	4.52	2.37	0.002	3
			25	0	21.58	-16.9	4.68	2.53	0.002	3
	23095	707.5	1	0	22.35	-16.9	5.45	3.30	0.002	3
			1	12	22.34	-16.9	5.44	3.29	0.002	3
			1	24	22.08	-16.9	5.18	3.03	0.002	3
			12	0	21.57	-16.9	4.67	2.52	0.002	3
			12	7	21.77	-16.9	4.87	2.72	0.002	3
			12	13	21.56	-16.9	4.66	2.51	0.002	3
			25	0	21.74	-16.9	4.84	2.69	0.002	3
	23155	713.5	1	0	22.21	-16.9	5.31	3.16	0.002	3
			1	12	22.12	-16.9	5.22	3.07	0.002	3
			1	24	22.07	-16.9	5.17	3.02	0.002	3
			12	0	21.31	-16.9	4.41	2.26	0.002	3
			12	7	21.49	-16.9	4.59	2.44	0.002	3
			12	13	21.47	-16.9	4.57	2.42	0.002	3
			25	0	21.64	-16.9	4.74	2.59	0.002	3

LTE Band 12 CB:10MHz	Channel	Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.R.P Power (dBm)	E.R.P Power (W)	E.R.P Limit (W)
QPSK	23060	704	1	0	23.20	-16.9	6.30	4.15	0.003	3
			1	25	23.44	-16.9	6.54	4.39	0.003	3
			1	49	23.31	-16.9	6.41	4.26	0.003	3
			25	0	22.50	-16.9	5.60	3.45	0.002	3
			25	12	22.65	-16.9	5.75	3.60	0.002	3
			25	25	22.63	-16.9	5.73	3.58	0.002	3
			50	0	22.55	-16.9	5.65	3.50	0.002	3
	23095	707.5	1	0	23.23	-16.9	6.33	4.18	0.003	3
			1	25	23.64	-16.9	6.74	4.59	0.003	3
			1	49	23.44	-16.9	6.54	4.39	0.003	3
			25	0	22.58	-16.9	5.68	3.53	0.002	3
			25	12	22.57	-16.9	5.67	3.52	0.002	3
			25	25	22.48	-16.9	5.58	3.43	0.002	3
			50	0	22.44	-16.9	5.54	3.39	0.002	3
	23130	711	1	0	23.26	-16.9	6.36	4.21	0.003	3
			1	25	23.39	-16.9	6.49	4.34	0.003	3
			1	49	23.07	-16.9	6.17	4.02	0.003	3
			25	0	22.55	-16.9	5.65	3.50	0.002	3
			25	12	22.50	-16.9	5.60	3.45	0.002	3
			25	25	22.52	-16.9	5.62	3.47	0.002	3
			50	0	22.46	-16.9	5.56	3.41	0.002	3
16QAM	23060	704	1	0	22.22	-16.9	5.32	3.17	0.002	3
			1	25	22.49	-16.9	5.59	3.44	0.002	3
			1	49	22.15	-16.9	5.25	3.10	0.002	3
			25	0	21.56	-16.9	4.66	2.51	0.002	3
			25	12	21.70	-16.9	4.80	2.65	0.002	3
			25	25	21.66	-16.9	4.76	2.61	0.002	3
			50	0	21.51	-16.9	4.61	2.46	0.002	3
	23095	707.5	1	0	21.92	-16.9	5.02	2.87	0.002	3
			1	25	22.45	-16.9	5.55	3.40	0.002	3
			1	49	22.18	-16.9	5.28	3.13	0.002	3
			25	0	21.83	-16.9	4.93	2.78	0.002	3
			25	12	21.56	-16.9	4.66	2.51	0.002	3
			25	25	21.40	-16.9	4.50	2.35	0.002	3
			50	0	21.48	-16.9	4.58	2.43	0.002	3
	23130	711	1	0	22.17	-16.9	5.27	3.12	0.002	3
			1	25	22.53	-16.9	5.63	3.48	0.002	3
			1	49	22.15	-16.9	5.25	3.10	0.002	3
			25	0	21.57	-16.9	4.67	2.52	0.002	3
			25	12	21.52	-16.9	4.62	2.47	0.002	3
			25	25	21.77	-16.9	4.87	2.72	0.002	3
			50	0	21.44	-16.9	4.54	2.39	0.002	3

LTE Band 17 CB:5MHz	Channel	Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.R.P Power (dBm)	E.R.P Power (W)	E.R.P Limit (W)
QPSK	23755	706.5	1	0	23.23	-16.9	6.33	4.18	0.003	3
			1	12	23.56	-16.9	6.66	4.51	0.003	3
			1	24	23.10	-16.9	6.20	4.05	0.003	3
			12	0	22.40	-16.9	5.50	3.35	0.002	3
			12	7	22.43	-16.9	5.53	3.38	0.002	3
			12	13	22.48	-16.9	5.58	3.43	0.002	3
			25	0	22.46	-16.9	5.56	3.41	0.002	3
	23790	710	1	0	23.16	-16.9	6.26	4.11	0.003	3
			1	12	23.57	-16.9	6.67	4.52	0.003	3
			1	24	22.82	-16.9	5.92	3.77	0.002	3
			12	0	22.43	-16.9	5.53	3.38	0.002	3
			12	7	22.42	-16.9	5.52	3.37	0.002	3
			12	13	22.38	-16.9	5.48	3.33	0.002	3
			25	0	22.29	-16.9	5.39	3.24	0.002	3
	23825	713.5	1	0	23.00	-16.9	6.10	3.95	0.002	3
			1	12	23.58	-16.9	6.68	4.53	0.003	3
			1	24	23.09	-16.9	6.19	4.04	0.003	3
			12	0	22.36	-16.9	5.46	3.31	0.002	3
			12	7	22.48	-16.9	5.58	3.43	0.002	3
			12	13	22.32	-16.9	5.42	3.27	0.002	3
			25	0	22.34	-16.9	5.44	3.29	0.002	3
16QAM	23755	706.5	1	0	22.08	-16.9	5.18	3.03	0.002	3
			1	12	22.18	-16.9	5.28	3.13	0.002	3
			1	24	22.05	-16.9	5.15	3.00	0.002	3
			12	0	21.56	-16.9	4.66	2.51	0.002	3
			12	7	21.40	-16.9	4.50	2.35	0.002	3
			12	13	21.55	-16.9	4.65	2.50	0.002	3
			25	0	21.40	-16.9	4.50	2.35	0.002	3
	23790	710	1	0	22.03	-16.9	5.13	2.98	0.002	3
			1	12	22.44	-16.9	5.54	3.39	0.002	3
			1	24	21.80	-16.9	4.90	2.75	0.002	3
			12	0	21.55	-16.9	4.65	2.50	0.002	3
			12	7	21.73	-16.9	4.83	2.68	0.002	3
			12	13	21.63	-16.9	4.73	2.58	0.002	3
			25	0	21.38	-16.9	4.48	2.33	0.002	3
	23825	713.5	1	0	22.00	-16.9	5.10	2.95	0.002	3
			1	12	22.39	-16.9	5.49	3.34	0.002	3
			1	24	21.97	-16.9	5.07	2.92	0.002	3
			12	0	21.47	-16.9	4.57	2.42	0.002	3
			12	7	21.63	-16.9	4.73	2.58	0.002	3
			12	13	21.57	-16.9	4.67	2.52	0.002	3
			25	0	21.36	-16.9	4.46	2.31	0.002	3

LTE Band 17 CB:10MHz	Channel	Freq. (MHz)	RB	RB Offset	Conducted Average Power (dBm)	Ant. Gain (dB)	E.I.R.P Power (dBm)	E.R.P Power (dBm)	E.R.P Power (W)	E.R.P Limit (W)
QPSK	23780	709	1	0	23.33	-16.9	6.43	4.28	0.003	3
			1	25	23.56	-16.9	6.66	4.51	0.003	3
			1	49	23.21	-16.9	6.31	4.16	0.003	3
			25	0	22.56	-16.9	5.66	3.51	0.002	3
			25	12	22.55	-16.9	5.65	3.50	0.002	3
			25	25	22.57	-16.9	5.67	3.52	0.002	3
			50	0	22.56	-16.9	5.66	3.51	0.002	3
	23790	710	1	0	23.35	-16.9	6.45	4.30	0.003	3
			1	25	23.70	-16.9	6.80	4.65	0.003	3
			1	49	23.01	-16.9	6.11	3.96	0.002	3
			25	0	22.55	-16.9	5.65	3.50	0.002	3
			25	12	22.52	-16.9	5.62	3.47	0.002	3
			25	25	22.48	-16.9	5.58	3.43	0.002	3
			50	0	22.48	-16.9	5.58	3.43	0.002	3
	23800	711	1	0	23.12	-16.9	6.22	4.07	0.003	3
			1	25	23.61	-16.9	6.71	4.56	0.003	3
			1	49	23.12	-16.9	6.22	4.07	0.003	3
			25	0	22.45	-16.9	5.55	3.40	0.002	3
			25	12	22.50	-16.9	5.60	3.45	0.002	3
			25	25	22.37	-16.9	5.47	3.32	0.002	3
			50	0	22.47	-16.9	5.57	3.42	0.002	3
16QAM	23780	709	1	0	22.21	-16.9	5.31	3.16	0.002	3
			1	25	22.35	-16.9	5.45	3.30	0.002	3
			1	49	22.13	-16.9	5.23	3.08	0.002	3
			25	0	21.71	-16.9	4.81	2.66	0.002	3
			25	12	21.47	-16.9	4.57	2.42	0.002	3
			25	25	21.59	-16.9	4.69	2.54	0.002	3
			50	0	21.51	-16.9	4.61	2.46	0.002	3
	23790	710	1	0	22.22	-16.9	5.32	3.17	0.002	3
			1	25	22.62	-16.9	5.72	3.57	0.002	3
			1	49	21.94	-16.9	5.04	2.89	0.002	3
			25	0	21.71	-16.9	4.81	2.66	0.002	3
			25	12	21.78	-16.9	4.88	2.73	0.002	3
			25	25	21.73	-16.9	4.83	2.68	0.002	3
			50	0	21.50	-16.9	4.60	2.45	0.002	3
	23800	711	1	0	22.03	-16.9	5.13	2.98	0.002	3
			1	25	22.56	-16.9	5.66	3.51	0.002	3
			1	49	22.00	-16.9	5.10	2.95	0.002	3
			25	0	21.47	-16.9	4.57	2.42	0.002	3
			25	12	21.65	-16.9	4.75	2.60	0.002	3
			25	25	21.62	-16.9	4.72	2.57	0.002	3
			50	0	21.40	-16.9	4.50	2.35	0.002	3

