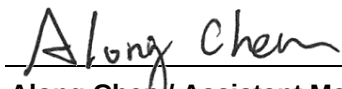


FCC Test Report

FCC ID : 2AIHD1041
Equipment : HW-IG41
Model No. : 010-1041
Brand Name : Samsara
Applicant : Samsara Networks Inc.
Address : 1990 Alameda Street, San Francisco, CA
94103, United States
Standard : 47 CFR FCC Part 27
Received Date : Sep. 01, 2020
Tested Date : Sep. 15 ~ Sep. 30, 2020

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
FG090103P27	Rev. 01	Initial issue	Oct. 20, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 27.50(d)(4)	Equivalent Isotropically Radiated Power	Power[dBm]: 28.95	Pass
2.1053 / 27.53(h)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(h)	Conducted Emissions	Meet the requirement of limit	Pass
27.53(h)	Band Edge Measurement	Meet the requirement of limit	Pass
2.1049 / 27.53(h)	Occupied Bandwidth	Meet the requirement of limit	Pass
27.50(d)(5)	Peak to Average Ratio	Meet the requirement of limit	Pass
2.1055 / 27.54	Frequency Stability	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 of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating Frequency	LTE Band 4: Channel Bandwidth: 1.4MHz: 1710.7~1754.3 MHz Channel Bandwidth: 3MHz: 1711.5~1753.5 MHz Channel Bandwidth: 5MHz: 1712.5~1752.5 MHz Channel Bandwidth: 10MHz: 1715~1750 MHz Channel Bandwidth: 15MHz: 1717.5~1747.5 MHz Channel Bandwidth: 20MHz: 1720~1745 MHz
Modulation	QPSK, 16QAM (Uplink)
UE Category	Cat. 4
Release Version	9

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Ant. gain with cable loss (dBi)	Ant. gain (dBi)	Cable loss (dB)
1	Individual antenna (OA-DB-02-01-04-SE)	Dipole	SMA PLUG	2.5	2.5	-
2	LTE Directional (DA-LTEM-0712-CJ-SA)	Array	N Jack	8.55	10	1.45
3	Array antenna (OS-PENTA-014-01-SA)	PIFA	SMA PLUG	4.02	5.6	1.58

Note: The antenna assembly includes Array antenna, Directional antenna and Individual antenna.

1.1.3 Power Supply Type of Equipment under Test (EUT)

Supply Voltage	24Vdc from DC power		
Operational Voltage	☒ Vnom (24 Vdc)	☒ Vmax (28 Vdc)	☒ Vmin (10 Vdc)
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (70°C)	☒ Tmin (-40°C)

Note: The above power supply is not bundled in market.

1.1.4 Accessories

N/A

1.1.5 Maximum EIRP and Emission Designator

Mode	Modulation	Maximum EIRP (W)	Emission Designator
LTE Band 4, CB: 1.4MHz	QPSK	0.733	1M08G7D
LTE Band 4, CB: 1.4MHz	16QAM	0.587	1M08W7D
LTE Band 4, CB: 3MHz	QPSK	0.752	2M68G7D
LTE Band 4, CB: 3MHz	16QAM	0.607	2M68W7D
LTE Band 4, CB: 5MHz	QPSK	0.785	4M47G7D
LTE Band 4, CB: 5MHz	16QAM	0.565	4M47W7D
LTE Band 4, CB: 10MHz	QPSK	0.773	8M92G7D
LTE Band 4, CB: 10MHz	16QAM	0.586	8M91W7D
LTE Band 4, CB: 15MHz	QPSK	0.774	13M4G7D
LTE Band 4, CB: 15MHz	16QAM	0.562	13M4W7D
LTE Band 4, CB: 20MHz	QPSK	0.757	17M8G7D
LTE Band 4, CB: 20MHz	16QAM	0.553	17M8W7D

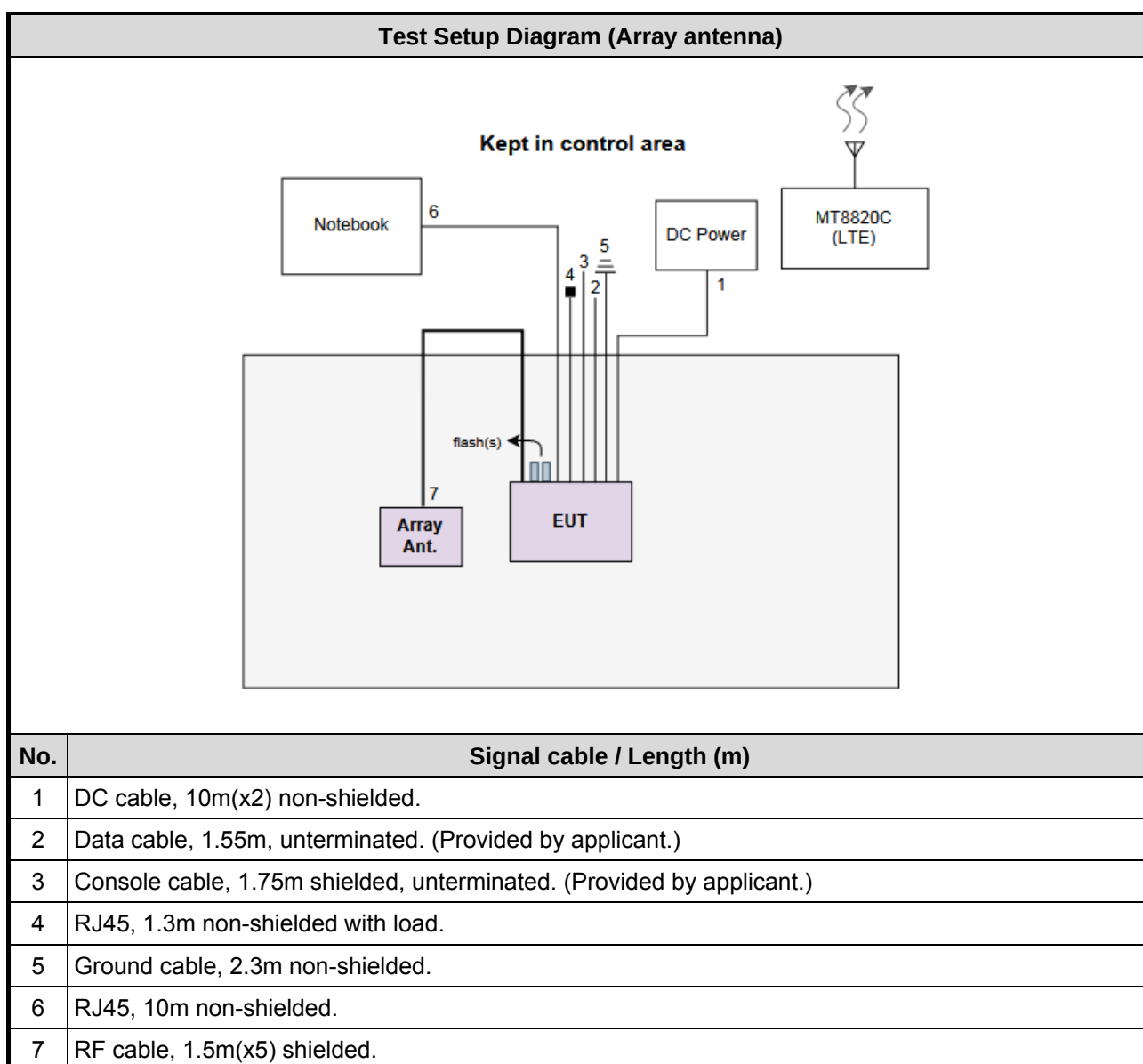
1.1.6 Operating Channel List

LTE Band 4		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
1.4	19957	1710.7
1.4	20175	1732.5
1.4	20393	1754.3
3	19965	1711.5
3	20175	1732.5
3	20385	1753.5
5	19975	1712.5
5	20175	1732.5
5	20375	1752.5
10	20000	1715.0
10	20175	1732.5
10	20350	1750.0
15	20025	1717.5
15	20175	1732.5
15	20325	1747.5
20	20050	1720.0
20	20175	1732.5
20	20300	1745.0

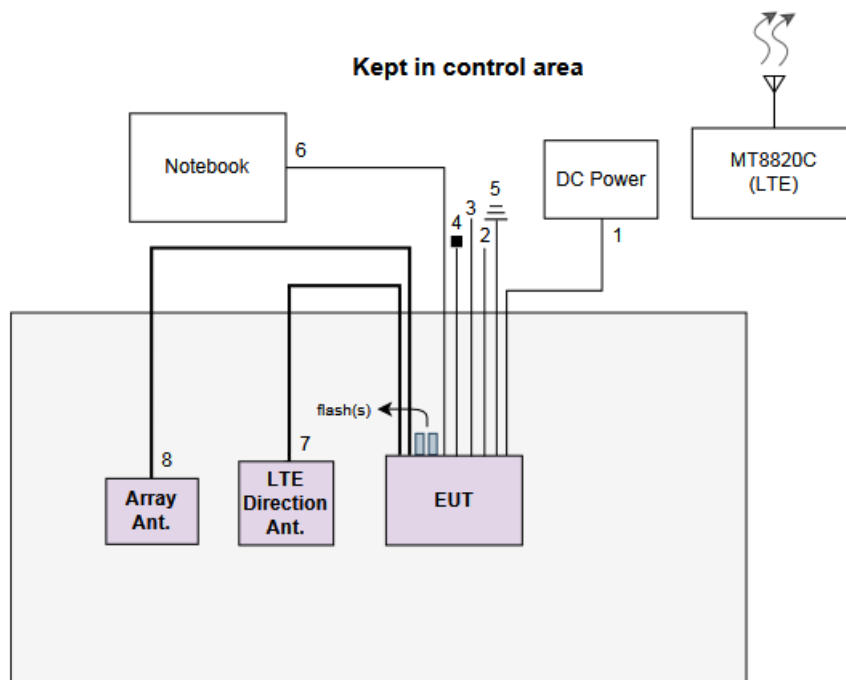
1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5400	DoC	---
2	USB Flash	Kingston	DTSE9	---	---
3	USB Flash	Kingston	DTSE9	---	---
4	RJ45 Load	ICC	---	---	---
5	DC power	MEAN WELL	SDR-75-24	---	Provided by applicant.

1.3 Test Setup Chart

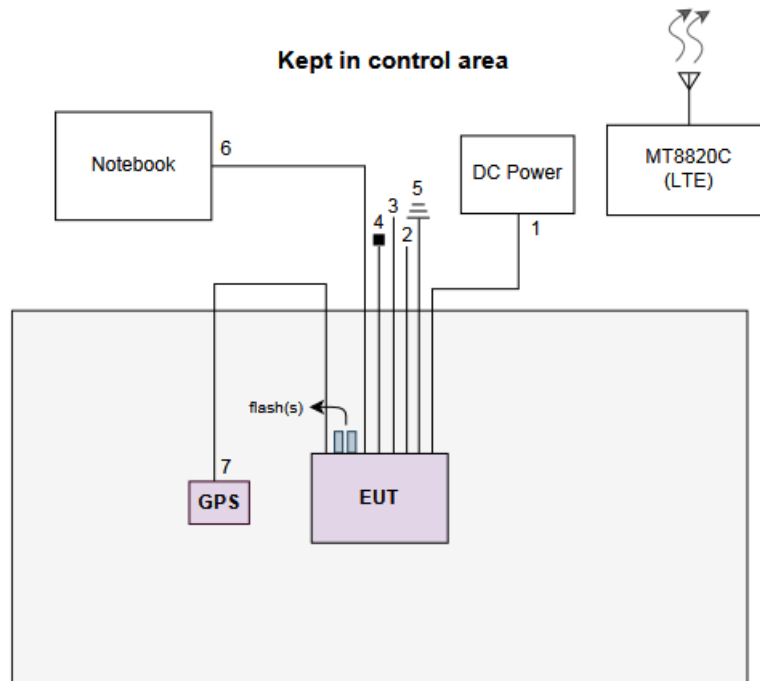


Test Setup Diagram (Directional antenna)



No.	Signal cable / Length (m)
1	DC cable, 10m(x2) non-shielded.
2	Data cable, 1.55m, unterminated. (Provided by applicant.)
3	Console cable, 1.75m shielded, unterminated. (Provided by applicant.)
4	RJ45, 1.3m non-shielded with load.
5	Ground cable, 2.3m non-shielded.
6	RJ45, 10m non-shielded.
7	RF cable, 7.5m(x2) shielded.
8	RF cable, 1.5m(x5) shielded.

Test Setup Diagram (Individual antenna)



No.	Signal cable / Length (m)
1	DC cable, 10m(x2) non-shielded.
2	Data cable, 1.55m, unterminated. (Provided by applicant.)
3	Console cable, 1.75m shielded, unterminated. (Provided by applicant.)
4	RJ45, 1.3m non-shielded with load.
5	Ground cable, 2.3m non-shielded.
6	RJ45, 10m non-shielded.
7	RF cable, 1.5m shielded.

1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Tested Date	Sep. 16 ~ Sep. 26, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	May 06, 2020	May 05, 2021
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 29, 2020	Apr. 28, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980187	Aug. 05, 2020	Aug. 04, 2021
Preamplifier	Agilent	83017A	MY39501309	Sep. 02, 2020	Sep. 01, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 27, 2019	Sep. 26, 2020
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 27, 2019	Sep. 26, 2020
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 27, 2019	Sep. 26, 2020
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 27, 2019	Sep. 26, 2020
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 27, 2019	Sep. 26, 2020
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 27, 2019	Sep. 26, 2020
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)				
Tested Date	Sep. 15 ~ Sep. 30, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Dec. 12, 2019	Dec. 11, 2020
Measurement Software	ICC	SENSE-FCC_2G-4G	V5.10.5	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 27
ANSI C63.26-2015

1.6 Reference Guidance

FCC KDB 412172 D01 Determining ERP and EIRP v01r01
FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
FCC KDB 971168 D02 Misc Rev Approv License Devices v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Frequency error	$\pm 1 \times 10^{-9}$
Conducted emission	± 2.715 dB
Radiated emission ≤ 1 GHz	± 3.96 dB
Radiated emission > 1 GHz	± 4.51 dB
Temperature	± 0.4 °C

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
Radiated Emissions	03CH03-WS	23-25°C / 65-66%	Roger Lu / Brad Wu
RF Conducted	TH01-WS	22-26°C / 62-68%	Aska Huang

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	TH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.
Test Site	03CH03-WS
Address of Test Site	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

2.3 The Worst Test Modes and Channel Details

LTE Band 4				
Test item	Channel Bandwidth	Modulation	Test channel	Configuration
E.I.R.P Conducted Emissions Occupied Bandwidth Peak to Average Ratio	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM	19957 / 20175 / 20393 19965 / 20175 / 20385 19975 / 20175 / 20375 20000 / 20175 / 20350 20025 / 20175 / 20325 20050 / 20175 / 20300	1
Radiated Emission $\leq$ 1GHz	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	QPSK QPSK QPSK QPSK QPSK QPSK	20393 20385 20375 20350 20325 20300	1, 2, 3
Radiated Emission $>$ 1GHz	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	QPSK QPSK QPSK QPSK QPSK QPSK	19957 / 20175 / 20393 19965 / 20175 / 20385 19975 / 20175 / 20375 20000 / 20175 / 20350 20025 / 20175 / 20325 20050 / 20175 / 20300	1, 2, 3
Band Edge	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM QPSK / 16QAM	19957 / 20393 19965 / 20385 19975 / 20375 20000 / 20350 20025 / 20325 20050 / 20300	1
Frequency Stability	1.4 MHz 3 MHz 5 MHz 10 MHz 15 MHz 20 MHz	QPSK QPSK QPSK QPSK QPSK QPSK	19957 / 20393 19965 / 20385 19975 / 20375 20000 / 20350 20025 / 20325 20050 / 20300	1

NOTE:

- The antenna assembly includes Array antenna, Directional antenna and Individual antenna.
 - Individual antenna without antenna cable.
 - Array antenna with antenna cable and need to be assessed 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.
 - Directional antenna with antenna cable.
- Test configurations are listed as below:
 - Configuration 1: Array antenna with antenna cable, Z-plane
 - Configuration 2: Directional antenna with antenna cable
 - Configuration 3: Individual antenna

3 Test Results

3.1 Equivalent Isotropically Radiated Power

3.1.1 Limit of Equivalent Isotropically Radiated Power

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 Watt EIRP.

3.1.2 Test Procedures

Conducted power measurement

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

EIRP measurement

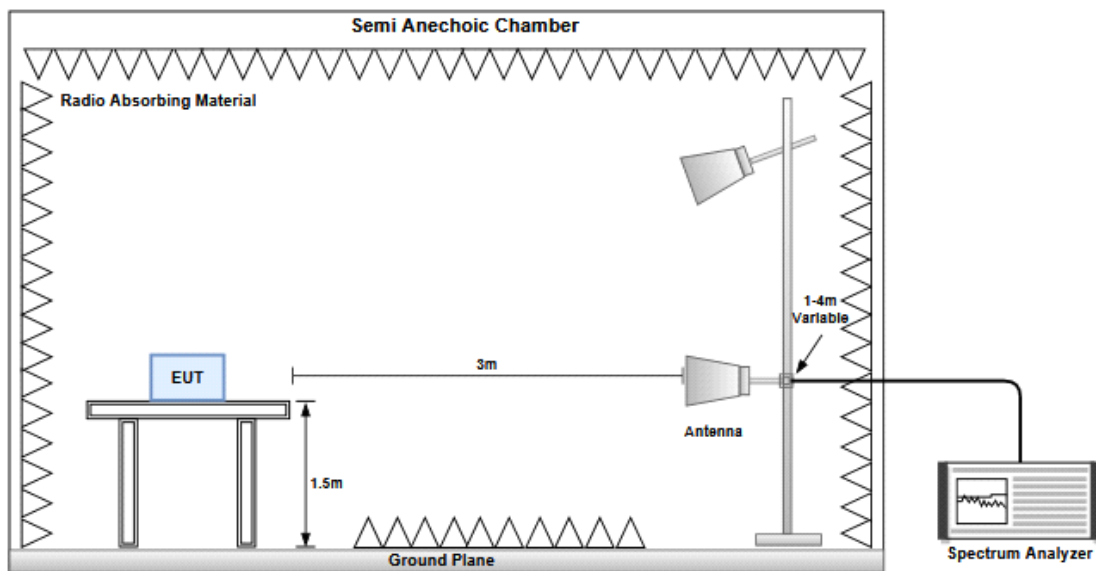
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. 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 = output power of step 4 + gain of substitution antenna – cable loss of RF cable.

3.1.3 Test Setup

Conducted power measurement



EIRP measurement



3.1.4 Test Result of Conducted power (dBm)

Summary

Mode	Power (dBm)	Power (W)
Band 4	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	21.92	0.156
LTE_1.4MHz_Nss1,16QAM_1TX	20.88	0.122
LTE_3MHz_Nss1,QPSK_1TX	22.04	0.160
LTE_3MHz_Nss1,16QAM_1TX	20.81	0.121
LTE_5MHz_Nss1,QPSK_1TX	22.28	0.169
LTE_5MHz_Nss1,16QAM_1TX	20.72	0.118
LTE_10MHz_Nss1,QPSK_1TX	22.17	0.165
LTE_10MHz_Nss1,16QAM_1TX	20.84	0.121
LTE_15MHz_Nss1,QPSK_1TX	22.19	0.166
LTE_15MHz_Nss1,16QAM_1TX	20.56	0.114
LTE_20MHz_Nss1,QPSK_1TX	22.05	0.160
LTE_20MHz_Nss1,16QAM_1TX	20.58	0.114

Result

Mode	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
Band 4_LTE_1.4MHz_Nss1_1TX	-	-	-	-
1710.7MHz_QPSK_RB 1,#RB 0	21.75	0.150	Inf	21.75
1710.7MHz_QPSK_RB 1,#RB 3	21.91	0.155	Inf	21.91
1710.7MHz_QPSK_RB 1,#RB 5	21.82	0.152	Inf	21.82
1710.7MHz_QPSK_RB 3,#RB 0	21.86	0.153	Inf	21.86
1710.7MHz_QPSK_RB 3,#RB 1	21.84	0.153	Inf	21.84
1710.7MHz_QPSK_RB 3,#RB 3	21.80	0.151	Inf	21.8
1710.7MHz_QPSK_RB 6,#RB 0	20.73	0.118	Inf	20.73
1732.5MHz_QPSK_RB 1,#RB 0	21.62	0.145	Inf	21.62
1732.5MHz_QPSK_RB 1,#RB 3	21.85	0.153	Inf	21.85
1732.5MHz_QPSK_RB 1,#RB 5	21.62	0.145	Inf	21.62
1732.5MHz_QPSK_RB 3,#RB 0	21.66	0.147	Inf	21.66
1732.5MHz_QPSK_RB 3,#RB 1	21.62	0.145	Inf	21.62
1732.5MHz_QPSK_RB 3,#RB 3	21.25	0.133	Inf	21.25
1732.5MHz_QPSK_RB 6,#RB 0	20.65	0.116	Inf	20.65
1754.3MHz_QPSK_RB 1,#RB 0	21.76	0.150	Inf	21.76
1754.3MHz_QPSK_RB 1,#RB 3	21.92	0.156	Inf	21.92
1754.3MHz_QPSK_RB 1,#RB 5	21.76	0.150	Inf	21.76
1754.3MHz_QPSK_RB 3,#RB 0	21.75	0.150	Inf	21.75
1754.3MHz_QPSK_RB 3,#RB 1	21.67	0.147	Inf	21.67
1754.3MHz_QPSK_RB 3,#RB 3	21.88	0.154	Inf	21.88
1754.3MHz_QPSK_RB 6,#RB 0	20.73	0.118	Inf	20.73
1710.7MHz_16QAM_RB 1,#RB 0	20.82	0.121	Inf	20.82
1710.7MHz_16QAM_RB 1,#RB 3	20.88	0.122	Inf	20.88
1710.7MHz_16QAM_RB 1,#RB 5	20.61	0.115	Inf	20.61
1710.7MHz_16QAM_RB 3,#RB 0	20.77	0.119	Inf	20.77
1710.7MHz_16QAM_RB 3,#RB 1	20.86	0.122	Inf	20.86
1710.7MHz_16QAM_RB 3,#RB 3	20.68	0.117	Inf	20.68
1710.7MHz_16QAM_RB 6,#RB 0	19.56	0.090	Inf	19.56
1732.5MHz_16QAM_RB 1,#RB 0	20.33	0.108	Inf	20.33
1732.5MHz_16QAM_RB 1,#RB 3	20.52	0.113	Inf	20.52
1732.5MHz_16QAM_RB 1,#RB 5	20.46	0.111	Inf	20.46
1732.5MHz_16QAM_RB 3,#RB 0	20.67	0.117	Inf	20.67
1732.5MHz_16QAM_RB 3,#RB 1	20.66	0.116	Inf	20.66
1732.5MHz_16QAM_RB 3,#RB 3	20.63	0.116	Inf	20.63
1732.5MHz_16QAM_RB 6,#RB 0	19.73	0.094	Inf	19.73
1754.3MHz_16QAM_RB 1,#RB 0	20.42	0.110	Inf	20.42
1754.3MHz_16QAM_RB 1,#RB 3	20.75	0.119	Inf	20.75

Mode	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
1754.3MHz_16QAM_RB 1,#RB 5	20.55	0.114	Inf	20.55
1754.3MHz_16QAM_RB 3,#RB 0	20.66	0.116	Inf	20.66
1754.3MHz_16QAM_RB 3,#RB 1	20.79	0.120	Inf	20.79
1754.3MHz_16QAM_RB 3,#RB 3	20.86	0.122	Inf	20.86
1754.3MHz_16QAM_RB 6,#RB 0	19.88	0.097	Inf	19.88
Band 4_LTE_3MHz_Nss1_1TX	-	-	-	-
1711.5MHz_QPSK_RB 1,#RB 0	21.89	0.155	Inf	21.89
1711.5MHz_QPSK_RB 1,#RB 8	21.87	0.154	Inf	21.87
1711.5MHz_QPSK_RB 1,#RB 14	21.89	0.155	Inf	21.89
1711.5MHz_QPSK_RB 8,#RB 0	20.87	0.122	Inf	20.87
1711.5MHz_QPSK_RB 8,#RB 4	20.83	0.121	Inf	20.83
1711.5MHz_QPSK_RB 8,#RB 7	20.86	0.122	Inf	20.86
1711.5MHz_QPSK_RB 15,#RB 0	20.73	0.118	Inf	20.73
1732.5MHz_QPSK_RB 1,#RB 0	21.76	0.150	Inf	21.76
1732.5MHz_QPSK_RB 1,#RB 8	21.77	0.150	Inf	21.77
1732.5MHz_QPSK_RB 1,#RB 14	21.50	0.141	Inf	21.5
1732.5MHz_QPSK_RB 8,#RB 0	20.70	0.117	Inf	20.7
1732.5MHz_QPSK_RB 8,#RB 4	20.73	0.118	Inf	20.73
1732.5MHz_QPSK_RB 8,#RB 7	20.70	0.117	Inf	20.7
1732.5MHz_QPSK_RB 15,#RB 0	20.72	0.118	Inf	20.72
1753.5MHz_QPSK_RB 1,#RB 0	21.81	0.152	Inf	21.81
1753.5MHz_QPSK_RB 1,#RB 8	22.04	0.160	Inf	22.04
1753.5MHz_QPSK_RB 1,#RB 14	21.79	0.151	Inf	21.79
1753.5MHz_QPSK_RB 8,#RB 0	20.77	0.119	Inf	20.77
1753.5MHz_QPSK_RB 8,#RB 4	20.82	0.121	Inf	20.82
1753.5MHz_QPSK_RB 8,#RB 7	20.73	0.118	Inf	20.73
1753.5MHz_QPSK_RB 15,#RB 0	20.80	0.120	Inf	20.8
1711.5MHz_16QAM_RB 1,#RB 0	20.49	0.112	Inf	20.49
1711.5MHz_16QAM_RB 1,#RB 8	20.51	0.112	Inf	20.51
1711.5MHz_16QAM_RB 1,#RB 14	20.45	0.111	Inf	20.45
1711.5MHz_16QAM_RB 8,#RB 0	19.80	0.095	Inf	19.8
1711.5MHz_16QAM_RB 8,#RB 4	19.99	0.100	Inf	19.99
1711.5MHz_16QAM_RB 8,#RB 7	19.92	0.098	Inf	19.92
1711.5MHz_16QAM_RB 15,#RB 0	19.71	0.094	Inf	19.71
1732.5MHz_16QAM_RB 1,#RB 0	20.65	0.116	Inf	20.65
1732.5MHz_16QAM_RB 1,#RB 8	20.81	0.121	Inf	20.81
1732.5MHz_16QAM_RB 1,#RB 14	20.55	0.114	Inf	20.55
1732.5MHz_16QAM_RB 8,#RB 0	19.83	0.096	Inf	19.83
1732.5MHz_16QAM_RB 8,#RB 4	19.81	0.096	Inf	19.81

Mode	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
1732.5MHz_16QAM_RB 8,#RB 7	19.63	0.092	Inf	19.63
1732.5MHz_16QAM_RB 15,#RB 0	19.60	0.091	Inf	19.6
1753.5MHz_16QAM_RB 1,#RB 0	20.42	0.110	Inf	20.42
1753.5MHz_16QAM_RB 1,#RB 8	20.65	0.116	Inf	20.65
1753.5MHz_16QAM_RB 1,#RB 14	20.52	0.113	Inf	20.52
1753.5MHz_16QAM_RB 8,#RB 0	19.76	0.095	Inf	19.76
1753.5MHz_16QAM_RB 8,#RB 4	19.77	0.095	Inf	19.77
1753.5MHz_16QAM_RB 8,#RB 7	19.81	0.096	Inf	19.81
1753.5MHz_16QAM_RB 15,#RB 0	19.80	0.095	Inf	19.8
Band 4_LTE_5MHz_Nss1_1TX	-	-	-	-
1712.5MHz_QPSK_RB 1,#RB 0	21.88	0.154	Inf	21.88
1712.5MHz_QPSK_RB 1,#RB 12	21.91	0.155	Inf	21.91
1712.5MHz_QPSK_RB 1,#RB 24	21.72	0.149	Inf	21.72
1712.5MHz_QPSK_RB 12,#RB 0	20.89	0.123	Inf	20.89
1712.5MHz_QPSK_RB 12,#RB 7	20.66	0.116	Inf	20.66
1712.5MHz_QPSK_RB 12,#RB 13	20.67	0.117	Inf	20.67
1712.5MHz_QPSK_RB 25,#RB 0	20.66	0.116	Inf	20.66
1732.5MHz_QPSK_RB 1,#RB 0	21.81	0.152	Inf	21.81
1732.5MHz_QPSK_RB 1,#RB 12	22.01	0.159	Inf	22.01
1732.5MHz_QPSK_RB 1,#RB 24	21.72	0.149	Inf	21.72
1732.5MHz_QPSK_RB 12,#RB 0	20.80	0.120	Inf	20.8
1732.5MHz_QPSK_RB 12,#RB 7	20.74	0.119	Inf	20.74
1732.5MHz_QPSK_RB 12,#RB 13	20.60	0.115	Inf	20.6
1732.5MHz_QPSK_RB 25,#RB 0	20.70	0.117	Inf	20.7
1752.5MHz_QPSK_RB 1,#RB 0	21.90	0.155	Inf	21.9
1752.5MHz_QPSK_RB 1,#RB 12	22.28	0.169	Inf	22.28
1752.5MHz_QPSK_RB 1,#RB 24	21.86	0.153	Inf	21.86
1752.5MHz_QPSK_RB 12,#RB 0	20.80	0.120	Inf	20.8
1752.5MHz_QPSK_RB 12,#RB 7	20.82	0.121	Inf	20.82
1752.5MHz_QPSK_RB 12,#RB 13	20.92	0.124	Inf	20.92
1752.5MHz_QPSK_RB 25,#RB 0	20.76	0.119	Inf	20.76
1712.5MHz_16QAM_RB 1,#RB 0	20.58	0.114	Inf	20.58
1712.5MHz_16QAM_RB 1,#RB 12	20.65	0.116	Inf	20.65
1712.5MHz_16QAM_RB 1,#RB 24	20.55	0.114	Inf	20.55
1712.5MHz_16QAM_RB 12,#RB 0	19.62	0.092	Inf	19.62
1712.5MHz_16QAM_RB 12,#RB 7	19.64	0.092	Inf	19.64
1712.5MHz_16QAM_RB 12,#RB 13	19.58	0.091	Inf	19.58
1712.5MHz_16QAM_RB 25,#RB 0	19.65	0.092	Inf	19.65
1732.5MHz_16QAM_RB 1,#RB 0	20.35	0.108	Inf	20.35