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

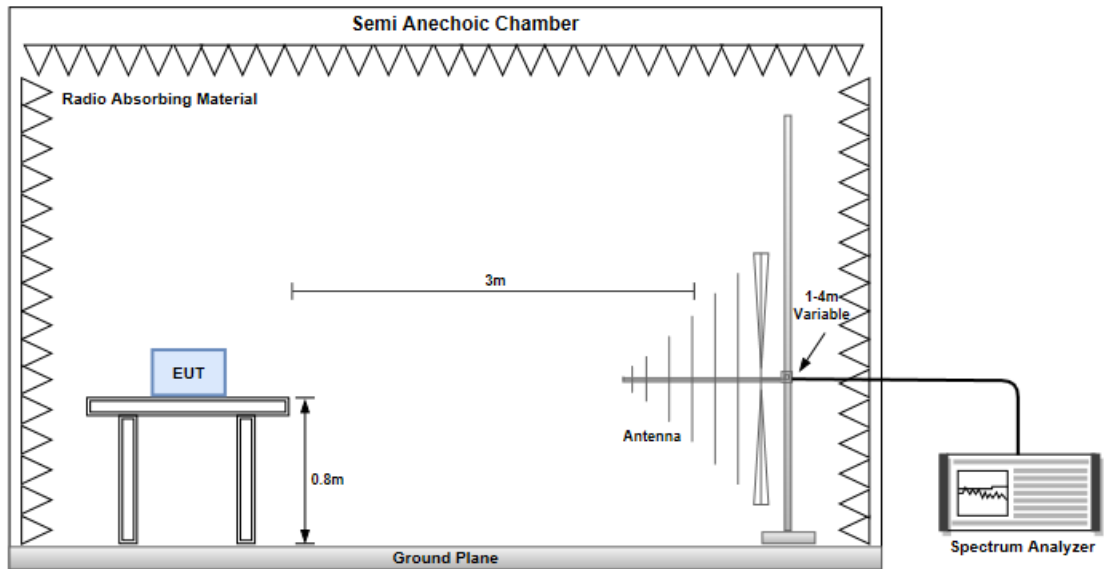
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.2.2 Test Procedures

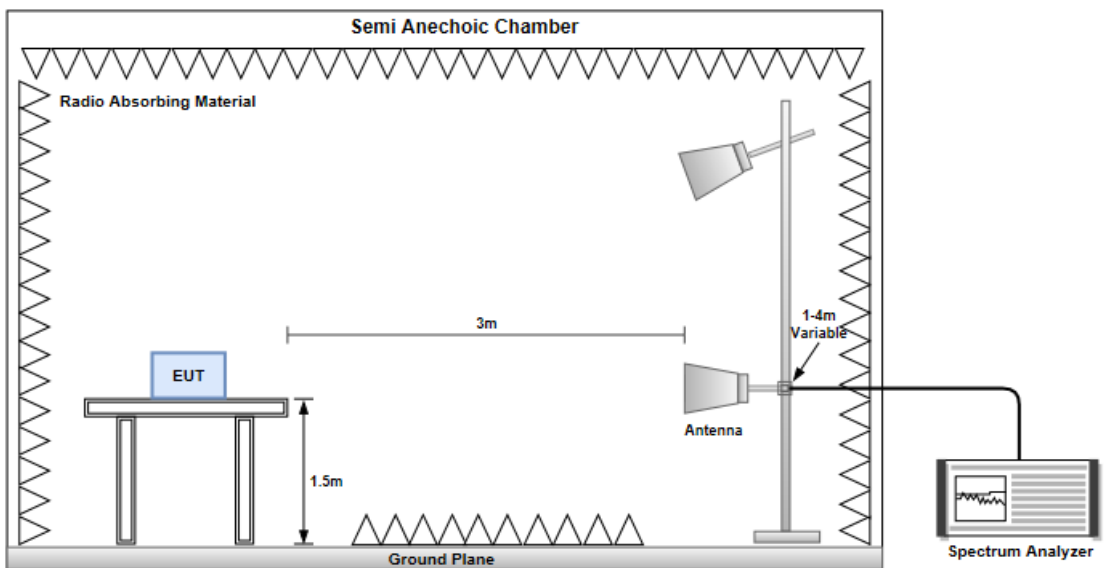
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. $E.I.R.P = \text{output power of step 4} + \text{gain of substitution antenna} - \text{cable loss of RF cable}$. ERP can be calculated by below formula:
 $E.R.P = E.I.R.P - 2.15\text{dB}$.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode	LTE Band 12, QPSK, CB:1.4 MHz, 1 RB Offset 3, Channel: 23095						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.97	H	-70.15	-13.00	-57.15	-77.40	-48.30	-19.70
90.14	H	-75.87	-13.00	-62.87	-72.28	-68.59	-5.13
191.99	H	-70.61	-13.00	-57.61	-65.62	-65.20	-3.26
279.29	H	-72.33	-13.00	-59.33	-68.01	-68.71	-1.47
348.16	H	-72.94	-13.00	-59.94	-72.25	-69.46	-1.33
378.23	H	-68.05	-13.00	-55.05	-67.71	-64.54	-1.36
30.00	V	-71.00	-13.00	-58.00	-69.81	-48.88	-19.97
61.04	V	-68.97	-13.00	-55.97	-66.80	-53.12	-13.70
90.14	V	-62.75	-13.00	-49.75	-60.76	-55.47	-5.13
185.20	V	-72.06	-13.00	-59.06	-72.26	-65.99	-3.92
277.35	V	-71.89	-13.00	-58.89	-71.36	-68.27	-1.47
501.42	V	-65.85	-13.00	-52.85	-67.63	-62.27	-1.43

Mode	LTE Band 12, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 23095						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-69.68	-13.00	-56.68	-77.27	-47.56	-19.97
48.43	H	-73.54	-13.00	-60.54	-75.72	-55.01	-16.38
90.14	H	-71.99	-13.00	-58.99	-68.40	-64.71	-5.13
120.21	H	-78.02	-13.00	-65.02	-74.65	-69.37	-6.50
431.58	H	-68.92	-13.00	-55.92	-69.06	-65.53	-1.24
474.26	H	-68.12	-13.00	-55.12	-68.63	-64.68	-1.29
30.00	V	-71.34	-13.00	-58.34	-70.15	-49.22	-19.97
59.10	V	-72.76	-13.00	-59.76	-70.27	-56.39	-14.22
90.14	V	-62.50	-13.00	-49.50	-60.51	-55.22	-5.13
143.49	V	-68.21	-13.00	-55.21	-68.27	-59.05	-7.01
192.96	V	-70.96	-13.00	-57.96	-70.35	-65.64	-3.17
353.01	V	-71.08	-13.00	-58.08	-70.63	-67.60	-1.33

NOTE: ERP = S.G power value + correction factor - 2.15.

Mode	LTE Band 12, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 23095						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
32.91	H	-70.39	-13.00	-57.39	-76.97	-49.09	-19.15
82.38	H	-74.69	-13.00	-61.69	-70.56	-65.65	-6.89
90.14	H	-73.37	-13.00	-60.37	-69.78	-66.09	-5.13
93.05	H	-75.77	-13.00	-62.77	-72.26	-68.69	-4.93
429.64	H	-75.42	-13.00	-62.42	-75.54	-72.02	-1.25
501.42	H	-69.26	-13.00	-56.26	-70.00	-65.68	-1.43
30.00	V	-70.64	-13.00	-57.64	-69.45	-48.52	-19.97
61.04	V	-71.00	-13.00	-58.00	-68.83	-55.15	-13.70
90.14	V	-59.62	-13.00	-46.62	-57.63	-52.34	-5.13
117.30	V	-71.00	-13.00	-58.00	-69.53	-62.52	-6.33
137.67	V	-73.78	-13.00	-60.78	-73.54	-64.60	-7.03
492.69	V	-70.43	-13.00	-57.43	-71.97	-66.89	-1.39

Mode	LTE Band 12, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 23095						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
63.95	H	-67.37	-13.00	-54.37	-65.82	-52.37	-12.85
90.14	H	-74.75	-13.00	-61.75	-71.16	-67.47	-5.13
164.83	H	-74.93	-13.00	-61.93	-72.14	-66.71	-6.07
194.90	H	-66.33	-13.00	-53.33	-60.82	-61.20	-2.98
229.92	H	-77.37	-13.00	-64.37	-71.61	-73.34	-1.88
318.09	H	-68.04	-13.00	-55.04	-65.54	-64.48	-1.41
30.00	V	-71.95	-13.00	-58.95	-70.76	-49.83	-19.97
67.83	V	-71.64	-13.00	-58.64	-68.58	-57.92	-11.57
90.14	V	-62.40	-13.00	-49.40	-60.41	-55.12	-5.13
198.78	V	-67.13	-13.00	-54.13	-65.91	-62.38	-2.60
276.38	V	-73.97	-13.00	-60.97	-73.44	-70.35	-1.47
502.39	V	-62.66	-13.00	-49.66	-64.49	-59.08	-1.43

NOTE: ERP = S.G power value + correction factor - 2.15.