Mode	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
1732.5MHz_16QAM_RB 1,#RB 12	20.50	0.112	Inf	20.5
1732.5MHz_16QAM_RB 1,#RB 24	20.48	0.112	Inf	20.48
1732.5MHz_16QAM_RB 12,#RB 0	19.46	0.088	Inf	19.46
1732.5MHz_16QAM_RB 12,#RB 7	19.62	0.092	Inf	19.62
1732.5MHz_16QAM_RB 12,#RB 13	19.70	0.093	Inf	19.7
1732.5MHz_16QAM_RB 25,#RB 0	19.55	0.090	Inf	19.55
1752.5MHz_16QAM_RB 1,#RB 0	20.65	0.116	Inf	20.65
1752.5MHz_16QAM_RB 1,#RB 12	20.72	0.118	Inf	20.72
1752.5MHz_16QAM_RB 1,#RB 24	20.66	0.116	Inf	20.66
1752.5MHz_16QAM_RB 12,#RB 0	19.53	0.090	Inf	19.53
1752.5MHz_16QAM_RB 12,#RB 7	19.54	0.090	Inf	19.54
1752.5MHz_16QAM_RB 12,#RB 13	19.65	0.092	Inf	19.65
1752.5MHz_16QAM_RB 25,#RB 0	19.75	0.094	Inf	19.75
Band 4_LTE_10MHz_Nss1_1TX	-	-	-	-
1715MHz_QPSK_RB 1,#RB 0	21.79	0.151	Inf	21.79
1715MHz_QPSK_RB 1,#RB 25	22.15	0.164	Inf	22.15
1715MHz_QPSK_RB 1,#RB 49	21.76	0.150	Inf	21.76
1715MHz_QPSK_RB 25,#RB 0	20.81	0.121	Inf	20.81
1715MHz_QPSK_RB 25,#RB 12	20.89	0.123	Inf	20.89
1715MHz_QPSK_RB 25,#RB 25	20.87	0.122	Inf	20.87
1715MHz_QPSK_RB 50,#RB 0	20.86	0.122	Inf	20.86
1732.5MHz_QPSK_RB 1,#RB 0	21.62	0.145	Inf	21.62
1732.5MHz_QPSK_RB 1,#RB 25	21.96	0.157	Inf	21.96
1732.5MHz_QPSK_RB 1,#RB 49	21.52	0.142	Inf	21.52
1732.5MHz_QPSK_RB 25,#RB 0	20.73	0.118	Inf	20.73
1732.5MHz_QPSK_RB 25,#RB 12	20.76	0.119	Inf	20.76
1732.5MHz_QPSK_RB 25,#RB 25	20.57	0.114	Inf	20.57
1732.5MHz_QPSK_RB 50,#RB 0	20.67	0.117	Inf	20.67
1750MHz_QPSK_RB 1,#RB 0	21.71	0.148	Inf	21.71
1750MHz_QPSK_RB 1,#RB 25	22.17	0.165	Inf	22.17
1750MHz_QPSK_RB 1,#RB 49	21.86	0.153	Inf	21.86
1750MHz_QPSK_RB 25,#RB 0	20.75	0.119	Inf	20.75
1750MHz_QPSK_RB 25,#RB 12	20.83	0.121	Inf	20.83
1750MHz_QPSK_RB 25,#RB 25	20.71	0.118	Inf	20.71
1750MHz_QPSK_RB 50,#RB 0	20.77	0.119	Inf	20.77
1715MHz_16QAM_RB 1,#RB 0	20.55	0.114	Inf	20.55
1715MHz_16QAM_RB 1,#RB 25	20.84	0.121	Inf	20.84
1715MHz_16QAM_RB 1,#RB 49	20.55	0.114	Inf	20.55
1715MHz_16QAM_RB 25,#RB 0	19.86	0.097	Inf	19.86

Mode	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
1715MHz_16QAM_RB 25,#RB 12	19.78	0.095	Inf	19.78
1715MHz_16QAM_RB 25,#RB 25	19.87	0.097	Inf	19.87
1715MHz_16QAM_RB 50,#RB 0	19.63	0.092	Inf	19.63
1732.5MHz_16QAM_RB 1,#RB 0	20.41	0.110	Inf	20.41
1732.5MHz_16QAM_RB 1,#RB 25	20.65	0.116	Inf	20.65
1732.5MHz_16QAM_RB 1,#RB 49	20.35	0.108	Inf	20.35
1732.5MHz_16QAM_RB 25,#RB 0	19.71	0.094	Inf	19.71
1732.5MHz_16QAM_RB 25,#RB 12	19.72	0.094	Inf	19.72
1732.5MHz_16QAM_RB 25,#RB 25	19.53	0.090	Inf	19.53
1732.5MHz_16QAM_RB 50,#RB 0	19.66	0.092	Inf	19.66
1750MHz_16QAM_RB 1,#RB 0	20.55	0.114	Inf	20.55
1750MHz_16QAM_RB 1,#RB 25	20.76	0.119	Inf	20.76
1750MHz_16QAM_RB 1,#RB 49	20.66	0.116	Inf	20.66
1750MHz_16QAM_RB 25,#RB 0	19.81	0.096	Inf	19.81
1750MHz_16QAM_RB 25,#RB 12	19.82	0.096	Inf	19.82
1750MHz_16QAM_RB 25,#RB 25	19.85	0.097	Inf	19.85
1750MHz_16QAM_RB 50,#RB 0	19.81	0.096	Inf	19.81
Band 4_LTE_15MHz_Nss1_1TX	-	-	-	-
1717.5MHz_QPSK_RB 1,#RB 0	21.85	0.153	Inf	21.85
1717.5MHz_QPSK_RB 1,#RB 37	22.12	0.163	Inf	22.12
1717.5MHz_QPSK_RB 1,#RB 74	21.72	0.149	Inf	21.72
1717.5MHz_QPSK_RB 36,#RB 0	20.82	0.121	Inf	20.82
1717.5MHz_QPSK_RB 36,#RB 20	20.85	0.122	Inf	20.85
1717.5MHz_QPSK_RB 36,#RB 39	20.67	0.117	Inf	20.67
1717.5MHz_QPSK_RB 75,#RB 0	20.72	0.118	Inf	20.72
1732.5MHz_QPSK_RB 1,#RB 0	21.85	0.153	Inf	21.85
1732.5MHz_QPSK_RB 1,#RB 37	22.03	0.160	Inf	22.03
1732.5MHz_QPSK_RB 1,#RB 74	21.69	0.148	Inf	21.69
1732.5MHz_QPSK_RB 36,#RB 0	20.83	0.121	Inf	20.83
1732.5MHz_QPSK_RB 36,#RB 20	20.73	0.118	Inf	20.73
1732.5MHz_QPSK_RB 36,#RB 39	20.55	0.114	Inf	20.55
1732.5MHz_QPSK_RB 75,#RB 0	20.71	0.118	Inf	20.71
1747.5MHz_QPSK_RB 1,#RB 0	21.82	0.152	Inf	21.82
1747.5MHz_QPSK_RB 1,#RB 37	22.19	0.166	Inf	22.19
1747.5MHz_QPSK_RB 1,#RB 74	21.88	0.154	Inf	21.88
1747.5MHz_QPSK_RB 36,#RB 0	20.63	0.116	Inf	20.63
1747.5MHz_QPSK_RB 36,#RB 20	20.88	0.122	Inf	20.88
1747.5MHz_QPSK_RB 36,#RB 39	20.75	0.119	Inf	20.75
1747.5MHz_QPSK_RB 75,#RB 0	20.77	0.119	Inf	20.77

Mode	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
1717.5MHz_16QAM_RB 1,#RB 0	20.12	0.103	Inf	20.12
1717.5MHz_16QAM_RB 1,#RB 37	20.45	0.111	Inf	20.45
1717.5MHz_16QAM_RB 1,#RB 74	20.25	0.106	Inf	20.25
1717.5MHz_16QAM_RB 36,#RB 0	19.64	0.092	Inf	19.64
1717.5MHz_16QAM_RB 36,#RB 20	19.75	0.094	Inf	19.75
1717.5MHz_16QAM_RB 36,#RB 39	19.63	0.092	Inf	19.63
1717.5MHz_16QAM_RB 75,#RB 0	19.69	0.093	Inf	19.69
1732.5MHz_16QAM_RB 1,#RB 0	20.34	0.108	Inf	20.34
1732.5MHz_16QAM_RB 1,#RB 37	20.52	0.113	Inf	20.52
1732.5MHz_16QAM_RB 1,#RB 74	20.46	0.111	Inf	20.46
1732.5MHz_16QAM_RB 36,#RB 0	19.66	0.092	Inf	19.66
1732.5MHz_16QAM_RB 36,#RB 20	19.59	0.091	Inf	19.59
1732.5MHz_16QAM_RB 36,#RB 39	19.52	0.090	Inf	19.52
1732.5MHz_16QAM_RB 75,#RB 0	19.67	0.093	Inf	19.67
1747.5MHz_16QAM_RB 1,#RB 0	20.49	0.112	Inf	20.49
1747.5MHz_16QAM_RB 1,#RB 37	20.56	0.114	Inf	20.56
1747.5MHz_16QAM_RB 1,#RB 74	20.50	0.112	Inf	20.5
1747.5MHz_16QAM_RB 36,#RB 0	19.68	0.093	Inf	19.68
1747.5MHz_16QAM_RB 36,#RB 20	19.71	0.094	Inf	19.71
1747.5MHz_16QAM_RB 36,#RB 39	19.77	0.095	Inf	19.77
1747.5MHz_16QAM_RB 75,#RB 0	19.72	0.094	Inf	19.72
Band 4_LTE_20MHz_Nss1_1TX	-	-	-	-
1720MHz_QPSK_RB 1,#RB 0	21.67	0.147	Inf	21.67
1720MHz_QPSK_RB 1,#RB 49	22.04	0.160	Inf	22.04
1720MHz_QPSK_RB 1,#RB 99	21.64	0.146	Inf	21.64
1720MHz_QPSK_RB 50,#RB 0	20.81	0.121	Inf	20.81
1720MHz_QPSK_RB 50,#RB 24	20.77	0.119	Inf	20.77
1720MHz_QPSK_RB 50,#RB 50	20.51	0.112	Inf	20.51
1720MHz_QPSK_RB 100,#RB 0	20.66	0.116	Inf	20.66
1732.5MHz_QPSK_RB 1,#RB 0	21.62	0.145	Inf	21.62
1732.5MHz_QPSK_RB 1,#RB 49	22.01	0.159	Inf	22.01
1732.5MHz_QPSK_RB 1,#RB 99	21.74	0.149	Inf	21.74
1732.5MHz_QPSK_RB 50,#RB 0	20.77	0.119	Inf	20.77
1732.5MHz_QPSK_RB 50,#RB 24	20.81	0.121	Inf	20.81
1732.5MHz_QPSK_RB 50,#RB 50	20.56	0.114	Inf	20.56
1732.5MHz_QPSK_RB 100,#RB 0	20.63	0.116	Inf	20.63
1745MHz_QPSK_RB 1,#RB 0	21.64	0.146	Inf	21.64
1745MHz_QPSK_RB 1,#RB 49	22.05	0.160	Inf	22.05
1745MHz_QPSK_RB 1,#RB 99	21.97	0.157	Inf	21.97

Mode	Power (dBm)	Power (W)	Power Lim. (W)	Port 1 (dBm)
1745MHz_QPSK_RB 50,#RB 0	20.77	0.119	Inf	20.77
1745MHz_QPSK_RB 50,#RB 24	20.78	0.120	Inf	20.78
1745MHz_QPSK_RB 50,#RB 50	20.72	0.118	Inf	20.72
1745MHz_QPSK_RB 100,#RB 0	20.62	0.115	Inf	20.62
1720MHz_16QAM_RB 1,#RB 0	20.42	0.110	Inf	20.42
1720MHz_16QAM_RB 1,#RB 49	20.58	0.114	Inf	20.58
1720MHz_16QAM_RB 1,#RB 99	20.36	0.109	Inf	20.36
1720MHz_16QAM_RB 50,#RB 0	19.71	0.094	Inf	19.71
1720MHz_16QAM_RB 50,#RB 24	19.81	0.096	Inf	19.81
1720MHz_16QAM_RB 50,#RB 50	19.56	0.090	Inf	19.56
1720MHz_16QAM_RB 100,#RB 0	19.62	0.092	Inf	19.62
1732.5MHz_16QAM_RB 1,#RB 0	20.32	0.108	Inf	20.32
1732.5MHz_16QAM_RB 1,#RB 49	20.52	0.113	Inf	20.52
1732.5MHz_16QAM_RB 1,#RB 99	20.32	0.108	Inf	20.32
1732.5MHz_16QAM_RB 50,#RB 0	19.71	0.094	Inf	19.71
1732.5MHz_16QAM_RB 50,#RB 24	19.61	0.091	Inf	19.61
1732.5MHz_16QAM_RB 50,#RB 50	19.64	0.092	Inf	19.64
1732.5MHz_16QAM_RB 100,#RB 0	19.65	0.092	Inf	19.65
1745MHz_16QAM_RB 1,#RB 0	20.41	0.110	Inf	20.41
1745MHz_16QAM_RB 1,#RB 49	20.55	0.114	Inf	20.55
1745MHz_16QAM_RB 1,#RB 99	20.34	0.108	Inf	20.34
1745MHz_16QAM_RB 50,#RB 0	19.75	0.094	Inf	19.75
1745MHz_16QAM_RB 50,#RB 24	19.74	0.094	Inf	19.74
1745MHz_16QAM_RB 50,#RB 50	19.77	0.095	Inf	19.77
1745MHz_16QAM_RB 100,#RB 0	19.64	0.092	Inf	19.64

DG = Directional Gain; **Port n** = Port n output power

3.1.5 Test Result of Equivalent Isotropically Radiated Power (dBm)

Configuration 1: Array antenna with antenna cable, Z-plane

Mode	LTE Band 4, QPSK, CB:1.4 MHz, 1 RB Offset 3					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1710.7	24.01	30	-5.99	-17.37	17.93	6.08
1732.5	23.93	30	-6.07	-17.69	17.76	6.17
1754.3	24.03	30	-5.97	-17.51	17.77	6.26

Mode	LTE Band 4, 16QAM, CB:1.4 MHz, 1 RB Offset 3					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1710.7	23.07	30	-6.93	-18.37	16.99	6.08
1732.5	22.58	30	-7.42	-18.91	16.41	6.17
1754.3	22.97	30	-7.03	-18.58	16.71	6.26

Mode	LTE Band 4, QPSK, CB:3 MHz, 1 RB Offset 8					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1711.5	23.92	30	-6.08	-17.47	17.84	6.08
1732.5	23.88	30	-6.12	-17.58	17.71	6.17
1753.5	24.11	30	-5.89	-17.43	17.85	6.26

Mode	LTE Band 4, 16QAM, CB:3 MHz, 1 RB Offset 8					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1711.5	22.75	30	-7.25	-18.69	16.67	6.08
1732.5	23.04	30	-6.96	-18.45	16.87	6.17
1753.5	22.81	30	-7.19	-18.74	16.55	6.26

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, QPSK, CB:5 MHz, 1 RB Offset 12					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1712.5	24.02	30	-5.98	-17.37	17.93	6.09
1732.5	24.08	30	-5.92	-17.38	17.91	6.17
1752.5	24.35	30	-5.65	-17.19	18.1	6.25

Mode	LTE Band 4, 16QAM, CB:5 MHz, 1 RB Offset 12					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1712.5	22.71	30	-7.29	-18.73	16.62	6.09
1732.5	22.83	30	-7.17	-18.66	16.66	6.17
1752.5	22.86	30	-7.14	-18.69	16.61	6.25

Mode	LTE Band 4, QPSK, CB:10 MHz, 1 RB Offset 25					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1715.0	24.25	30	-5.75	-17.15	18.15	6.1
1732.5	24.02	30	-5.98	-17.44	17.85	6.17
1750.0	24.23	30	-5.77	-17.3	17.99	6.24

Mode	LTE Band 4, 16QAM, CB:10 MHz, 1 RB Offset 25					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1715.0	22.94	30	-7.06	-18.51	16.84	6.1
1732.5	22.94	30	-7.06	-18.55	16.77	6.17
1750.0	23.02	30	-6.98	-18.52	16.78	6.24

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, QPSK, CB:15 MHz, 1 RB Offset 37					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1717.5	24.21	30	-5.79	-17.2	18.1	6.11
1732.5	24.11	30	-5.89	-17.35	17.94	6.17
1747.5	24.31	30	-5.69	-17.21	18.08	6.23

Mode	LTE Band 4, 16QAM, CB:15 MHz, 1 RB Offset 37					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1717.5	22.81	30	-7.19	-18.65	16.7	6.11
1732.5	22.66	30	-7.34	-18.83	16.49	6.17
1747.5	22.84	30	-7.16	-18.69	16.61	6.23