Mode	LTE Band 17, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 23825						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-70.07	-13.00	-57.07	-77.66	-47.95	-19.97
90.14	H	-70.06	-13.00	-57.06	-66.47	-62.78	-5.13
167.74	H	-76.05	-13.00	-63.05	-73.24	-68.15	-5.75
508.21	H	-71.48	-13.00	-58.48	-72.33	-67.90	-1.43
537.31	H	-72.34	-13.00	-59.34	-73.63	-68.76	-1.43
709.97	H	-69.99	-13.00	-56.99	-74.40	-65.87	-1.97
30.00	V	-69.07	-13.00	-56.07	-67.88	-46.95	-19.97
69.77	V	-57.80	-13.00	-44.80	-53.73	-44.75	-10.90
90.14	V	-61.83	-13.00	-48.83	-59.84	-54.55	-5.13
132.82	V	-60.55	-13.00	-47.55	-59.95	-51.52	-6.88
174.53	V	-68.09	-13.00	-55.09	-68.82	-60.92	-5.02
457.77	V	-69.19	-13.00	-56.19	-69.96	-65.84	-1.20

Mode	LTE Band 17, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 23790						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
30.00	H	-70.28	-13.00	-57.28	-77.87	-48.16	-19.97
90.14	H	-71.60	-13.00	-58.60	-68.01	-64.32	-5.13
190.05	H	-74.31	-13.00	-61.31	-69.65	-68.71	-3.45
296.75	H	-67.08	-13.00	-54.08	-63.37	-63.47	-1.46
398.60	H	-77.02	-13.00	-64.02	-76.85	-73.49	-1.38
511.12	H	-75.77	-13.00	-62.77	-76.66	-72.19	-1.43
45.52	V	-66.84	-13.00	-53.84	-61.14	-47.83	-16.86
55.22	V	-68.89	-13.00	-55.89	-65.70	-51.59	-15.15
64.92	V	-8.21	-13.00	4.79	-66.62	6.50	-12.56
90.14	V	-63.86	-13.00	-50.86	-61.87	-56.58	-5.13
145.43	V	-62.60	-13.00	-49.60	-62.73	-53.49	-6.96
164.83	V	-69.29	-13.00	-56.29	-70.00	-61.07	-6.07

NOTE: ERP = S.G power value + correction factor - 2.15.

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode	LTE Band 12, QPSK, CB:1.4 MHz, 1 RB Offset 3, Channel: 23017						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2099.10	H	-56.45	-13.00	-43.45	-63.19	-59.87	5.57
3498.50	H	-54.39	-13.00	-41.39	-64.15	-59.48	7.24
4897.90	H	-49.82	-13.00	-36.82	-64.11	-54.27	6.60
2099.10	V	-56.95	-13.00	-43.95	-63.66	-60.37	5.57
3498.50	V	-53.94	-13.00	-40.94	-63.61	-59.03	7.24
4897.90	V	-51.02	-13.00	-38.02	-65.08	-55.47	6.60

Mode	LTE Band 12, QPSK, CB:1.4 MHz, 1 RB Offset 3, Channel: 23095						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2122.50	H	-56.48	-13.00	-43.48	-63.65	-59.71	5.38
3537.50	H	-54.67	-13.00	-41.67	-64.90	-59.66	7.14
4952.50	H	-51.34	-13.00	-38.34	-65.86	-55.75	6.56
2122.50	V	-56.37	-13.00	-43.37	-63.49	-59.60	5.38
3537.50	V	-54.47	-13.00	-41.47	-64.56	-59.46	7.14
4952.50	V	-51.76	-13.00	-38.76	-66.05	-56.17	6.56

Mode	LTE Band 12, QPSK, CB:1.4 MHz, 1 RB Offset 3, Channel: 23173						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2145.90	H	-55.01	-13.00	-42.01	-62.62	-58.06	5.20
3576.50	H	-53.20	-13.00	-40.20	-63.90	-58.10	7.05
5007.10	H	-49.93	-13.00	-36.93	-64.66	-54.31	6.53
2145.90	V	-56.05	-13.00	-43.05	-63.58	-59.10	5.20
3576.50	V	-53.29	-13.00	-40.29	-63.81	-58.19	7.05
5007.10	V	-50.76	-13.00	-37.76	-65.26	-55.14	6.53

NOTE: ERP = S.G power value + correction factor - 2.15.

Mode	LTE Band 12, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 23025						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2097.60	H	-56.43	-13.00	-43.43	-63.21	-59.83	5.55
3496.00	H	-54.46	-13.00	-41.46	-64.26	-59.54	7.23
4894.40	H	-49.96	-13.00	-36.96	-64.27	-54.41	6.60
2097.60	V	-56.13	-13.00	-43.13	-62.88	-59.53	5.55
3496.00	V	-54.37	-13.00	-41.37	-64.08	-59.45	7.23
4894.40	V	-49.72	-13.00	-36.72	-63.80	-54.17	6.60

Mode	LTE Band 12, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 23095						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2118.60	H	-57.41	-13.00	-44.41	-64.58	-60.64	5.38
3531.00	H	-55.43	-13.00	-42.43	-65.66	-60.42	7.14
4943.40	H	-48.55	-13.00	-35.55	-63.07	-52.96	6.56
2118.60	V	-56.46	-13.00	-43.46	-63.58	-59.69	5.38
3531.00	V	-53.43	-13.00	-40.43	-63.52	-58.42	7.14
4943.40	V	-50.03	-13.00	-37.03	-64.32	-54.44	6.56

Mode	LTE Band 12, QPSK, CB:3 MHz, 1 RB Offset 0, Channel: 23165						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2139.60	H	-55.26	-13.00	-42.26	-62.82	-58.33	5.22
3566.00	H	-53.26	-13.00	-40.26	-63.91	-58.17	7.06
4992.40	H	-48.62	-13.00	-35.62	-63.36	-52.99	6.52
2139.60	V	-55.79	-13.00	-42.79	-63.27	-58.86	5.22
3566.00	V	-52.77	-13.00	-39.77	-63.25	-57.68	7.06
4992.40	V	-48.23	-13.00	-35.23	-62.74	-52.60	6.52

NOTE: ERP = S.G power value + correction factor - 2.15.

Mode	LTE Band 12, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 23035						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2104.50	H	-55.51	-13.00	-42.51	-62.35	-58.88	5.52
3507.50	H	-54.49	-13.00	-41.49	-64.35	-59.56	7.22
4910.50	H	-49.89	-13.00	-36.89	-64.23	-54.33	6.59
2104.50	V	-55.54	-13.00	-42.54	-62.37	-58.91	5.52
3507.50	V	-53.55	-13.00	-40.55	-63.31	-58.62	7.22
4910.50	V	-50.16	-13.00	-37.16	-64.27	-54.60	6.59

Mode	LTE Band 12, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 23095						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2122.50	H	-55.20	-13.00	-42.20	-62.37	-58.43	5.38
3537.50	H	-53.58	-13.00	-40.58	-63.81	-58.57	7.14
4952.50	H	-49.76	-13.00	-36.76	-64.28	-54.17	6.56
2122.50	V	-55.77	-13.00	-42.77	-62.89	-59.00	5.38
3537.50	V	-53.59	-13.00	-40.59	-63.68	-58.58	7.14
4952.50	V	-51.98	-13.00	-38.98	-66.27	-56.39	6.56

Mode	LTE Band 12, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 23155						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2140.50	H	-54.89	-13.00	-41.89	-62.39	-57.98	5.24
3567.50	H	-52.98	-13.00	-39.98	-63.56	-57.90	7.07
4994.50	H	-49.80	-13.00	-36.80	-64.52	-54.17	6.52
2140.50	V	-55.78	-13.00	-42.78	-63.21	-58.87	5.24
3567.50	V	-53.75	-13.00	-40.75	-64.16	-58.67	7.07
4994.50	V	-50.62	-13.00	-37.62	-65.11	-54.99	6.52

NOTE: ERP = S.G power value + correction factor - 2.15.

Mode	LTE Band 12, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 23060						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2112.00	H	-56.05	-13.00	-43.05	-63.02	-59.37	5.47
3520.00	H	-54.44	-13.00	-41.44	-64.46	-59.48	7.19
4928.00	H	-50.05	-13.00	-37.05	-64.47	-54.48	6.58
2112.00	V	-56.50	-13.00	-43.50	-63.43	-59.82	5.47
3520.00	V	-53.84	-13.00	-40.84	-63.74	-58.88	7.19
4928.00	V	-50.48	-13.00	-37.48	-64.67	-54.91	6.58

Mode	LTE Band 12, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 23095						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2122.50	H	-56.31	-13.00	-43.31	-63.48	-59.54	5.38
3537.50	H	-54.65	-13.00	-41.65	-64.88	-59.64	7.14
4952.50	H	-49.75	-13.00	-36.75	-64.27	-54.16	6.56
2122.50	V	-56.86	-13.00	-43.86	-63.98	-60.09	5.38
3537.50	V	-53.83	-13.00	-40.83	-63.92	-58.82	7.14
4952.50	V	-49.98	-13.00	-36.98	-64.27	-54.39	6.56

Mode	LTE Band 12, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 23130						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2133.00	H	-55.02	-13.00	-42.02	-62.39	-58.17	5.30
3555.00	H	-53.43	-13.00	-40.43	-63.87	-58.38	7.10
4977.00	H	-48.65	-13.00	-35.65	-63.28	-53.04	6.54
2133.00	V	-55.52	-13.00	-42.52	-62.82	-58.67	5.30
3555.00	V	-52.34	-13.00	-39.34	-62.62	-57.29	7.10
4977.00	V	-49.46	-13.00	-36.46	-63.86	-53.85	6.54

NOTE: ERP = S.G power value + correction factor - 2.15.

Mode	LTE Band 17, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 23755						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2826.00	H	-55.48	-13.00	-42.48	-63.78	-59.80	6.47
3532.50	H	-55.11	-13.00	-42.11	-65.28	-60.12	7.16
4945.50	H	-51.82	-13.00	-38.82	-66.31	-56.23	6.56
2826.00	V	-56.15	-13.00	-43.15	-64.25	-60.47	6.47
3532.50	V	-52.53	-13.00	-39.53	-62.57	-57.54	7.16
4945.50	V	-50.01	-13.00	-37.01	-64.27	-54.42	6.56

Mode	LTE Band 17, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 23790						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2840.00	H	-54.86	-13.00	-41.86	-63.21	-59.18	6.47
3550.00	H	-54.60	-13.00	-41.60	-64.98	-59.56	7.11
4970.00	H	-51.06	-13.00	-38.06	-65.67	-55.45	6.54
2840.00	V	-55.78	-13.00	-42.78	-63.90	-60.10	6.47
3550.00	V	-53.74	-13.00	-40.74	-63.97	-58.70	7.11
4970.00	V	-50.89	-13.00	-37.89	-65.27	-55.28	6.54

Mode	LTE Band 17, QPSK, CB:5 MHz, 1 RB Offset 12, Channel: 23825						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2854.00	H	-64.17	-13.00	-51.17	-62.58	-68.48	6.46
3567.50	H	-53.68	-13.00	-40.68	-64.26	-58.60	7.07
4994.50	H	-49.80	-13.00	-36.80	-64.52	-54.17	6.52
2854.00	V	-56.37	-13.00	-43.37	-64.52	-60.68	6.46
3567.50	V	-52.86	-13.00	-39.86	-63.27	-57.78	7.07
4994.50	V	-50.84	-13.00	-37.84	-65.33	-55.21	6.52

NOTE: ERP = S.G power value + correction factor - 2.15.

Mode	LTE Band 17, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 23780						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2836.00	H	-54.40	-13.00	-41.40	-62.74	-58.72	6.47
3545.00	H	-53.52	-13.00	-40.52	-63.80	-58.49	7.12
4963.00	H	-49.28	-13.00	-36.28	-63.86	-53.68	6.55
2836.00	V	-55.18	-13.00	-42.18	-63.30	-59.50	6.47
3545.00	V	-52.71	-13.00	-39.71	-62.88	-57.68	7.12
4963.00	V	-49.55	-13.00	-36.55	-63.90	-53.95	6.55

Mode	LTE Band 17, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 23790						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2840.00	H	-55.23	-13.00	-42.23	-63.58	-59.55	6.47
3550.00	H	-54.34	-13.00	-41.34	-64.72	-59.30	7.11
4970.00	H	-49.67	-13.00	-36.67	-64.28	-54.06	6.54
2840.00	V	-54.46	-13.00	-41.46	-62.58	-58.78	6.47
3550.00	V	-53.04	-13.00	-40.04	-63.27	-58.00	7.11
4970.00	V	-49.89	-13.00	-36.89	-64.27	-54.28	6.54

Mode	LTE Band 17, QPSK, CB:10 MHz, 1 RB Offset 25, Channel: 23800						
Frequency (MHz)	Antenna Polarity	E.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
2844.00	H	-54.01	-13.00	-41.01	-62.38	-58.32	6.46
3555.00	H	-53.88	-13.00	-40.88	-64.32	-58.83	7.10
4977.00	H	-49.18	-13.00	-36.18	-63.81	-53.57	6.54
2844.00	V	-54.83	-13.00	-41.83	-62.96	-59.14	6.46
3555.00	V	-52.60	-13.00	-39.60	-62.88	-57.55	7.10
4977.00	V	-49.45	-13.00	-36.45	-63.85	-53.84	6.54

NOTE: ERP = S.G power value + correction factor - 2.15.

3.3 Conducted Emissions & Band Edge

3.3.1 Limit of Conducted Emissions & Band Edge

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13dBm.

3.3.2 Test Procedures

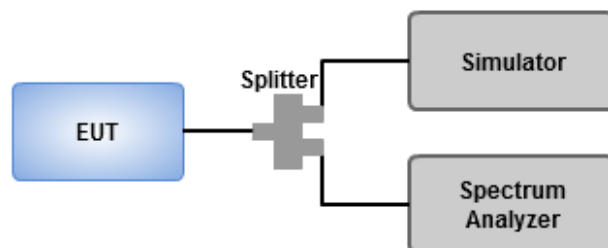
Out of band emission

1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30 MHz ~ 10 GHz.
3. Set RBW = 100 kHz, VBW = 300kHz, detector = RMS, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

Band edge

1. Lowest and highest operating channels are tested for this item.
2. Set RBW = 1% of EBW, VBW = 3 x RBW, detector = RMS, sweep time = auto.
3. Record the max trace value and capture the test plot of each sub frequency band.

3.3.3 Test Setup

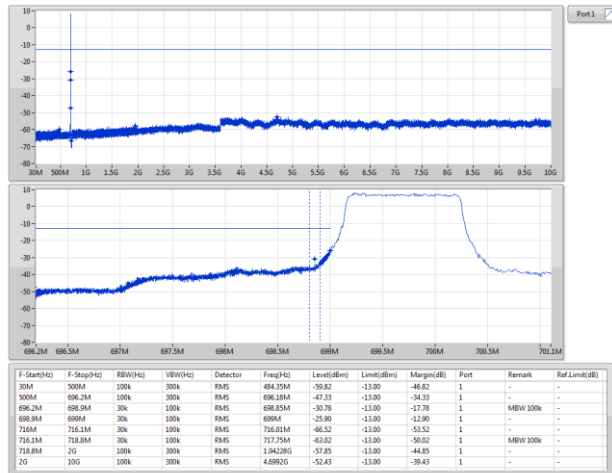


3.3.4 Test Result of Conducted Emissions & Band Edge

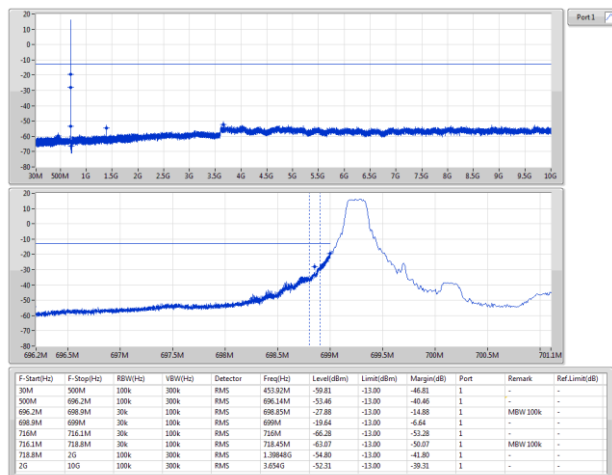
Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Port
Band 12	-	-	-	-	-	-	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX											
715.3MHz_QPSK_RB_1,#RB H	Pass	716M	716.1M	30k	100k	RMS	716M	-18.89	-13.00	-5.89	1
LTE_1.4MHz_Nss1,16QAM_1TX											
715.3MHz_16QAM_RB_1,#RB H	Pass	716M	716.1M	30k	100k	RMS	716M	-18.86	-13.00	-5.86	1
LTE_3MHz_Nss1,QPSK_1TX											
714.5MHz_QPSK_RB_1,#RB H	Pass	716M	716.1M	30k	100k	RMS	716.02M	-16.36	-13.00	-3.36	1
LTE_3MHz_Nss1,16QAM_1TX											
714.5MHz_16QAM_RB_1,#RB H	Pass	716M	716.1M	30k	100k	RMS	716M	-15.96	-13.00	-2.96	1
LTE_5MHz_Nss1,QPSK_1TX											
701.5MHz_QPSK_RB_1,#RB L	Pass	698.9M	699M	51k	160k	RMS	699M	-18.33	-13.00	-5.33	1
LTE_5MHz_Nss1,16QAM_1TX											
713.5MHz_16QAM_RB_1,#RB H	Pass	716M	716.1M	51k	160k	RMS	716M	-20.70	-13.00	-7.70	1
LTE_10MHz_Nss1,QPSK_1TX											
704MHz_QPSK_RB_1,#RB L	Pass	698.9M	699M	100k	300k	RMS	699M	-28.93	-13.00	-15.93	1
LTE_10MHz_Nss1,16QAM_1TX											
704MHz_16QAM_RB_1,#RB L	Pass	698.9M	699M	100k	300k	RMS	699M	-30.61	-13.00	-17.61	1

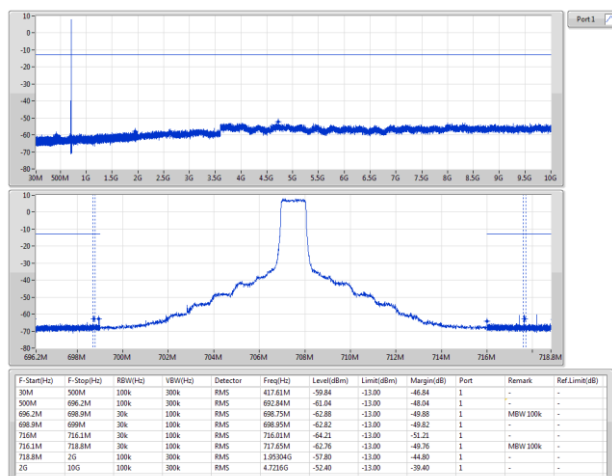
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699.7MHz_QPSK_RB 6,#RB 0