Mode	LTE Band 4, QPSK, CB:20 MHz, 1 RB Offset 49					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1720.0	24.15	30	-5.85	-17.27	18.03	6.12
1732.5	24.09	30	-5.91	-17.37	17.92	6.17
1745.0	24.16	30	-5.84	-17.35	17.94	6.22

Mode	LTE Band 4, 16QAM, CB:20 MHz, 1 RB Offset 49					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1720.0	22.86	30	-7.14	-18.6	16.74	6.12
1732.5	22.64	30	-7.36	-18.85	16.47	6.17
1745.0	22.62	30	-7.38	-18.91	16.4	6.22

Note: EIRP = S.G Power value + Correction factor

Configuration 2: Directional antenna with antenna cable

Mode	LTE Band 4, QPSK, CB:1.4 MHz, 1 RB Offset 3					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1710.7	28.65	30	-1.35	-12.79	22.57	6.08
1732.5	28.60	30	-1.4	-12.89	22.43	6.17
1754.3	28.64	30	-1.36	-12.91	22.38	6.26

Mode	LTE Band 4, 16QAM, CB:1.4 MHz, 1 RB Offset 3					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1710.7	27.69	30	-2.31	-13.75	21.61	6.08
1732.5	27.41	30	-2.59	-14.08	21.24	6.17
1754.3	27.48	30	-2.52	-14.07	21.22	6.26

Mode	LTE Band 4, QPSK, CB:3 MHz, 1 RB Offset 8					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1711.5	28.55	30	-1.45	-12.89	22.47	6.08
1732.5	28.50	30	-1.5	-12.99	22.33	6.17
1753.5	28.76	30	-1.24	-12.79	22.5	6.26

Mode	LTE Band 4, 16QAM, CB:3 MHz, 1 RB Offset 8					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1711.5	27.30	30	-2.7	-14.14	21.22	6.08
1732.5	27.83	30	-2.17	-13.66	21.66	6.17
1753.5	27.29	30	-2.71	-14.26	21.03	6.26

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, QPSK, CB:5 MHz, 1 RB Offset 12					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1712.5	28.60	30	-1.4	-12.84	22.51	6.09
1732.5	28.72	30	-1.28	-12.77	22.55	6.17
1752.5	28.95	30	-1.05	-12.6	22.7	6.25

Mode	LTE Band 4, 16QAM, CB:5 MHz, 1 RB Offset 12					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1712.5	27.52	30	-2.48	-13.92	21.43	6.09
1732.5	27.24	30	-2.76	-14.25	21.07	6.17
1752.5	27.46	30	-2.54	-14.09	21.21	6.25

Mode	LTE Band 4, QPSK, CB:10 MHz, 1 RB Offset 25					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1715.0	28.85	30	-1.15	-12.6	22.75	6.1
1732.5	28.67	30	-1.33	-12.82	22.5	6.17
1750.0	28.88	30	-1.12	-12.66	22.64	6.24

Mode	LTE Band 4, 16QAM, CB:10 MHz, 1 RB Offset 25					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1715.0	27.49	30	-2.51	-13.96	21.39	6.1
1732.5	27.42	30	-2.58	-14.07	21.25	6.17
1750.0	27.68	30	-2.32	-13.86	21.44	6.24

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, QPSK, CB:15 MHz, 1 RB Offset 37					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1717.5	28.84	30	-1.16	-12.62	22.73	6.11
1732.5	28.71	30	-1.29	-12.78	22.54	6.17
1747.5	28.89	30	-1.11	-12.64	22.66	6.23

Mode	LTE Band 4, 16QAM, CB:15 MHz, 1 RB Offset 37					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1717.5	27.32	30	-2.68	-14.14	21.21	6.11
1732.5	27.31	30	-2.69	-14.18	21.14	6.17
1747.5	27.50	30	-2.5	-14.03	21.27	6.23

Mode	LTE Band 4, QPSK, CB:20 MHz, 1 RB Offset 49					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1720.0	28.79	30	-1.21	-12.67	22.67	6.12
1732.5	28.74	30	-1.26	-12.75	22.57	6.17
1745.0	28.75	30	-1.25	-12.78	22.53	6.22

Mode	LTE Band 4, 16QAM, CB:20 MHz, 1 RB Offset 49					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1720.0	27.43	30	-2.57	-14.03	21.31	6.12
1732.5	27.28	30	-2.72	-14.21	21.11	6.17
1745.0	27.29	30	-2.71	-14.24	21.07	6.22

Note: EIRP = S.G Power value + Correction factor

Configuration 3: Individual antenna

Mode	LTE Band 4, QPSK, CB:1.4 MHz, 1 RB Offset 3					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1710.7	25.04	30	-4.96	-16.4	18.96	6.08
1732.5	25.42	30	-4.58	-16.07	19.25	6.17
1754.3	25.02	30	-4.98	-16.53	18.76	6.26

Mode	LTE Band 4, 16QAM, CB:1.4 MHz, 1 RB Offset 3					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1710.7	24.02	30	-5.98	-17.42	17.94	6.08
1732.5	24.21	30	-5.79	-17.28	18.04	6.17
1754.3	24.06	30	-5.94	-17.49	17.8	6.26

Mode	LTE Band 4, QPSK, CB:3 MHz, 1 RB Offset 8					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1711.5	25.15	30	-4.85	-16.29	19.07	6.08
1732.5	25.50	30	-4.5	-15.99	19.33	6.17
1753.5	25.26	30	-4.74	-16.29	19	6.26

Mode	LTE Band 4, 16QAM, CB:3 MHz, 1 RB Offset 8					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1711.5	24.06	30	-5.94	-17.38	17.98	6.08
1732.5	24.45	30	-5.55	-17.04	18.28	6.17
1753.5	24.03	30	-5.97	-17.52	17.77	6.26

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, QPSK, CB:5 MHz, 1 RB Offset 12					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1712.5	25.09	30	-4.91	-16.35	19	6.09
1732.5	25.37	30	-4.63	-16.12	19.2	6.17
1752.5	25.03	30	-4.97	-16.52	18.78	6.25

Mode	LTE Band 4, 16QAM, CB:5 MHz, 1 RB Offset 12					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1712.5	24.05	30	-5.95	-17.39	17.96	6.09
1732.5	24.10	30	-5.9	-17.39	17.93	6.17
1752.5	23.86	30	-6.14	-17.69	17.61	6.25

Mode	LTE Band 4, QPSK, CB:10 MHz, 1 RB Offset 25					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1715.0	25.27	30	-4.73	-16.18	19.17	6.1
1732.5	25.46	30	-4.54	-16.03	19.29	6.17
1750.0	25.38	30	-4.62	-16.16	19.14	6.24

Mode	LTE Band 4, 16QAM, CB:10 MHz, 1 RB Offset 25					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1715.0	24.12	30	-5.88	-17.33	18.02	6.1
1732.5	24.26	30	-5.74	-17.23	18.09	6.17
1750.0	24.33	30	-5.67	-17.21	18.09	6.24

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, QPSK, CB:15 MHz, 1 RB Offset 37					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1717.5	25.15	30	-4.85	-16.31	19.04	6.11
1732.5	25.26	30	-4.74	-16.23	19.09	6.17
1747.5	25.14	30	-4.86	-16.39	18.91	6.23

Mode	LTE Band 4, 16QAM, CB:15 MHz, 1 RB Offset 37					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1717.5	23.87	30	-6.13	-17.59	17.76	6.11
1732.5	24.14	30	-5.86	-17.35	17.97	6.17
1747.5	23.75	30	-6.25	-17.78	17.52	6.23

Mode	LTE Band 4, QPSK, CB:20 MHz, 1 RB Offset 49					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1720.0	25.06	30	-4.94	-16.4	18.94	6.12
1732.5	25.22	30	-4.78	-16.27	19.05	6.17
1745.0	25.37	30	-4.63	-16.16	19.15	6.22

Mode	LTE Band 4, 16QAM, CB:20 MHz, 1 RB Offset 49					
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
1720.0	23.95	30	-6.05	-17.51	17.83	6.12
1732.5	24.06	30	-5.94	-17.43	17.89	6.17
1745.0	24.18	30	-5.82	-17.35	17.96	6.22

Note: EIRP = S.G Power value + Correction factor

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

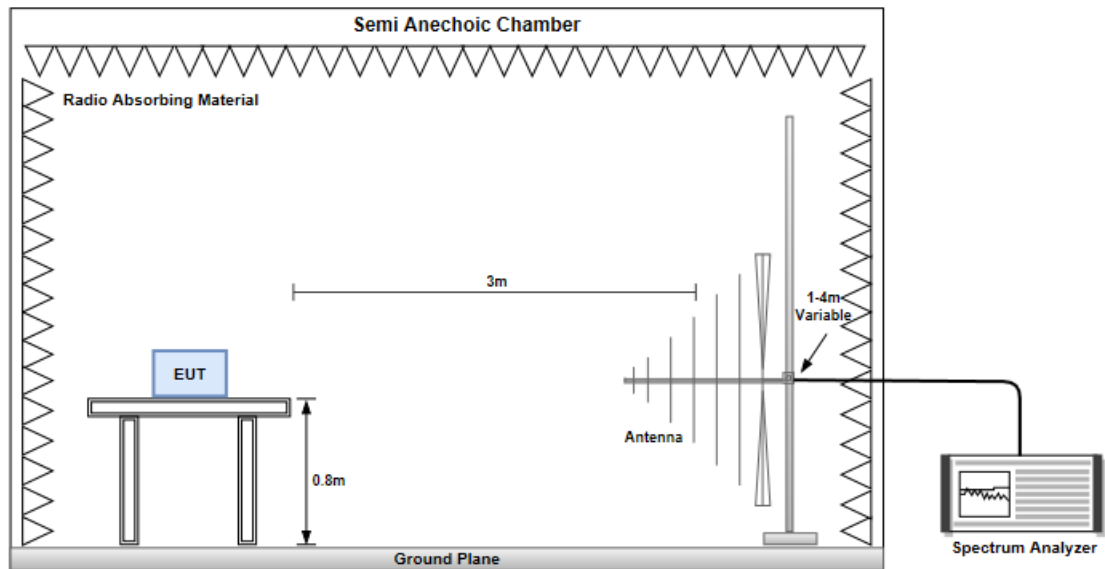
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13 dBm.

3.2.2 Test Procedures

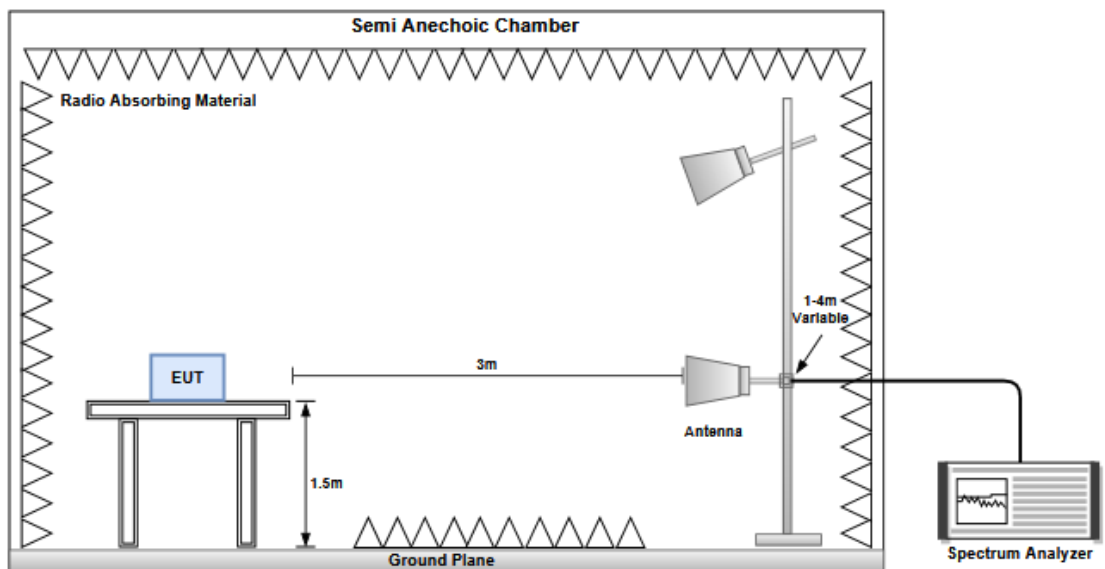
6. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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.
7. 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.
8. 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.
9. 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.
10. E.I.R.P = output power of step 4 + gain of substitution antenna – cable loss of RF cable.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



Configuration 1: Array antenna with antenna cable, Z-plane

3.2.4 Test Result of Radiated Emissions below 1GHz

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20393						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.75	H	-62.01	-13.00	-49.01	-56.64	-59.51	-2.50
224.00	H	-57.34	-13.00	-44.34	-53.10	-55.34	-2.00
249.22	H	-60.84	-13.00	-47.84	-57.82	-59.34	-1.50
299.66	H	-56.35	-13.00	-43.35	-55.12	-54.89	-1.46
324.88	H	-60.64	-13.00	-47.64	-60.79	-59.24	-1.40
349.13	H	-55.36	-13.00	-42.36	-56.85	-54.03	-1.33
199.75	V	-59.66	-13.00	-46.66	-59.64	-57.16	-2.50
224.00	V	-54.15	-13.00	-41.15	-55.22	-52.15	-2.00
249.22	V	-55.28	-13.00	-42.28	-57.51	-53.78	-1.50
299.66	V	-58.48	-13.00	-45.48	-60.46	-57.02	-1.46
349.13	V	-58.12	-13.00	-45.12	-60.13	-56.79	-1.33
600.36	V	-54.54	-13.00	-41.54	-62.90	-52.66	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20385						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.65	H	-61.58	-13.00	-48.58	-56.22	-59.07	-2.51
224.32	H	-57.41	-13.00	-44.41	-53.18	-55.42	-1.99
249.35	H	-60.44	-13.00	-47.44	-57.43	-58.95	-1.49
299.58	H	-56.29	-13.00	-43.29	-55.06	-54.83	-1.46
324.75	H	-59.45	-13.00	-46.45	-59.60	-58.05	-1.40
349.28	H	-55.98	-13.00	-42.98	-57.48	-54.65	-1.33
199.96	V	-59.14	-13.00	-46.14	-59.11	-56.66	-2.48
244.36	V	-54.98	-13.00	-41.98	-56.07	-52.99	-1.99
249.31	V	-55.62	-13.00	-42.62	-57.86	-54.13	-1.49
299.34	V	-57.69	-13.00	-44.69	-59.67	-56.23	-1.46
349.28	V	-57.44	-13.00	-44.44	-59.45	-56.11	-1.33
600.27	V	-54.03	-13.00	-41.03	-62.53	-52.15	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20375						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
200.28	H	-61.45	-13.00	-48.45	-56.05	-58.98	-2.47
225.52	H	-56.98	-13.00	-43.98	-52.81	-55.01	-1.97
250.31	H	-60.15	-13.00	-47.15	-57.19	-58.67	-1.48
299.15	H	-56.87	-13.00	-43.87	-55.62	-55.41	-1.46
324.96	H	-59.75	-13.00	-46.75	-59.91	-58.35	-1.40
349.77	H	-54.82	-13.00	-41.82	-56.35	-53.49	-1.33
199.25	V	-58.74	-13.00	-45.74	-58.75	-56.19	-2.55
225.56	V	-53.85	-13.00	-40.85	-55.00	-51.88	-1.97
249.33	V	-55.79	-13.00	-42.79	-58.03	-54.30	-1.49
299.43	V	-58.26	-13.00	-45.26	-60.24	-56.80	-1.46
349.47	V	-58.39	-13.00	-45.39	-60.40	-57.06	-1.33
600.88	V	-54.05	-13.00	-41.05	-62.56	-52.17	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20350						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
200.61	H	-62.59	-13.00	-49.59	-57.21	-60.12	-2.47
224.36	H	-57.84	-13.00	-44.84	-53.61	-54.85	-2.99
249.55	H	-61.42	-13.00	-48.42	-58.42	-59.93	-1.49
299.53	H	-56.57	-13.00	-43.57	-55.33	-55.11	-1.46
324.74	H	-60.91	-13.00	-47.91	-61.06	-59.51	-1.40
349.33	H	-55.49	-13.00	-42.49	-56.99	-54.16	-1.33
199.43	V	-59.55	-13.00	-46.55	-59.55	-57.01	-2.54
224.87	V	-54.62	-13.00	-41.62	-55.73	-52.64	-1.98
249.53	V	-55.47	-13.00	-42.47	-57.72	-53.98	-1.49
299.92	V	-58.34	-13.00	-45.34	-60.32	-56.88	-1.46
349.57	V	-58.36	-13.00	-45.36	-60.37	-57.03	-1.33
600.27	V	-54.31	-13.00	-41.31	-62.81	-52.43	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20325						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
200.13	H	-61.35	-13.00	-48.35	-55.95	-58.87	-2.48
225.75	H	-56.26	-13.00	-43.26	-52.10	-54.29	-1.97
250.38	H	-59.45	-13.00	-46.45	-56.49	-57.97	-1.48
300.45	H	-55.72	-13.00	-42.72	-54.52	-54.26	-1.46
324.66	H	-59.43	-13.00	-46.43	-59.57	-58.03	-1.40
350.25	H	-55.17	-13.00	-42.17	-56.72	-53.84	-1.33
199.22	V	-59.34	-13.00	-46.34	-59.35	-56.78	-2.56
224.66	V	-54.87	-13.00	-41.87	-55.97	-52.88	-1.99
249.65	V	-55.39	-13.00	-42.39	-57.64	-53.90	-1.49
299.41	V	-58.27	-13.00	-45.27	-60.25	-56.81	-1.46
350.76	V	-57.47	-13.00	-44.47	-59.50	-56.14	-1.33
599.98	V	-57.22	-13.00	-44.22	-62.72	-55.34	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
200.53	H	-62.48	-13.00	-49.48	-57.10	-60.01	-2.47
224.52	H	-57.54	-13.00	-44.54	-53.32	-55.55	-1.99
249.36	H	-60.79	-13.00	-47.79	-57.78	-59.30	-1.49
299.27	H	-56.48	-13.00	-43.48	-55.23	-55.02	-1.46
324.93	H	-60.59	-13.00	-47.59	-60.75	-59.19	-1.40
349.77	H	-54.28	-13.00	-41.28	-55.81	-52.95	-1.33
199.84	V	-58.87	-13.00	-45.87	-58.85	-56.37	-2.50
224.55	V	-54.89	-13.00	-41.89	-55.99	-52.90	-1.99
249.78	V	-54.91	-13.00	-41.91	-57.17	-53.43	-1.48
299.86	V	-57.64	-13.00	-44.64	-59.62	-56.18	-1.46
349.06	V	-57.88	-13.00	-44.88	-59.89	-59.21	1.33
600.11	V	-54.76	-13.00	-41.76	-63.26	-52.88	-1.88

Note: EIRP = S.G Power value + Correction factor

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 19957						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3421.40	H	-35.42	-13.00	-22.42	-47.66	-42.85	7.43
5132.10	H	-31.98	-13.00	-18.98	-49.54	-38.63	6.65
8553.50	H	-36.34	-13.00	-23.34	-56.35	-39.33	2.99
3421.40	V	-44.33	-13.00	-31.33	-56.60	-51.76	7.43
5132.10	V	-42.24	-13.00	-29.24	-59.56	-48.89	6.65
8553.50	V	-44.24	-13.00	-31.24	-65.03	-47.23	2.99

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-31.15	-13.00	-18.15	-43.59	-38.47	7.32
5197.50	H	-30.77	-13.00	-17.77	-48.71	-37.48	6.71
8662.50	H	-32.82	-13.00	-19.82	-52.87	-35.53	2.71
3465.00	V	-41.40	-13.00	-28.40	-53.81	-48.72	7.32
5197.50	V	-41.75	-13.00	-28.75	-59.39	-48.46	6.71
8662.50	V	-42.13	-13.00	-29.13	-63.05	-44.84	2.71

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20393						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3508.60	H	-34.72	-13.00	-21.72	-47.36	-41.93	7.21
5262.90	H	-33.26	-13.00	-20.26	-50.84	-40.00	6.74
8771.50	H	-35.39	-13.00	-22.39	-55.76	-37.81	2.42
3508.60	V	-44.21	-13.00	-31.21	-56.76	-51.42	7.21
5262.90	V	-42.23	-13.00	-29.23	-59.61	-48.97	6.74
8771.50	V	-47.49	-13.00	-34.49	-68.42	-49.91	2.42

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 19965						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3423.00	H	-35.30	-13.00	-22.30	-47.54	-42.72	7.42
5134.50	H	-31.75	-13.00	-18.75	-49.32	-38.40	6.65
8557.50	H	-36.13	-13.00	-23.13	-56.12	-39.11	2.98
3423.00	V	-43.98	-13.00	-30.98	-56.25	-51.40	7.42
5134.50	V	-42.09	-13.00	-29.09	-59.42	-48.74	6.65
8557.50	V	-44.45	-13.00	-31.45	-65.25	-47.43	2.98

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-31.18	-13.00	-18.18	-43.62	-38.50	7.32
5197.50	H	-30.62	-13.00	-17.62	-48.56	-37.33	6.71
8662.50	H	-32.56	-13.00	-19.56	-52.61	-35.27	2.71
3465.00	V	-41.21	-13.00	-28.21	-53.62	-48.53	7.32
5197.50	V	-41.51	-13.00	-28.51	-59.15	-48.22	6.71
8662.50	V	-42.36	-13.00	-29.36	-63.28	-45.07	2.71

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20385						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3507.00	H	-34.49	-13.00	-21.49	-47.12	-41.71	7.22
5260.50	H	-33.07	-13.00	-20.07	-50.67	-39.81	6.74
8767.50	H	-35.01	-13.00	-22.01	-55.47	-37.44	2.43
3507.00	V	-44.07	-13.00	-31.07	-56.61	-51.29	7.22
5260.50	V	-42.47	-13.00	-29.47	-59.86	-49.21	6.74
8767.50	V	-47.66	-13.00	-34.66	-68.59	-50.09	2.43

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 19975						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3425.00	H	-35.61	-13.00	-22.61	-47.86	-43.03	7.42
5137.50	H	-31.69	-13.00	-18.69	-49.28	-38.34	6.65
8562.50	H	-36.51	-13.00	-23.51	-56.48	-39.48	2.97
3425.00	V	-44.21	-13.00	-31.21	-56.48	-51.63	7.42
5137.50	V	-42.09	-13.00	-29.09	-59.43	-48.74	6.65
8562.50	V	-44.31	-13.00	-31.31	-65.12	-47.28	2.97

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-30.97	-13.00	-17.97	-43.41	-38.29	7.32
5197.50	H	-30.29	-13.00	-17.29	-48.23	-37.00	6.71
8662.50	H	-32.41	-13.00	-19.41	-52.46	-35.12	2.71
3465.00	V	-41.17	-13.00	-28.17	-53.58	-48.49	7.32
5197.50	V	-41.48	-13.00	-28.48	-59.12	-48.19	6.71
8662.50	V	-42.36	-13.00	-29.36	-63.28	-45.07	2.71

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20375						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3505.00	H	-34.53	-13.00	-21.53	-47.15	-41.75	7.22
5257.50	H	-33.00	-13.00	-20.00	-50.62	-39.74	6.74
8762.50	H	-35.04	-13.00	-22.04	-55.48	-37.49	2.45
3505.00	V	-43.91	-13.00	-30.91	-56.44	-51.13	7.22
5257.50	V	-42.08	-13.00	-29.08	-59.48	-48.82	6.74
8762.50	V	-47.32	-13.00	-34.32	-68.25	-49.77	2.45

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20000						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3430.00	H	-34.98	-13.00	-21.98	-47.25	-42.39	7.41
5145.00	H	-32.13	-13.00	-19.13	-49.76	-38.79	6.66
8575.00	H	-36.33	-13.00	-23.33	-56.25	-39.26	2.93
3430.00	V	-43.96	-13.00	-30.96	-56.25	-51.37	7.41
5145.00	V	-42.10	-13.00	-29.10	-59.48	-48.76	6.66
8575.00	V	-44.01	-13.00	-31.01	-65.86	-46.94	2.93

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-31.32	-13.00	-18.32	-43.76	-38.64	7.32
5197.50	H	-30.42	-13.00	-17.42	-48.36	-37.13	6.71
8662.50	H	-32.44	-13.00	-19.44	-52.49	-35.15	2.71
3465.00	V	-41.27	-13.00	-28.27	-53.68	-48.59	7.32
5197.50	V	-41.62	-13.00	-28.62	-59.26	-48.33	6.71
8662.50	V	-41.67	-13.00	-28.67	-62.59	-44.38	2.71

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20350						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3500.00	H	-34.65	-13.00	-21.65	-47.25	-41.88	7.23
5250.00	H	-33.60	-13.00	-20.60	-51.25	-40.34	6.74
8750.00	H	-35.56	-13.00	-22.56	-55.95	-38.04	2.48
3500.00	V	-44.29	-13.00	-31.29	-56.81	-51.52	7.23
5250.00	V	-42.02	-13.00	-29.02	-59.45	-48.76	6.74
8750.00	V	-47.41	-13.00	-34.41	-68.34	-49.89	2.48

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20025						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3435.00	H	-35.58	-13.00	-22.58	-47.88	-42.97	7.39
5152.50	H	-31.78	-13.00	-18.78	-49.45	-38.44	6.66
8587.50	H	-36.72	-13.00	-23.72	-56.58	-39.62	2.90
3435.00	V	-44.17	-13.00	-31.17	-56.48	-51.56	7.39
5152.50	V	-42.46	-13.00	-29.46	-59.87	-49.12	6.66
8587.50	V	-43.91	-13.00	-30.91	-64.79	-46.81	2.90

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-31.33	-13.00	-18.33	-43.77	-38.65	7.32
5197.50	H	-30.52	-13.00	-17.52	-48.46	-37.23	6.71
8662.50	H	-32.56	-13.00	-19.56	-52.61	-35.27	2.71
3465.00	V	-41.15	-13.00	-28.15	-53.56	-48.47	7.32
5197.50	V	-41.82	-13.00	-28.82	-59.46	-48.53	6.71
8662.50	V	-42.51	-13.00	-29.51	-63.43	-45.22	2.71

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20325						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3495.00	H	-34.57	-13.00	-21.57	-47.15	-41.82	7.25
5242.50	H	-33.50	-13.00	-20.50	-51.19	-40.23	6.73
8737.50	H	-35.32	-13.00	-22.32	-55.66	-37.83	2.51
3495.00	V	-44.05	-13.00	-31.05	-56.56	-51.30	7.25
5242.50	V	-42.42	-13.00	-29.42	-59.88	-49.15	6.73
8737.50	V	-47.25	-13.00	-34.25	-68.18	-49.76	2.51

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20050						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3440.00	H	-34.11	-13.00	-21.11	-46.63	-41.49	7.38
5160.00	H	-32.25	-13.00	-19.25	-49.97	-38.92	6.67
8600.00	H	-36.64	-13.00	-23.64	-56.44	-39.51	2.87
3440.00	V	-34.62	-13.00	-21.62	-46.94	-42.00	7.38
5160.00	V	-42.48	-13.00	-29.48	-59.93	-49.15	6.67
8600.00	V	-45.74	-13.00	-32.74	-66.65	-48.61	2.87

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-31.33	-13.00	-18.33	-43.77	-38.65	7.32
5197.50	H	-30.93	-13.00	-17.93	-48.87	-37.64	6.71
8662.50	H	-32.53	-13.00	-19.53	-52.58	-35.24	2.71
3465.00	V	-41.45	-13.00	-28.45	-53.86	-48.77	7.32
5197.50	V	-40.52	-13.00	-27.52	-58.16	-47.23	6.71
8662.50	V	-41.13	-13.00	-28.13	-62.05	-43.84	2.71

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3490.00	H	-35.12	-13.00	-22.12	-47.67	-42.38	7.26
5235.00	H	-32.59	-13.00	-19.59	-50.33	-39.32	6.73
8725.00	H	-35.88	-13.00	-22.88	-56.17	-38.42	2.54
3490.00	V	-44.38	-13.00	-31.38	-56.86	-51.64	7.26
5235.00	V	-42.42	-13.00	-29.42	-59.91	-49.15	6.73
8725.00	V	-45.98	-13.00	-32.98	-66.91	-48.52	2.54

Note: EIRP = S.G Power value + Correction factor

Configuration 2: Directional antenna with antenna cable

3.2.6 Test Result of Radiated Emissions below 1GHz

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20393						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.84	H	-55.26	-13.00	-42.26	-49.87	-52.76	-2.50
224.38	H	-56.41	-13.00	-43.41	-52.19	-54.42	-1.99
249.58	H	-57.96	-13.00	-44.96	-54.96	-56.47	-1.49
299.47	H	-60.54	-13.00	-47.54	-59.30	-59.08	-1.46
324.93	H	-62.45	-13.00	-49.45	-62.61	-61.05	-1.40
399.68	H	-61.22	-13.00	-48.22	-63.86	-59.84	-1.38
200.52	V	-59.44	-13.00	-46.44	-59.43	-56.97	-2.47
224.36	V	-53.98	-13.00	-40.98	-55.07	-51.99	-1.99
249.41	V	-57.46	-13.00	-44.46	-59.70	-55.97	-1.49
299.55	V	-57.24	-13.00	-44.24	-59.22	-55.78	-1.46
324.96	V	-61.58	-13.00	-48.58	-63.58	-60.18	-1.40
600.29	V	-59.32	-13.00	-46.32	-67.82	-57.44	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20385						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.54	H	-56.78	-13.00	-43.78	-51.44	-54.26	-2.52
223.85	H	-56.33	-13.00	-43.33	-52.08	-54.33	-2.00
250.48	H	-57.44	-13.00	-44.44	-54.49	-55.96	-1.48
300.59	H	-61.22	-13.00	-48.22	-60.03	-59.76	-1.46
324.88	H	-62.49	-13.00	-49.49	-62.64	-61.09	-1.40
399.66	H	-60.14	-13.00	-47.14	-62.78	-58.76	-1.38
199.81	V	-58.72	-13.00	-45.72	-58.70	-56.22	-2.50
225.75	V	-53.16	-13.00	-40.16	-54.31	-51.19	-1.97
250.47	V	-57.14	-13.00	-44.14	-59.42	-55.66	-1.48
299.55	V	-57.11	-13.00	-44.11	-59.09	-55.65	-1.46
324.95	V	-61.42	-13.00	-48.42	-63.42	-60.02	-1.40
600.28	V	-59.34	-13.00	-46.34	-67.84	-57.46	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20375						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.32	H	-55.88	-13.00	-42.88	-50.57	-53.33	-2.55
224.43	H	-57.44	-13.00	-44.44	-53.22	-55.45	-1.99
249.32	H	-57.84	-13.00	-44.84	-54.83	-56.35	-1.49
299.27	H	-60.83	-13.00	-47.83	-59.58	-59.37	-1.46
324.91	H	-62.59	-13.00	-49.59	-62.75	-61.19	-1.40
399.78	H	-60.77	-13.00	-47.77	-63.42	-59.39	-1.38
199.88	V	-59.95	-13.00	-46.95	-59.93	-57.46	-2.49
224.00	V	-52.41	-13.00	-39.41	-53.48	-50.41	-2.00
249.81	V	-57.66	-13.00	-44.66	-59.92	-56.18	-1.48
300.52	V	-56.24	-13.00	-43.24	-58.22	-54.78	-1.46
324.51	V	-60.82	-13.00	-47.82	-62.82	-59.42	-1.40
600.75	V	-59.41	-13.00	-46.41	-67.91	-57.53	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20350						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.42	H	-56.93	-13.00	-43.93	-51.61	-54.39	-2.54
224.55	H	-56.72	-13.00	-43.72	-52.50	-54.73	-1.99
249.71	H	-57.43	-13.00	-44.43	-54.44	-55.94	-1.49
299.77	H	-60.55	-13.00	-47.55	-59.32	-59.09	-1.46
324.72	H	-61.82	-13.00	-48.82	-61.96	-60.42	-1.40
399.81	H	-60.45	-13.00	-47.45	-63.10	-59.07	-1.38
200.26	V	-59.74	-13.00	-46.74	-59.72	-57.27	-2.47
224.44	V	-53.26	-13.00	-40.26	-54.35	-51.27	-1.99
249.33	V	-57.41	-13.00	-44.41	-59.65	-55.92	-1.49
299.28	V	-57.54	-13.00	-44.54	-59.52	-56.08	-1.46
324.31	V	-60.87	-13.00	-47.87	-62.87	-59.47	-1.40
600.93	V	-58.45	-13.00	-45.45	-66.96	-56.57	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20325						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.43	H	-55.88	-13.00	-42.88	-50.56	-53.34	-2.54
224.45	H	-55.26	-13.00	-42.26	-51.04	-53.27	-1.99
249.48	H	-56.43	-13.00	-43.43	-53.42	-54.94	-1.49
299.87	H	-61.59	-13.00	-48.59	-60.37	-60.13	-1.46
324.52	H	-61.74	-13.00	-48.74	-61.87	-60.34	-1.40
399.69	H	-60.32	-13.00	-47.32	-62.96	-58.94	-1.38
200.56	V	-59.44	-13.00	-46.44	-59.44	-56.97	-2.47
223.96	V	-52.56	-13.00	-39.56	-53.63	-50.56	-2.00
249.44	V	-56.99	-13.00	-43.99	-59.23	-55.50	-1.49
300.06	V	-56.27	-13.00	-43.27	-58.25	-54.81	-1.46
324.22	V	-61.75	-13.00	-48.75	-63.75	-60.35	-1.40
600.27	V	-59.43	-13.00	-46.43	-67.93	-57.55	-1.88