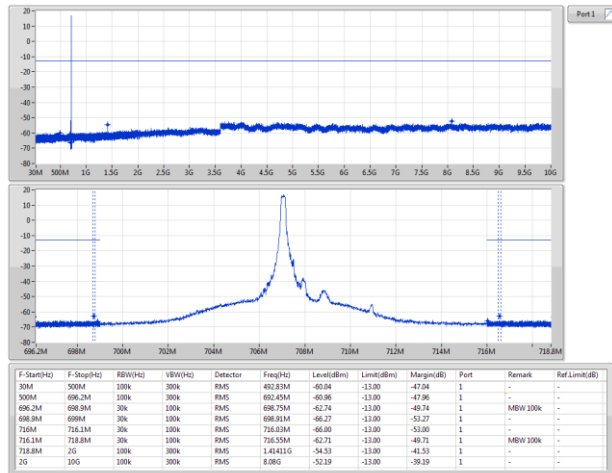
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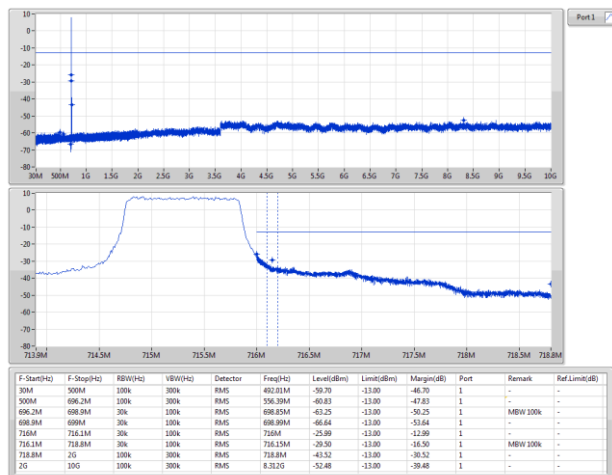
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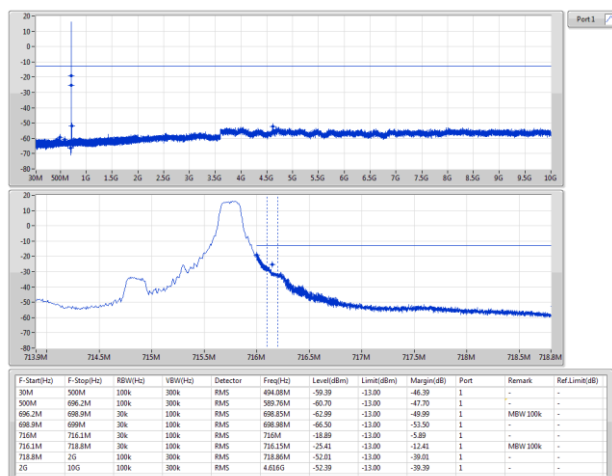
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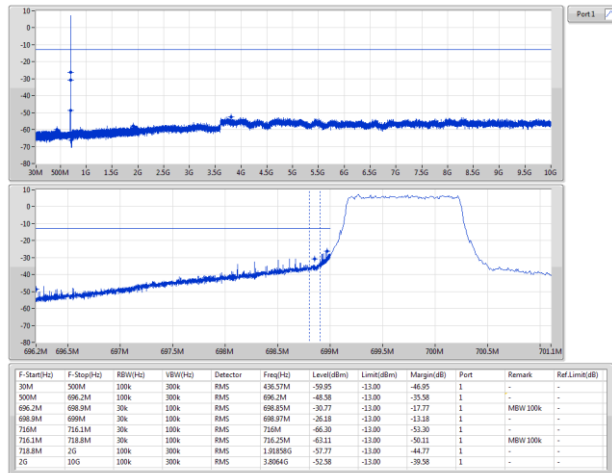
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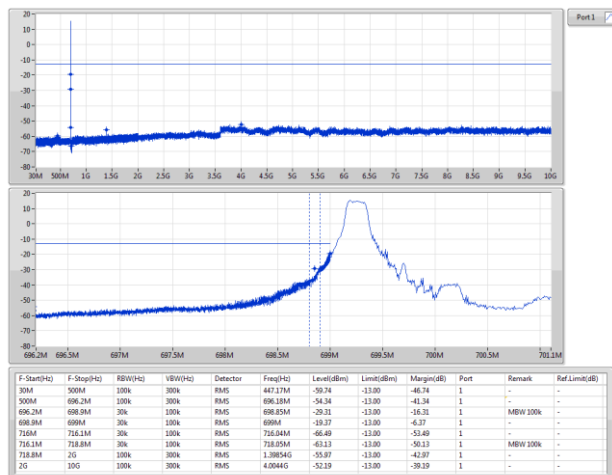
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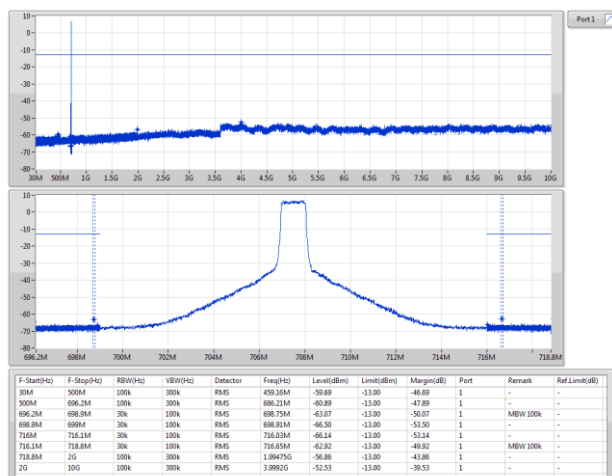
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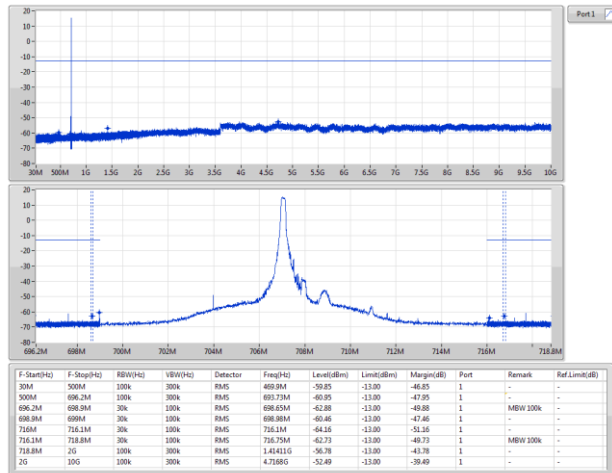
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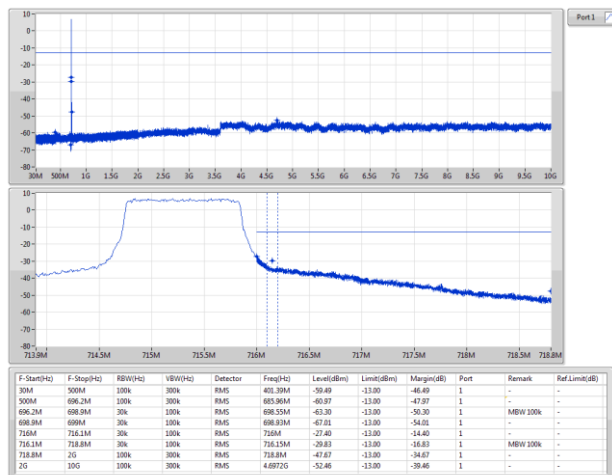
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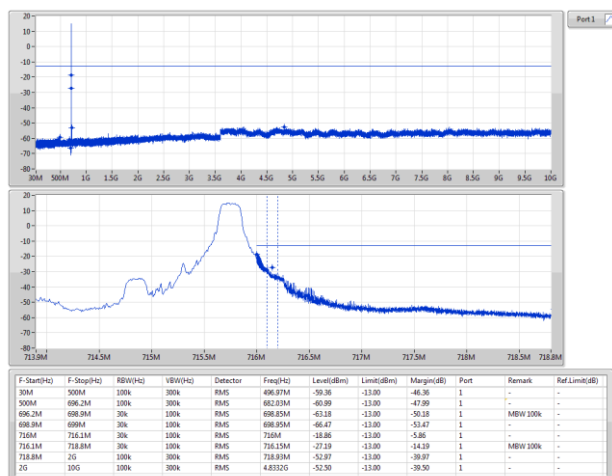
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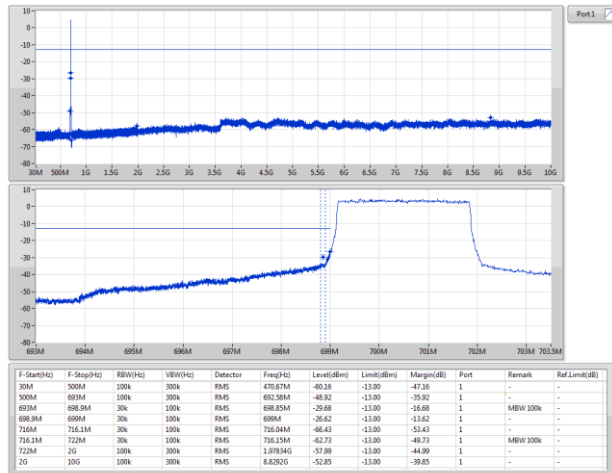
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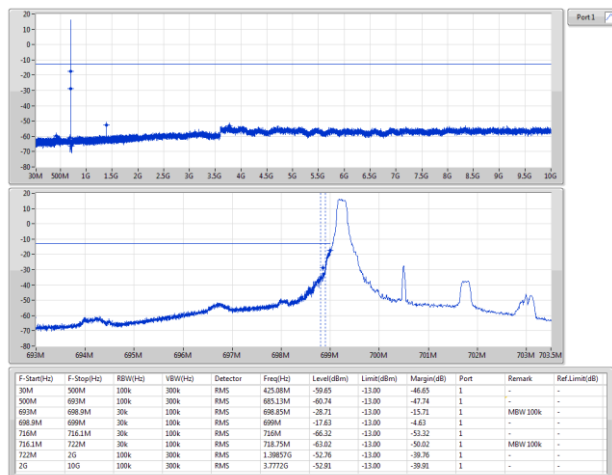
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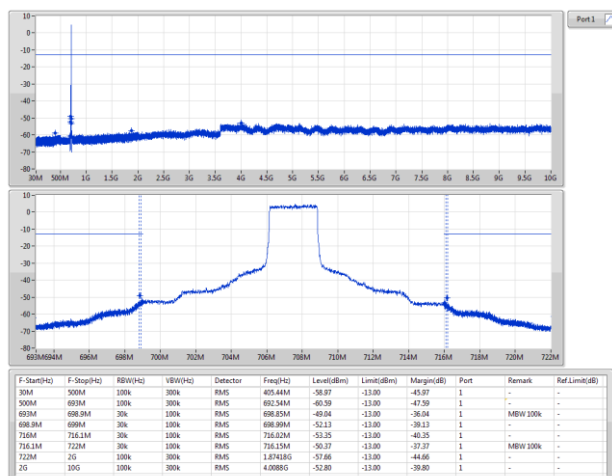