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.75	H	-56.18	-13.00	-43.18	-50.81	-53.68	-2.50
224.00	H	-56.14	-13.00	-43.14	-51.90	-54.14	-2.00
249.22	H	-57.61	-13.00	-44.61	-54.59	-56.11	-1.50
299.66	H	-61.05	-13.00	-48.05	-59.82	-59.59	-1.46
324.88	H	-62.17	-13.00	-49.17	-62.32	-60.77	-1.40
399.57	H	-60.91	-13.00	-47.91	-63.55	-59.53	-1.38
199.75	V	-59.36	-13.00	-46.36	-59.34	-56.86	-2.50
224.00	V	-53.77	-13.00	-40.77	-54.84	-51.77	-2.00
249.22	V	-57.54	-13.00	-44.54	-59.77	-56.04	-1.50
299.66	V	-57.17	-13.00	-44.17	-59.15	-55.71	-1.46
324.88	V	-61.90	-13.00	-48.90	-63.90	-60.50	-1.40
600.36	V	-59.05	-13.00	-46.05	-67.55	-57.17	-1.88

Note: EIRP = S.G Power value + Correction factor

3.2.7 Test Result of Radiated Emissions above 1GHz

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 19957						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3421.40	H	-52.30	-13.00	-39.30	-64.54	-59.73	7.43
5132.10	H	-42.99	-13.00	-29.99	-60.55	-49.64	6.65
8553.50	H	-49.48	-13.00	-36.48	-69.49	-52.47	2.99
3421.40	V	-51.97	-13.00	-38.97	-64.24	-59.40	7.43
5132.10	V	-39.93	-13.00	-26.93	-57.25	-46.58	6.65
8553.50	V	-46.94	-13.00	-33.94	-67.73	-49.93	2.99

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-51.86	-13.00	-38.86	-64.30	-59.18	7.32
5197.50	H	-40.80	-13.00	-27.80	58.74	-47.51	6.71
8662.50	H	-50.27	-13.00	-37.27	-70.32	-52.98	2.71
3465.00	V	-51.36	-13.00	-38.36	-63.77	-58.68	7.32
5197.50	V	-39.41	-13.00	-26.41	-57.05	-46.12	6.71
8662.50	V	-45.98	-13.00	-32.98	-66.90	-48.69	2.71

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20393						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3508.60	H	-52.94	-13.00	-39.94	-65.58	-60.15	7.21
5262.90	H	-42.11	-13.00	-29.11	-59.69	-48.85	6.74
8771.50	H	-48.83	-13.00	-35.83	-69.30	-51.25	2.42
3508.60	V	-52.85	-13.00	-39.85	-65.40	-60.06	7.21
5262.90	V	-39.60	-13.00	-26.60	-56.98	-46.34	6.74
8771.50	V	-45.16	-13.00	-32.16	-66.09	-47.58	2.42

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 19965						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3423.00	H	-52.61	-13.00	-39.61	-64.85	-60.03	7.42
5134.50	H	-42.69	-13.00	-29.69	-60.26	-49.34	6.65
8557.50	H	-49.26	-13.00	-36.26	-69.25	-52.24	2.98
3423.00	V	-52.10	-13.00	-39.10	-64.37	-59.52	7.42
5134.50	V	-40.06	-13.00	-27.06	-57.39	-46.71	6.65
8557.50	V	-46.89	-13.00	-33.89	-67.69	-49.87	2.98

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-51.81	-13.00	-38.81	-64.25	-59.13	7.32
5197.50	H	-40.52	-13.00	-27.52	-58.46	-47.23	6.71
8662.50	H	50.21	-13.00	63.21	-70.26	47.50	2.71
3465.00	V	-51.28	-13.00	-38.28	-63.69	-58.60	7.32
5197.50	V	-39.64	-13.00	-26.64	-57.28	-46.35	6.71
8662.50	V	-45.96	-13.00	-32.96	-66.88	-48.67	2.71

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20385						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3507.00	H	-53.06	-13.00	-40.06	-65.69	-60.28	7.22
5260.50	H	-42.29	-13.00	-29.29	-59.89	-49.03	6.74
8767.50	H	-49.02	-13.00	-36.02	-69.48	-51.45	2.43
3507.00	V	-52.71	-13.00	-39.71	-65.25	-59.93	7.22
5260.50	V	-39.48	-13.00	-26.48	-56.87	-46.22	6.74
8767.50	V	-45.35	-13.00	-32.35	-66.28	-47.78	2.43

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 19975						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3425.00	H	-52.01	-13.00	-39.01	-64.26	-59.43	7.42
5137.50	H	-42.83	-13.00	-29.83	-60.42	-49.48	6.65
8562.50	H	-49.28	-13.00	-36.28	-69.25	-52.25	2.97
3425.00	V	-52.12	-13.00	-39.12	-64.39	-59.54	7.42
5137.50	V	-40.14	-13.00	-27.14	-57.48	-46.79	6.65
8562.50	V	-46.67	-13.00	-33.67	-67.48	-49.64	2.97

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-52.84	-13.00	-39.84	-65.28	-60.16	7.32
5197.50	H	-40.76	-13.00	-27.76	-58.70	-47.47	6.71
8662.50	H	-50.23	-13.00	-37.23	-70.28	-52.94	2.71
3465.00	V	-51.07	-13.00	-38.07	-63.48	-58.39	7.32
5197.50	V	-39.22	-13.00	-26.22	-56.86	-45.93	6.71
8662.50	V	-45.83	-13.00	-32.83	-66.75	-48.54	2.71

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20375						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3505.00	H	-52.88	-13.00	-39.88	-65.50	-60.10	7.22
5257.50	H	-42.41	-13.00	-29.41	-60.03	-49.15	6.74
8762.50	H	-48.49	-13.00	-35.49	-68.93	-50.94	2.45
3505.00	V	-50.94	-13.00	-37.94	-63.47	-58.16	7.22
5257.50	V	-40.62	-13.00	-27.62	-58.02	-47.36	6.74
8762.50	V	-46.69	-13.00	-33.69	-67.62	-49.14	2.45

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20000						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3430.00	H	-52.21	-13.00	-39.21	-64.48	-59.62	7.41
5145.00	H	-42.62	-13.00	-29.62	-60.25	-49.28	6.66
8575.00	H	-49.32	-13.00	-36.32	-69.24	-52.25	2.93
3430.00	V	-52.09	-13.00	-39.09	-64.38	-59.50	7.41
5145.00	V	-40.01	-13.00	-27.01	-57.39	-46.67	6.66
8575.00	V	-46.76	-13.00	-33.76	-67.61	-49.69	2.93

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-52.15	-13.00	-39.15	-64.59	-59.47	7.32
5197.50	H	-40.68	-13.00	-27.68	-58.62	-47.39	6.71
8662.50	H	-50.44	-13.00	-37.44	-70.49	-53.15	2.71
3465.00	V	-51.17	-13.00	-38.17	-63.58	-58.49	7.32
5197.50	V	-39.62	-13.00	-26.62	-57.26	-46.33	6.71
8662.50	V	-45.86	-13.00	-32.86	-66.78	-48.57	2.71

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20350						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3500.00	H	-52.86	-13.00	-39.86	-65.46	-60.09	7.23
5250.00	H	-42.19	-13.00	-29.19	-59.84	-48.93	6.74
8750.00	H	-48.82	-13.00	-35.82	-69.21	-51.30	2.48
3500.00	V	-52.76	-13.00	-39.76	-65.28	-59.99	7.23
5250.00	V	-39.82	-13.00	-26.82	-57.25	-46.56	6.74
8750.00	V	-45.24	-13.00	-32.24	-66.17	-47.72	2.48

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20025						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3435.00	H	-51.96	-13.00	-38.96	-64.26	-59.35	7.39
5152.50	H	-42.75	-13.00	-29.75	-60.42	-49.41	6.66
8587.50	H	-49.38	-13.00	-36.38	-69.24	-52.28	2.90
3435.00	V	-52.17	-13.00	-39.17	-64.48	-59.56	7.39
5152.50	V	-40.07	-13.00	-27.07	-57.48	-46.73	6.66
8587.50	V	-46.61	-13.00	-33.61	-67.49	-49.51	2.90

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-51.71	-13.00	-38.71	-64.15	-59.03	7.32
5197.50	H	-40.75	-13.00	-27.75	-58.69	-47.46	6.71
8662.50	H	-50.10	-13.00	-37.10	-70.15	-52.81	2.71
3465.00	V	-51.27	-13.00	-38.27	-63.68	-58.59	7.32
5197.50	V	-39.64	-13.00	-26.64	-57.28	-46.35	6.71
8662.50	V	-45.82	-13.00	-32.82	-66.74	-48.53	2.71

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20325						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3495.00	H	-52.67	-13.00	-39.67	-65.25	-59.92	7.25
5242.50	H	-42.05	-13.00	-29.05	-59.74	-48.78	6.73
8737.50	H	-49.14	-13.00	-36.14	-69.48	-51.65	2.51
3495.00	V	-52.75	-13.00	-39.75	-65.26	-60.00	7.25
5242.50	V	-39.29	-13.00	-26.29	-56.75	-46.02	6.73
8737.50	V	-45.35	-13.00	-32.35	-66.28	-47.86	2.51

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20050						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3440.00	H	-51.58	-13.00	-38.58	-63.90	-58.96	7.38
5160.00	H	-43.08	-13.00	-30.08	-60.80	-49.75	6.67
8600.00	H	-49.82	-13.00	-36.82	-69.62	-52.69	2.87
3440.00	V	-51.41	-13.00	-38.41	-63.73	-58.79	7.38
5160.00	V	-40.15	-13.00	-27.15	-57.60	-46.82	6.67
8600.00	V	-47.07	-13.00	-34.07	-67.98	-49.94	2.87

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-51.45	-13.00	-38.45	-63.89	-58.77	7.32
5197.50	H	-41.97	-13.00	-28.97	-59.91	-48.68	6.71
8662.50	H	-50.25	-13.00	-37.25	-70.30	-52.96	2.71
3465.00	V	-51.25	-13.00	-38.25	-63.66	-58.57	7.32
5197.50	V	-39.45	-13.00	-26.45	-57.09	-46.16	6.71
8662.50	V	-45.90	-13.00	-32.90	-66.82	-48.61	2.71

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3490.00	H	-52.32	-13.00	-39.32	-65.87	-59.58	7.26
5235.00	H	-42.31	-13.00	-29.31	-60.85	-49.04	6.73
8725.00	H	-48.95	-13.00	-35.95	-69.24	-51.49	2.54
3490.00	V	-53.17	-13.00	-40.17	-65.65	-60.43	7.26
5235.00	V	-39.74	-13.00	-26.74	-57.23	-46.47	6.73
8725.00	V	-44.94	-13.00	-31.94	-65.87	-47.48	2.54

Note: EIRP = S.G Power value + Correction factor

Configuration 3: Individual antenna

3.2.8 Test Result of Radiated Emissions below 1GHz

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20393						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.65	H	-60.49	-13.00	-47.49	-55.13	-57.98	-2.51
224.38	H	-56.45	-13.00	-43.45	-52.23	-54.46	-1.99
249.33	H	-62.95	-13.00	-49.95	-59.94	-61.46	-1.49
274.46	H	-59.44	-13.00	-46.44	-57.33	-57.97	-1.47
229.55	H	-56.48	-13.00	-43.48	-55.24	-55.02	-1.46
324.55	H	-61.23	-13.00	-48.23	-61.37	-59.83	-1.40
199.42	V	-55.84	-13.00	-42.84	-55.84	-53.30	-2.54
223.92	V	-56.47	-13.00	-43.47	-57.54	-54.47	-2.00
249.54	V	-57.92	-13.00	-44.92	-60.17	-56.43	-1.49
274.43	V	-60.11	-13.00	-47.11	-62.24	-58.64	-1.47
300.45	V	-55.48	-13.00	-42.48	-57.46	-54.02	-1.46
324.95	V	-60.72	-13.00	-47.72	-62.72	-59.32	-1.40

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20385						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.68	H	-60.47	-13.00	-47.47	-55.11	-57.96	-2.51
225.32	H	-55.93	-13.00	-42.93	-51.75	-53.96	-1.97
250.28	H	-62.03	-13.00	-49.03	-59.07	-60.55	-1.48
275.35	H	-60.42	-13.00	-47.42	-58.34	-58.95	-1.47
299.35	H	-55.79	-13.00	-42.79	-54.55	-54.33	-1.46
325.21	H	-61.06	-13.00	-48.06	-61.23	-59.67	-1.39
200.18	V	-56.65	-13.00	-43.65	-56.63	-54.17	-2.48
224.73	V	-56.09	-13.00	-43.09	-57.20	-54.10	-1.99
250.17	V	-57.47	-13.00	-44.47	-59.75	-55.99	-1.48
274.51	V	-58.62	-13.00	-45.62	-60.75	-57.15	-1.47
299.89	V	-54.34	-13.00	-41.34	-56.32	-52.88	-1.46
324.57	V	-60.45	-13.00	-47.45	-62.45	-59.05	-1.40

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20375						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.64	H	-60.19	-13.00	-47.19	-54.83	-57.67	-2.52
224.25	H	-56.98	-13.00	-43.98	-52.75	-54.98	-2.00
249.55	H	-62.34	-13.00	-49.34	-59.34	-60.85	-1.49
274.33	H	-59.97	-13.00	-46.97	-57.85	-58.50	-1.47
300.58	H	-56.85	-13.00	-43.85	-55.66	-55.39	-1.46
324.43	H	-60.24	-13.00	-47.24	-60.37	-58.84	-1.40
199.47	V	-55.88	-13.00	-42.88	-55.88	-53.35	-2.53
244.27	V	-56.93	-13.00	-43.93	-58.02	-54.94	-1.99
248.85	V	-57.62	-13.00	-44.62	-59.87	-56.12	-1.50
274.35	V	-60.59	-13.00	-47.59	-62.72	-59.12	-1.47
300.27	V	-55.14	-13.00	-42.14	-57.12	-53.68	-1.46
325.25	V	-60.51	-13.00	-47.51	-62.50	-59.12	-1.39

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20350						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
198.48	H	-59.42	-13.00	-46.42	-54.24	-56.79	-2.63
225.47	H	-55.38	-13.00	-42.38	-51.21	-53.41	-1.97
249.74	H	-61.75	-13.00	-48.75	-58.76	-60.26	-1.49
275.58	H	-59.24	-13.00	-46.24	-57.17	-57.77	-1.47
300.15	H	-56.96	-13.00	-43.96	-55.75	-55.50	-1.46
324.55	H	-60.87	-13.00	-47.87	-61.01	-59.47	-1.40
199.91	V	-55.72	-13.00	-42.72	-55.70	-53.23	-2.49
225.88	V	-55.42	-13.00	-42.42	-56.58	-53.46	-1.96
249.56	V	-57.58	-13.00	-44.58	-59.83	-56.09	-1.49
274.21	V	-59.64	-13.00	-46.64	-61.78	-58.17	-1.47
299.66	V	-55.58	-13.00	-42.58	-57.56	-54.12	-1.46
324.94	V	-60.79	-13.00	-47.79	-62.79	-59.39	-1.40

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20325						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
199.75	H	-60.27	-13.00	-47.27	-54.90	-57.77	-2.50
224.00	H	-56.52	-13.00	-43.52	-52.28	-54.52	-2.00
249.22	H	-62.82	-13.00	-49.82	-59.80	-61.32	-1.50
274.44	H	-59.53	-13.00	-46.53	-57.42	-58.06	-1.47
299.66	H	-56.21	-13.00	-43.21	-54.98	-54.75	-1.46
324.88	H	-61.17	-13.00	-48.17	-61.32	-59.77	-1.40
199.75	V	-55.99	-13.00	-42.99	-55.97	-53.49	-2.50
224.00	V	-56.40	-13.00	-43.40	-57.47	-54.40	-2.00
249.22	V	-58.19	-13.00	-45.19	-60.42	-56.69	-1.50
274.44	V	-59.97	-13.00	-46.97	-62.10	-58.50	-1.47
299.66	V	-55.79	-13.00	-42.79	-57.77	-54.33	-1.46
324.88	V	-60.86	-13.00	-47.86	-62.86	-59.46	-1.40

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
200.45	H	-59.45	-13.00	-46.45	-54.06	-56.98	-2.47
223.89	H	-55.84	-13.00	-42.84	-51.59	-53.84	-2.00
250.85	H	-61.72	-13.00	-48.72	-58.78	-60.24	-1.48
275.96	H	-59.05	-13.00	-46.05	-56.99	-57.58	-1.47
300.16	H	-55.49	-13.00	-42.49	-54.28	-54.03	-1.46
324.11	H	-60.83	-13.00	-47.83	-60.94	-59.43	-1.40
198.48	V	-56.46	-13.00	-43.46	-56.52	-53.83	-2.63
224.65	V	-57.82	-13.00	-44.82	-58.92	-55.83	-1.99
249.41	V	-58.96	-13.00	-45.96	-61.20	-57.47	-1.49
274.99	V	-57.45	-13.00	-44.45	-59.58	-55.98	-1.47
299.17	V	-55.29	-13.00	-42.29	-57.28	-53.83	-1.46
324.63	V	-60.34	-13.00	-47.34	-62.34	-58.94	-1.40

Note: EIRP = S.G Power value + Correction factor

3.2.9 Test Result of Radiated Emissions above 1GHz

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 19957						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3421.40	H	-54.54	-13.00	-41.54	-66.78	-61.97	7.43
5132.10	H	-40.77	-13.00	-27.77	-58.33	-47.42	6.65
8553.50	H	-54.24	-13.00	-41.24	-74.25	-57.23	2.99
3421.40	V	-44.42	-13.00	-31.42	-56.69	-51.85	7.43
5132.10	V	-32.94	-13.00	-19.94	-50.26	-39.59	6.65
8553.50	V	-53.54	-13.00	-40.54	-74.33	-56.53	2.99

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-53.25	-13.00	-40.25	-65.69	-60.57	7.32
5197.50	H	-35.33	-13.00	-22.33	-53.27	-42.04	6.71
8662.50	H	-54.20	-13.00	-41.20	-74.25	-56.91	2.71
3465.00	V	-43.30	-13.00	-30.30	-55.71	-50.62	7.32
5197.50	V	-29.21	-13.00	-16.21	-46.85	-35.92	6.71
8662.50	V	-53.30	-13.00	-40.30	-74.22	-56.01	2.71

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 3, Channel : 20393						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3508.60	H	-53.69	-13.00	-40.69	-66.33	-60.90	7.21
5262.90	H	-36.64	-13.00	-23.64	-54.22	-43.38	6.74
8771.50	H	-53.72	-13.00	-40.72	-74.19	-56.14	2.42
3508.60	V	-43.56	-13.00	-30.56	-56.11	-50.77	7.21
5262.90	V	-29.17	-13.00	-16.17	-46.55	-35.91	6.74
8771.50	V	-53.32	-13.00	-40.32	-74.25	-55.74	2.42

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 19965						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3423.00	H	-54.32	-13.00	-41.32	-66.56	-61.74	7.42
5134.50	H	-40.88	-13.00	-27.88	-58.45	-47.53	6.65
8557.50	H	-54.32	-13.00	-41.32	-74.31	-57.30	2.98
3423.00	V	-44.58	-13.00	-31.58	-56.85	-52.00	7.42
5134.50	V	-33.15	-13.00	-20.15	-50.48	-39.80	6.65
8557.50	V	-53.45	-13.00	-40.45	-74.25	-56.43	2.98

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-53.42	-13.00	-40.42	-65.86	-60.74	7.32
5197.50	H	-35.53	-13.00	-22.53	-53.47	-42.24	6.71
8662.50	H	-54.11	-13.00	-41.11	-74.16	-56.82	2.71
3465.00	V	-43.05	-13.00	-30.05	-55.46	-50.37	7.32
5197.50	V	-28.94	-13.00	-15.94	-46.58	-35.65	6.71
8662.50	V	-53.41	-13.00	-40.41	-74.33	-56.12	2.71

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 8, Channel : 20385						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3507.00	H	-53.82	-13.00	-40.82	-66.45	-61.04	7.22
5260.50	H	-36.80	-13.00	-23.80	-54.40	-43.54	6.74
8767.50	H	-53.86	-13.00	-40.86	-74.32	-56.29	2.43
3507.00	V	-43.72	-13.00	-30.72	-56.26	-50.94	7.22
5260.50	V	-29.30	-13.00	-16.30	-46.69	-36.04	6.74
8767.50	V	-53.23	-13.00	-40.23	-74.16	-55.66	2.43

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 19975						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3425.00	H	-54.43	-13.00	-41.43	-66.68	-61.85	7.42
5137.50	H	-40.90	-13.00	-27.90	-58.49	-47.55	6.65
8562.50	H	-54.21	-13.00	-41.21	-74.18	-57.18	2.97
3425.00	V	-44.18	-13.00	-31.18	-56.45	-51.60	7.42
5137.50	V	-33.05	-13.00	-20.05	-50.39	-39.70	6.65
8562.50	V	-53.44	-13.00	-40.44	-74.25	-56.41	2.97

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-53.42	-13.00	-40.42	-65.86	-60.74	7.32
5197.50	H	-35.46	-13.00	-22.46	-53.40	-42.17	6.71
8662.50	H	-54.30	-13.00	-41.30	-74.35	-57.01	2.71
3465.00	V	-43.08	-13.00	-30.08	-55.49	-50.40	7.32
5197.50	V	-28.94	-13.00	-15.94	-46.58	-35.65	6.71
8662.50	V	-53.27	-13.00	-40.27	-74.19	-55.98	2.71

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 12, Channel : 20375						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3505.00	H	-53.83	-13.00	-40.83	-66.45	-61.05	7.22
5257.50	H	-36.58	-13.00	-23.58	-54.20	-43.32	6.74
8762.50	H	-53.95	-13.00	-40.95	-74.39	-56.40	2.45
3505.00	V	-43.72	-13.00	-30.72	-56.25	-50.94	7.22
5257.50	V	-29.09	-13.00	-16.09	-46.49	-35.83	6.74
8762.50	V	-53.20	-13.00	-40.20	-74.13	-55.65	2.45

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20000						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3430.00	H	-54.42	-13.00	-41.42	-66.69	-61.83	7.41
5145.00	H	-40.96	-13.00	-27.96	-58.59	-47.62	6.66
8575.00	H	-54.32	-13.00	-41.32	-74.24	-57.25	2.93
3430.00	V	-44.60	-13.00	-31.60	-56.89	-52.01	7.41
5145.00	V	-32.67	-13.00	-19.67	-50.05	-39.33	6.66
8575.00	V	-53.40	-13.00	-40.40	-74.25	-56.33	2.93

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-53.42	-13.00	-40.42	-65.86	-60.74	7.32
5197.50	H	-35.53	-13.00	-22.53	-53.47	-42.24	6.71
8662.50	H	-54.11	-13.00	-41.11	-74.16	-56.82	2.71
3465.00	V	-43.28	-13.00	-30.28	-55.69	-50.60	7.32
5197.50	V	-28.94	-13.00	-15.94	-46.58	-35.65	6.71
8662.50	V	-53.26	-13.00	-40.26	-74.18	-55.97	2.71

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 25, Channel : 20350						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3500.00	H	-53.99	-13.00	-40.99	-66.59	-61.22	7.23
5250.00	H	-36.40	-13.00	-23.40	-54.05	-43.14	6.74
8750.00	H	-53.81	-13.00	-40.81	-74.20	-56.29	2.48
3500.00	V	-43.74	-13.00	-30.74	-56.26	-50.97	7.23
5250.00	V	-29.44	-13.00	-16.44	-46.87	-36.18	6.74
8750.00	V	-53.43	-13.00	-40.43	-74.36	-55.91	2.48

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20025						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3435.00	H	-54.19	-13.00	-41.19	-66.49	-61.58	7.39
5152.50	H	-40.81	-13.00	-27.81	-58.48	-47.47	6.66
8587.50	H	-54.31	-13.00	-41.31	-74.17	-57.21	2.90
3435.00	V	-44.64	-13.00	-31.64	-56.95	-52.03	7.39
5152.50	V	-32.96	-13.00	-19.96	-50.37	-39.62	6.66
8587.50	V	-53.29	-13.00	-40.29	-74.17	-56.19	2.90

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-53.44	-13.00	-40.44	-65.88	-60.76	7.32
5197.50	H	-35.53	-13.00	-22.53	-53.47	-42.24	6.71
8662.50	H	-54.13	-13.00	-41.13	-74.18	-56.84	2.71
3465.00	V	-43.08	-13.00	-30.08	-55.49	-50.40	7.32
5197.50	V	-29.11	-13.00	-16.11	-46.75	-35.82	6.71
8662.50	V	-53.53	-13.00	-40.53	-74.45	-56.24	2.71

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 37, Channel : 20325						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3495.00	H	-53.90	-13.00	-40.90	-66.48	-61.15	7.25
5242.50	H	-36.69	-13.00	-23.69	-57.38	-43.42	6.73
8737.50	H	-53.94	-13.00	-40.94	-74.28	-56.45	2.51
3495.00	V	-43.89	-13.00	-30.89	-56.40	-51.14	7.25
5242.50	V	-29.02	-13.00	-16.02	-46.48	-35.75	6.73
8737.50	V	-53.22	-13.00	-40.22	-74.15	-55.73	2.51

Note: EIRP = S.G Power value + Correction factor

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20050						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3440.00	H	-54.54	-13.00	-41.54	-66.86	-61.92	7.38
5160.00	H	-40.54	-13.00	-27.54	-58.26	-47.21	6.67
8600.00	H	-54.51	-13.00	-41.51	-74.31	-57.38	2.87
3440.00	V	-44.63	-13.00	-31.63	-56.95	-52.01	7.38
5160.00	V	-32.69	-13.00	-19.69	-50.14	-39.36	6.67
8600.00	V	-53.34	-13.00	-40.34	-74.25	-56.21	2.87

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3465.00	H	-53.03	-13.00	-40.03	-65.47	-60.35	7.32
5197.50	H	-36.84	-13.00	-23.84	-54.78	-43.55	6.71
8662.50	H	-54.18	-13.00	-41.18	-74.23	-56.89	2.71
3465.00	V	-43.41	-13.00	-30.41	-55.82	-50.73	7.32
5197.50	V	-29.03	-13.00	-16.03	-46.67	-35.74	6.71
8662.50	V	-53.23	-13.00	-40.23	-74.15	-55.94	2.71

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 49, Channel : 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
3490.00	H	-52.80	-13.00	-39.80	-65.35	-60.06	7.26
5235.00	H	-36.61	-13.00	-23.61	-54.35	-43.34	6.73
8725.00	H	-53.99	-13.00	-40.99	-74.28	-56.53	2.54
3490.00	V	-43.72	-13.00	-30.72	-56.20	-50.98	7.26
5235.00	V	-29.11	-13.00	-16.11	-46.60	-35.84	6.73
8725.00	V	-53.38	-13.00	-40.38	-74.31	-55.92	2.54

Note: EIRP = S.G Power value + Correction factor

3.3 Conducted Emissions

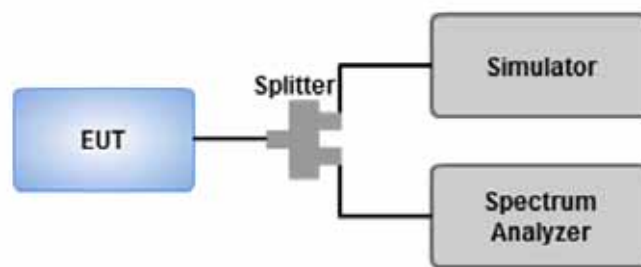
3.3.1 Limit of Conducted Emissions

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.