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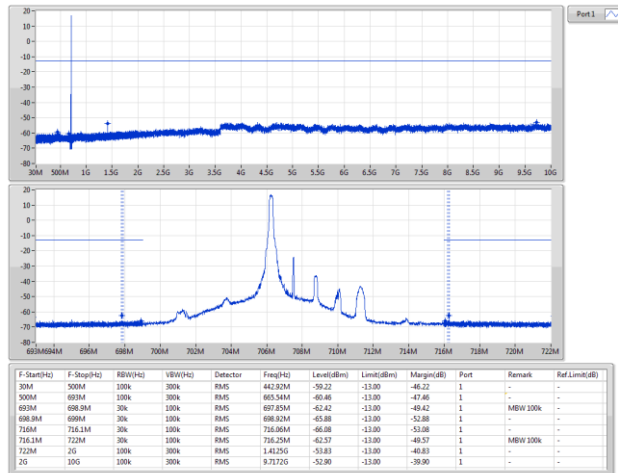
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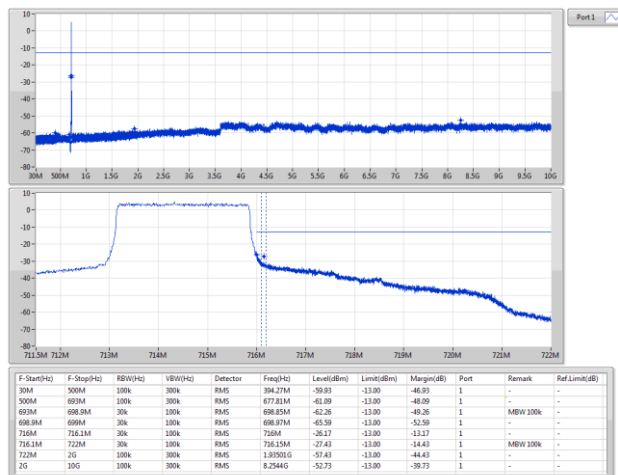
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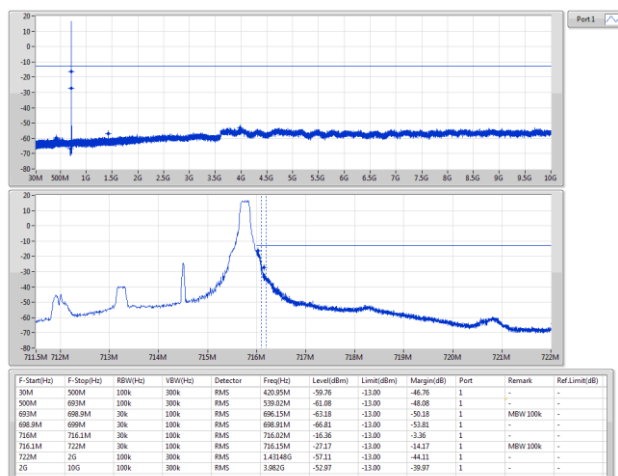
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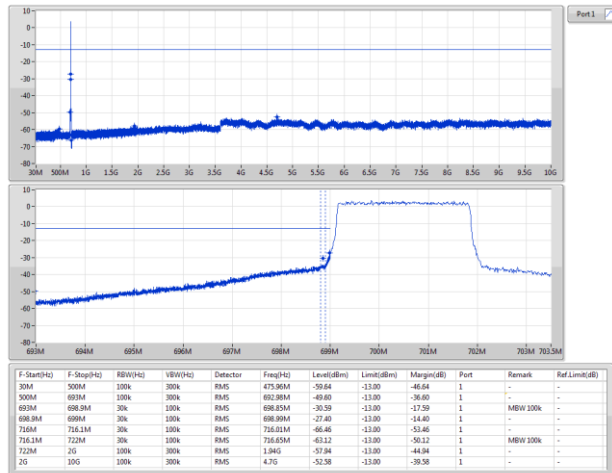
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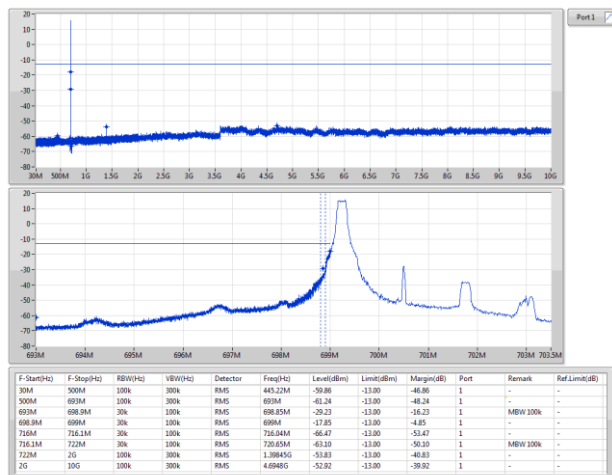
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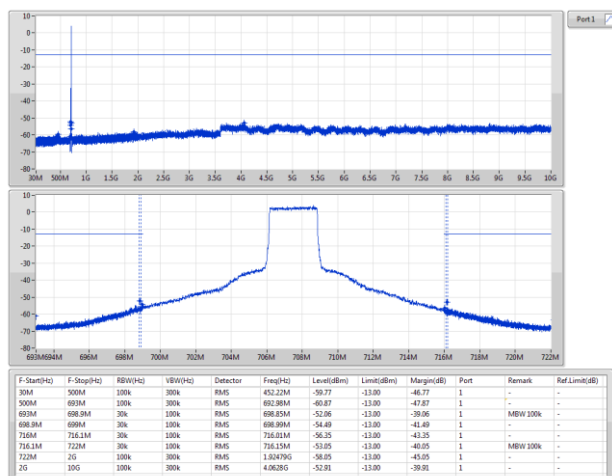
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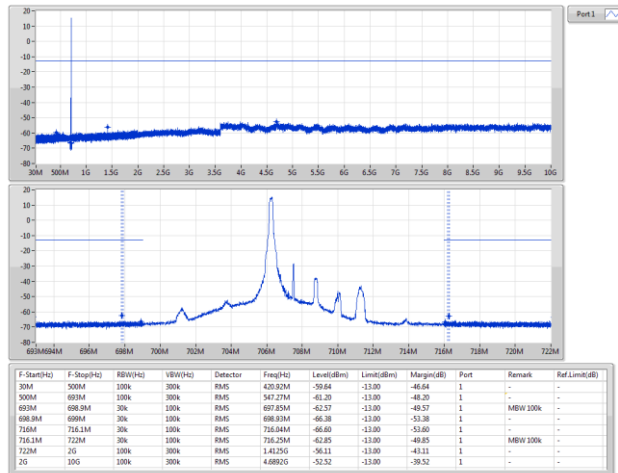
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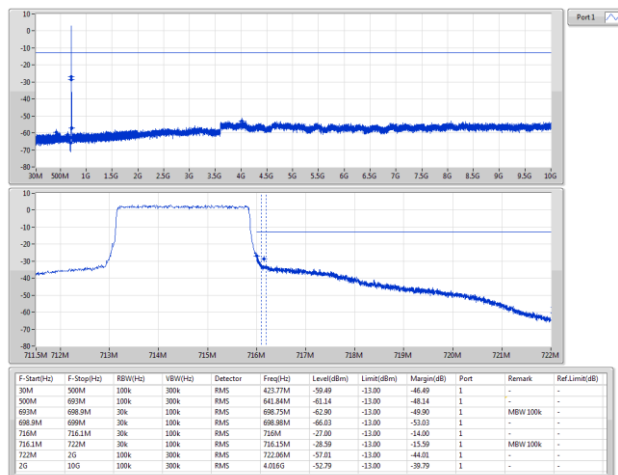
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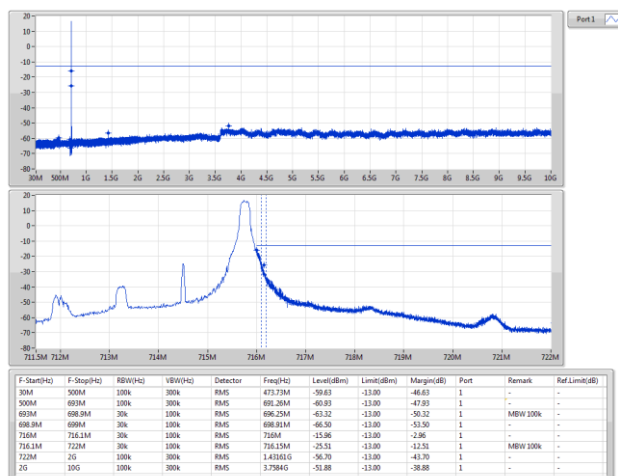
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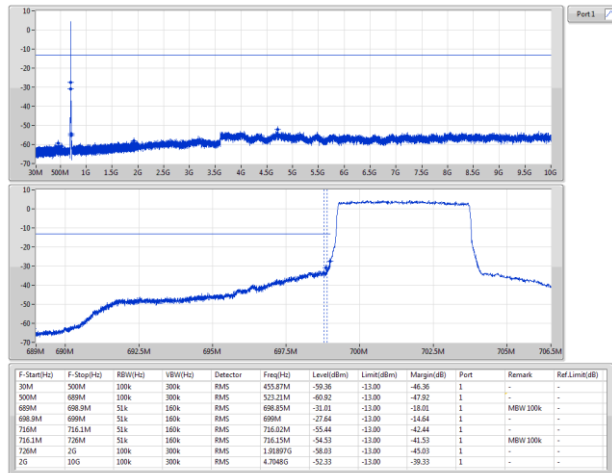
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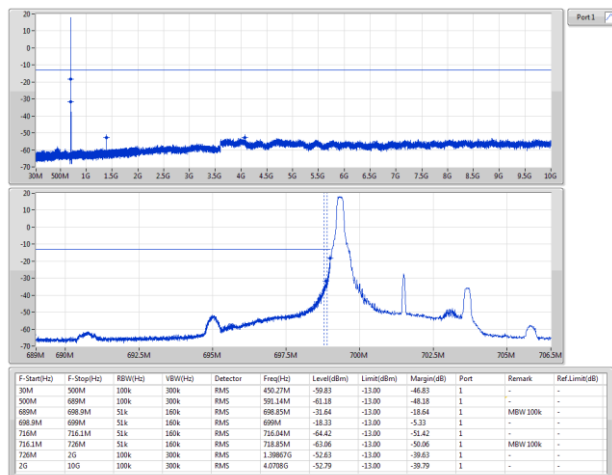
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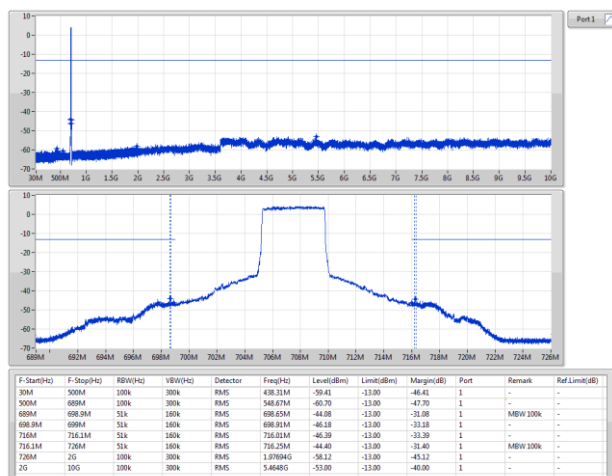
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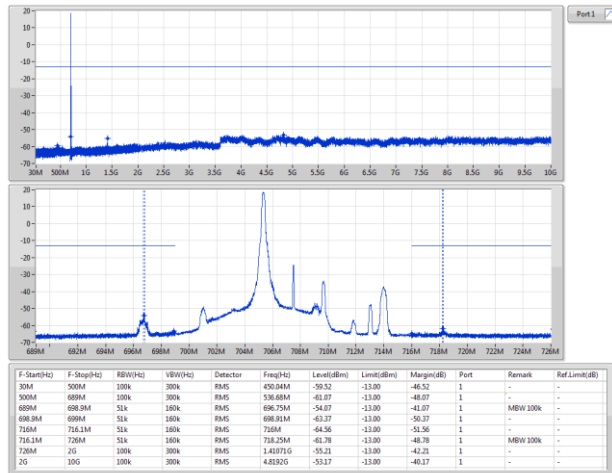
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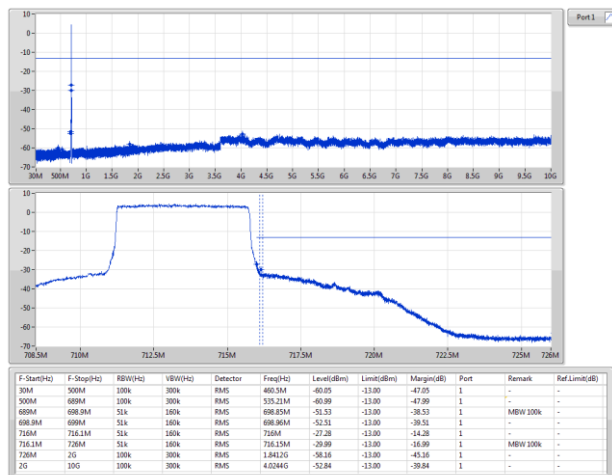
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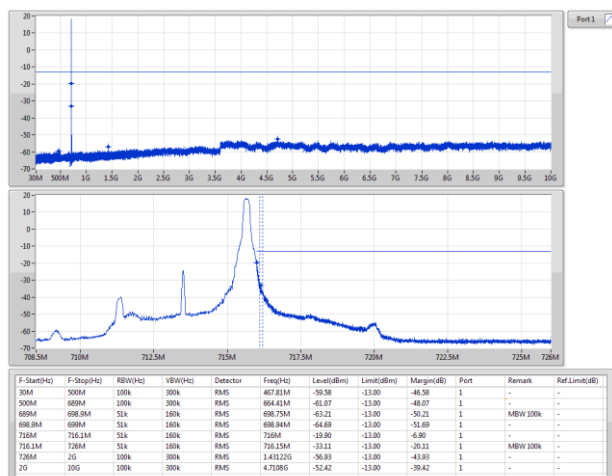
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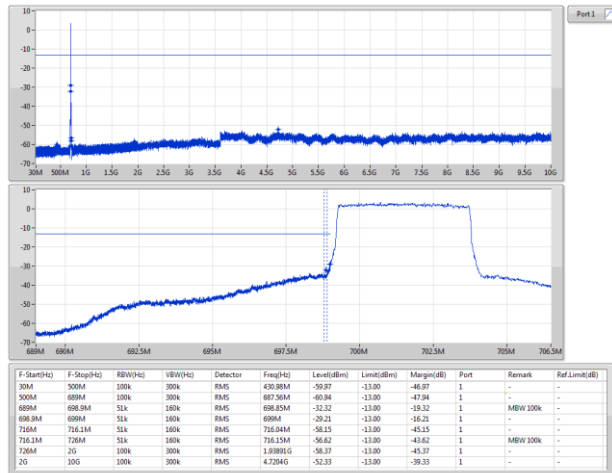
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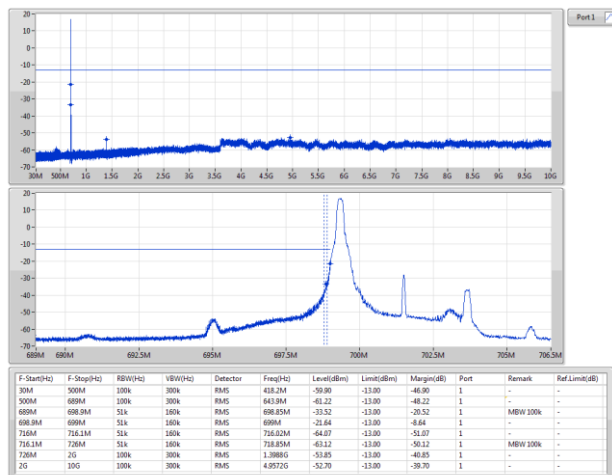
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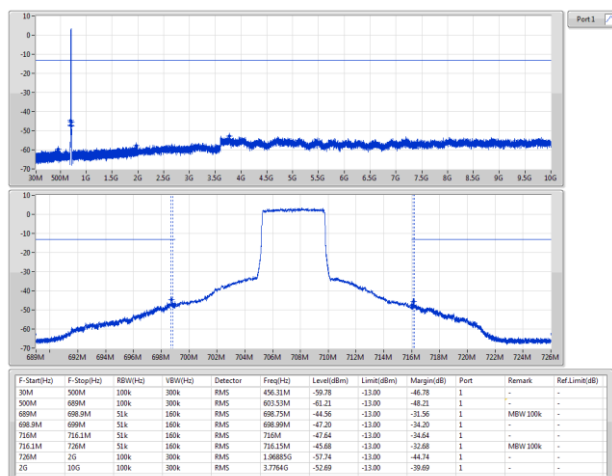
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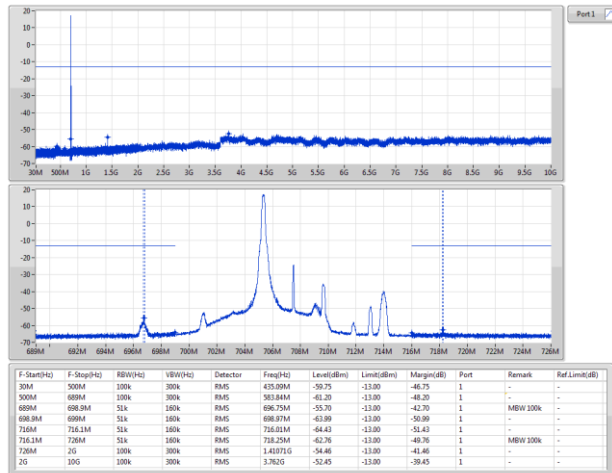
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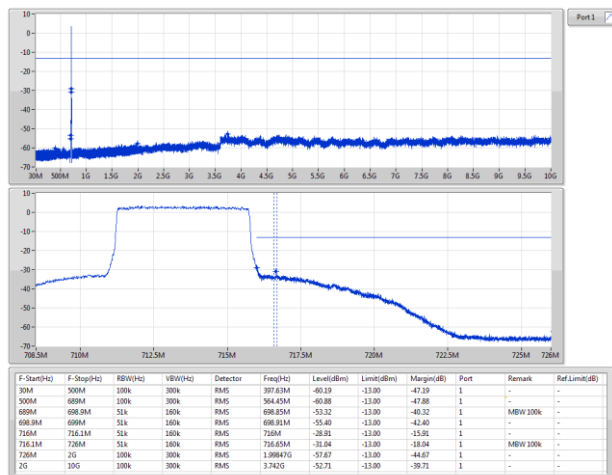
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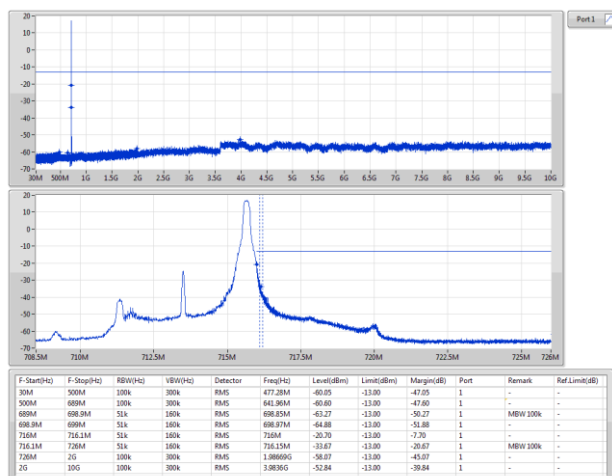
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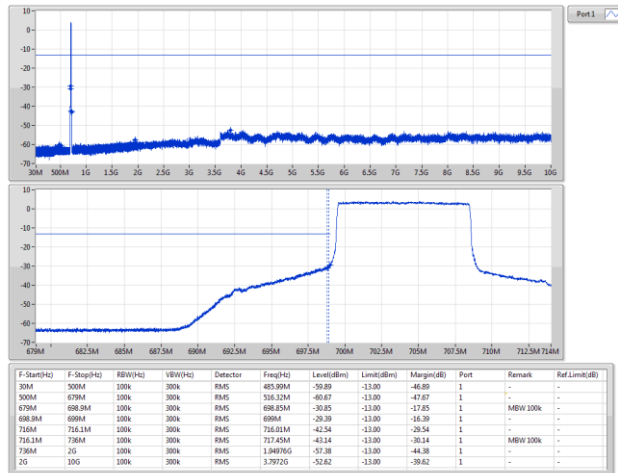
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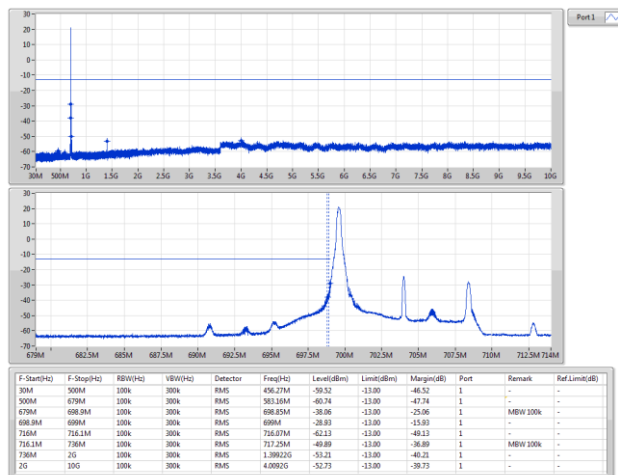
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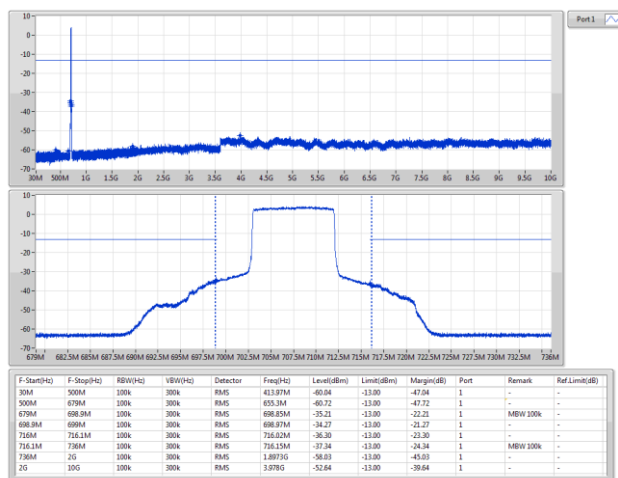
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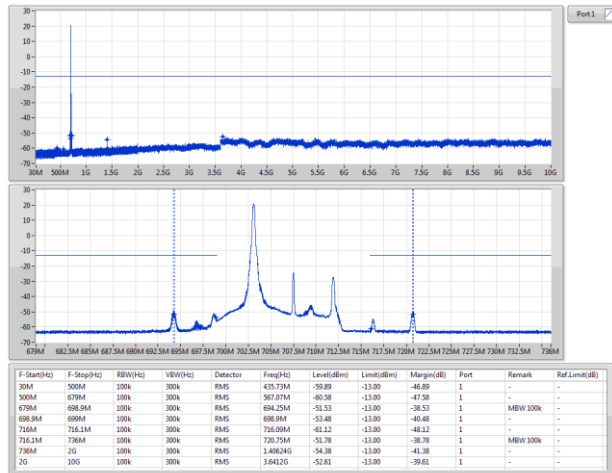
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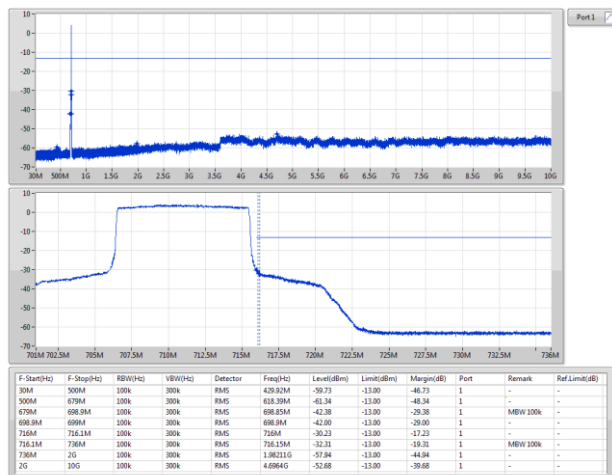
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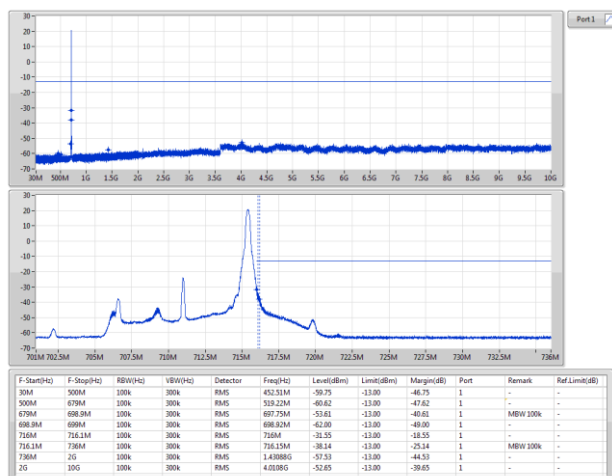
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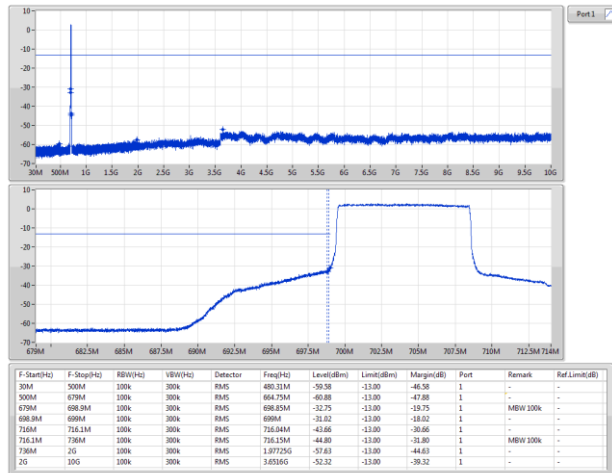
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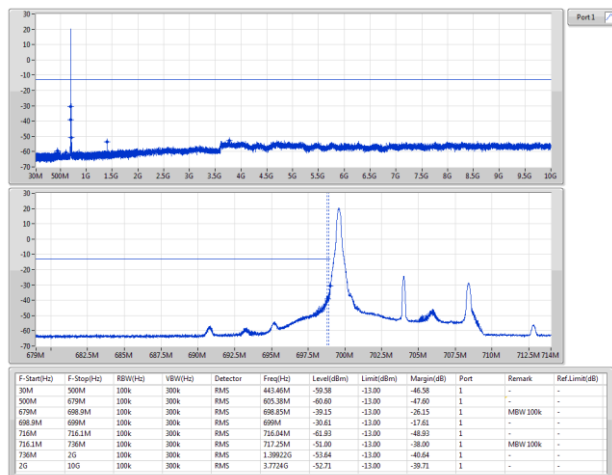
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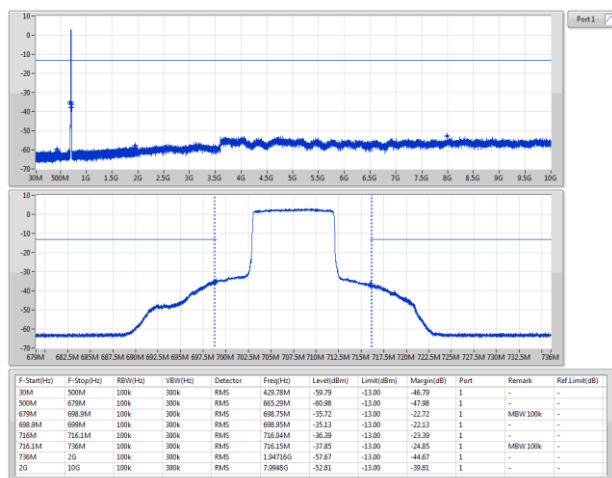
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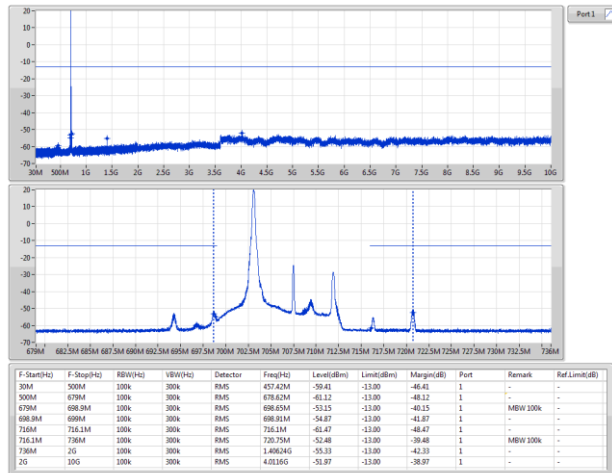
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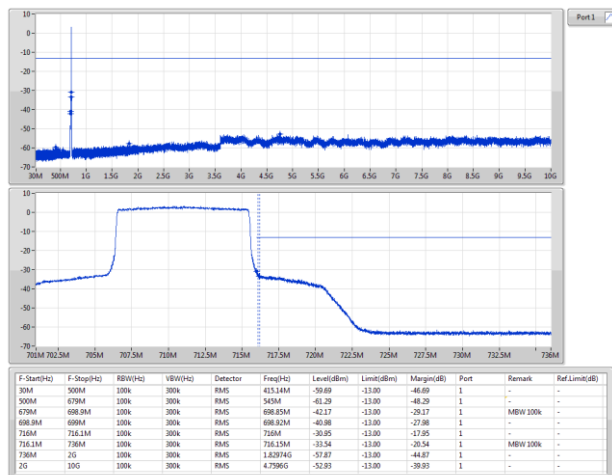
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Band 12_LTE_10MHz_Nss1,16QAM_1TX
707.5MHz_16QAM_RB 1,#RB L



Band 12_LTE_10MHz_Nss1,16QAM_1TX
711MHz_16QAM_RB 50,#RB 0



Band 12_LTE_10MHz_Nss1,16QAM_1TX
711MHz_16QAM_RB 1,#RB H