3.3.2 Test Procedures

1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30MHz~20GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector =Peak, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

3.3.3 Test Setup



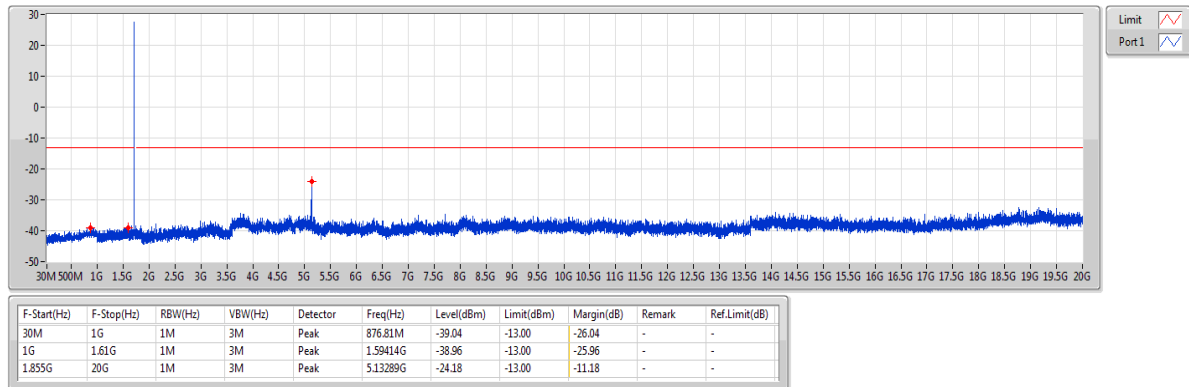
3.3.4 Test Result of Conducted Emissions

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
Band 4	-	-	-	-	-	-	-	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	1.855G	20G	1M	3M	Peak	5.13289G	-24.18	-13.00	-11.18	-	-
LTE_1.4MHz_Nss1,16QAM_1TX	Pass	1.855G	20G	1M	3M	Peak	5.19731G	-24.51	-13.00	-11.51	-	-
LTE_3MHz_Nss1,QPSK_1TX	Pass	1.855G	20G	1M	3M	Peak	5.19822G	-23.44	-13.00	-10.44	-	-
LTE_3MHz_Nss1,16QAM_1TX	Pass	1.855G	20G	1M	3M	Peak	5.13562G	-24.12	-13.00	-11.12	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	1.855G	20G	1M	3M	Peak	5.19731G	-23.08	-13.00	-10.08	-	-
LTE_5MHz_Nss1,16QAM_1TX	Pass	1.855G	20G	1M	3M	Peak	5.13743G	-24.77	-13.00	-11.77	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	1.855G	20G	1M	3M	Peak	5.1456G	-23.58	-13.00	-10.58	-	-
LTE_10MHz_Nss1,16QAM_1TX	Pass	1.855G	20G	1M	3M	Peak	5.1456G	-25.44	-13.00	-12.44	-	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	1.855G	20G	1M	3M	Peak	5.19822G	-24.44	-13.00	-11.44	-	-
LTE_15MHz_Nss1,16QAM_1TX	Pass	1.855G	20G	1M	3M	Peak	5.15285G	-25.70	-13.00	-12.70	-	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	1.855G	20G	1M	3M	Peak	5.19731G	-23.53	-13.00	-10.53	-	-
LTE_20MHz_Nss1,16QAM_1TX	Pass	1.855G	20G	1M	3M	Peak	5.19731G	-24.45	-13.00	-11.45	-	-

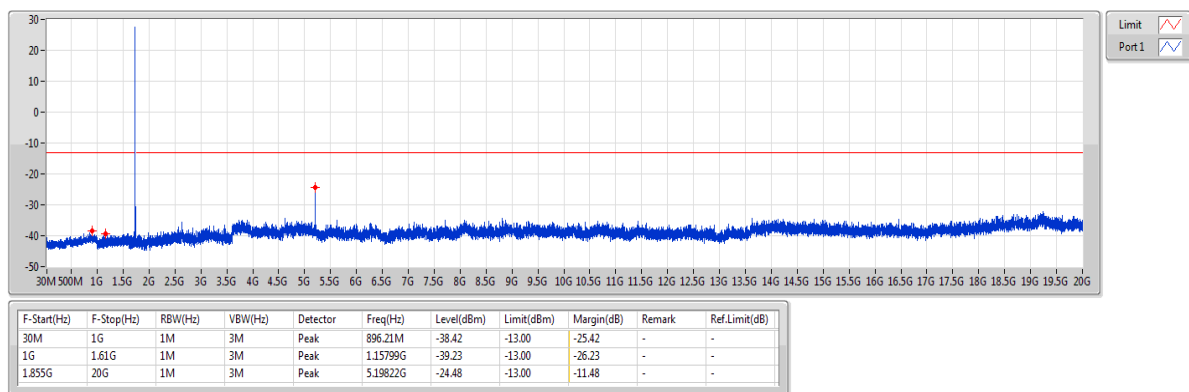
Band 4_LTE_1.4MHz_Nss1,QPSK_1TX
1710.7MHz_QPSK_RB 1,#RB 3

CSE-TX-Sum



Band 4_LTE_1.4MHz_Nss1,QPSK_1TX
1732.5MHz_QPSK_RB 1,#RB 3

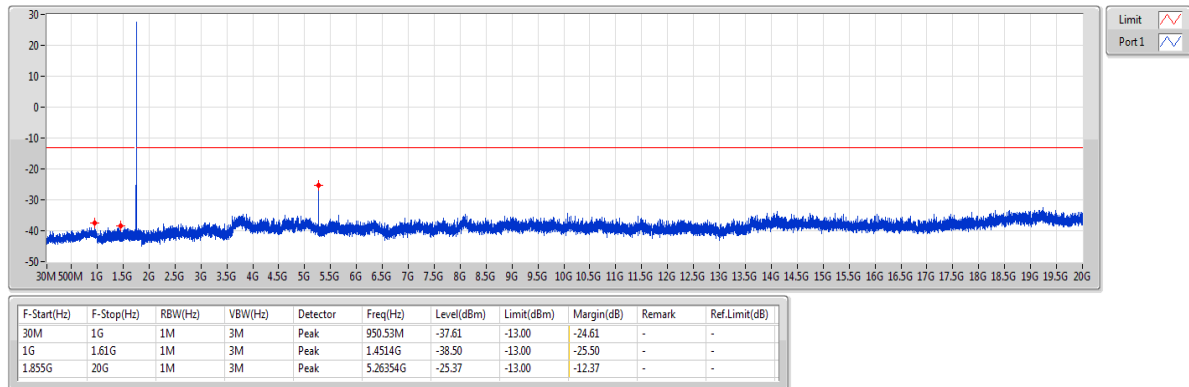
CSE-TX-Sum



Band 4_LTE_1.4MHz_Nss1,QPSK_1TX

CSE-TX-Sum

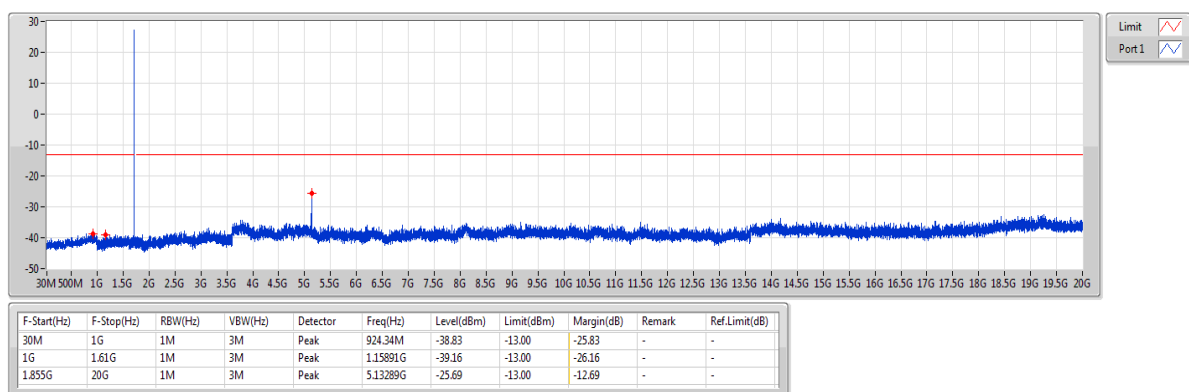
1754.3MHz_QPSK_RB 1,#RB 3



Band 4_LTE_1.4MHz_Nss1,16QAM_1TX

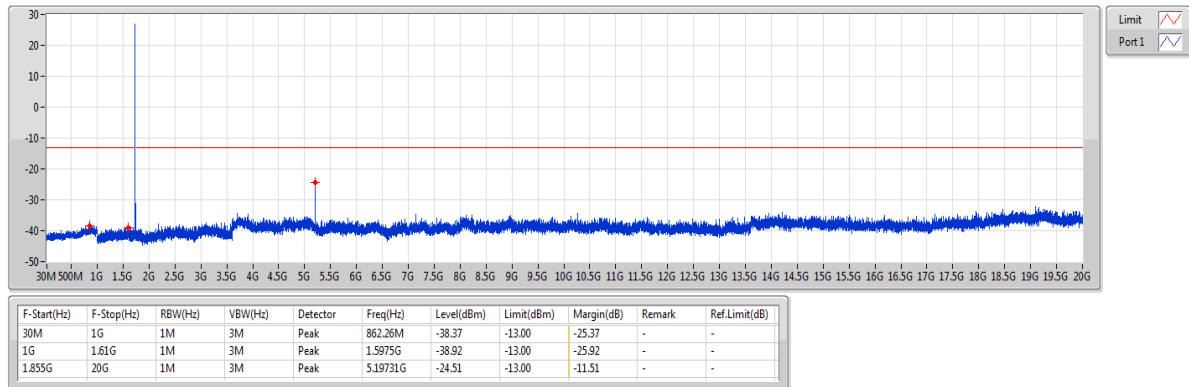
CSE-TX-Sum

1710.7MHz_16QAM_RB 1,#RB 3



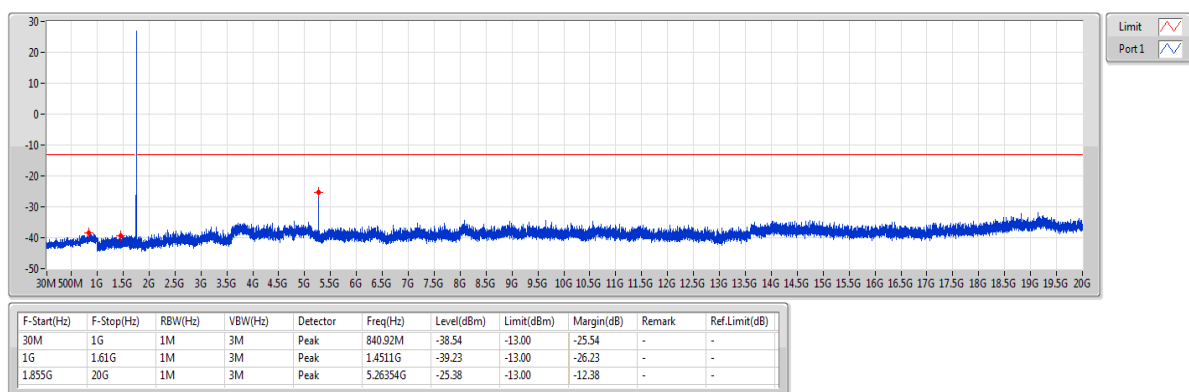
Band 4_LTE_1.4MHz_Nss1,16QAM_1TX
1732.5MHz_16QAM_RB 1,#RB 3

CSE-TX-Sum



Band 4_LTE_1.4MHz_Nss1,16QAM_1TX
1754.3MHz_16QAM_RB 1,#RB 3

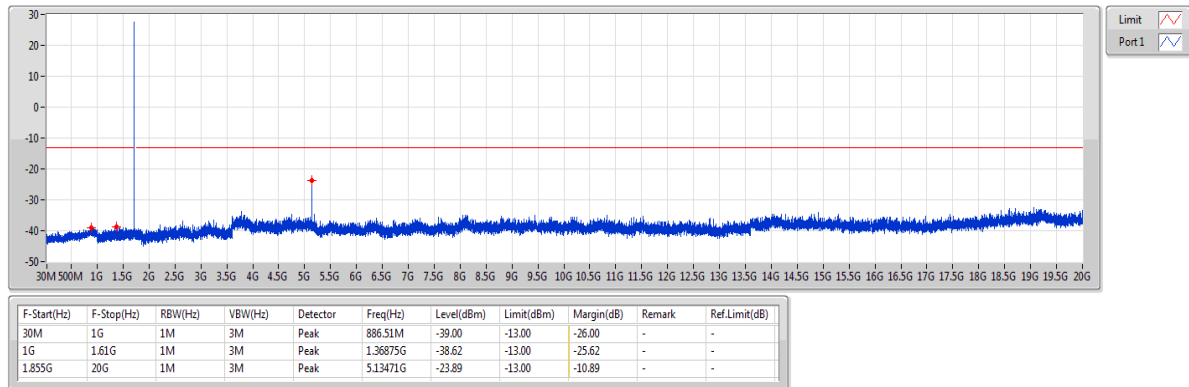
CSE-TX-Sum



Band 4_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Sum

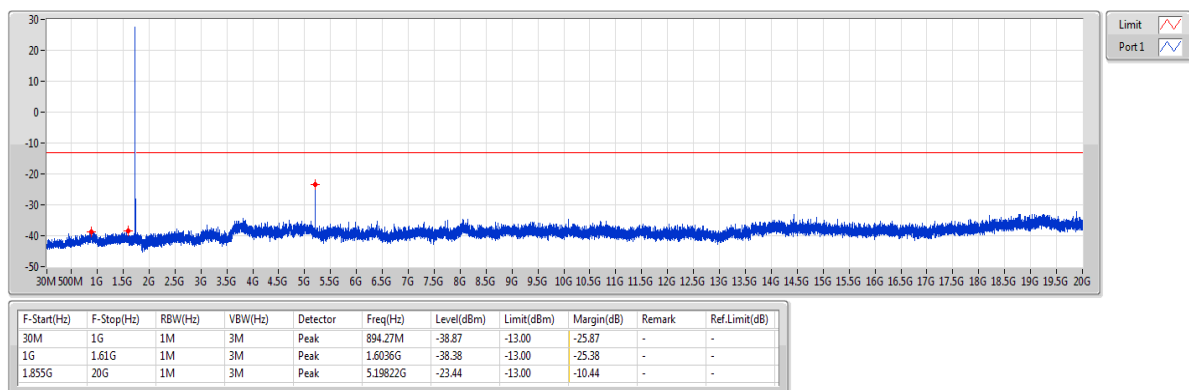
1711.5MHz_QPSK_RB 1,#RB 8



Band 4_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Sum

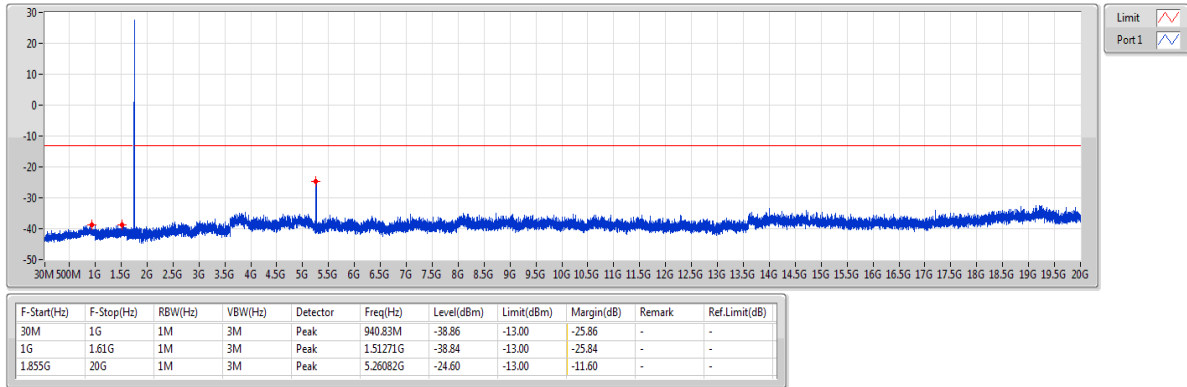
1732.5MHz_QPSK_RB 1,#RB 8



Band 4_LTE_3MHz_Nss1,QPSK_1TX

CSE-TX-Sum

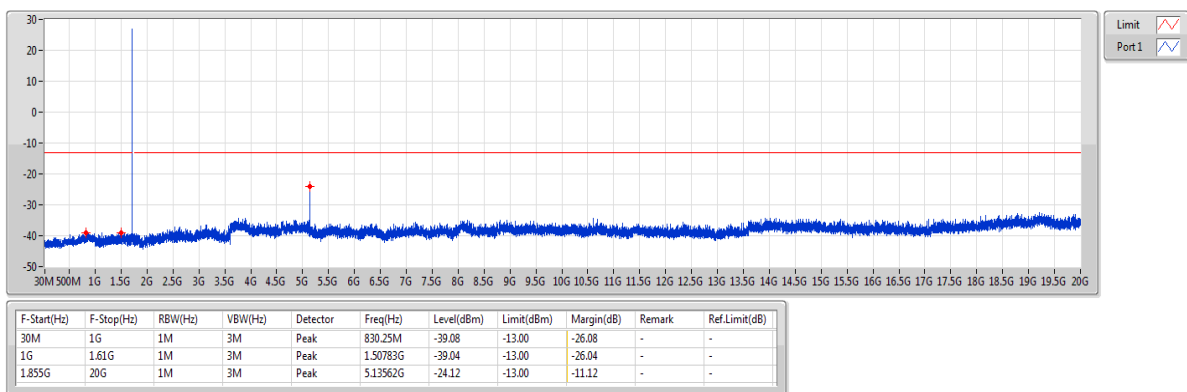
1753.5MHz_QPSK_RB 1,#RB 8



Band 4_LTE_3MHz_Nss1,16QAM_1TX

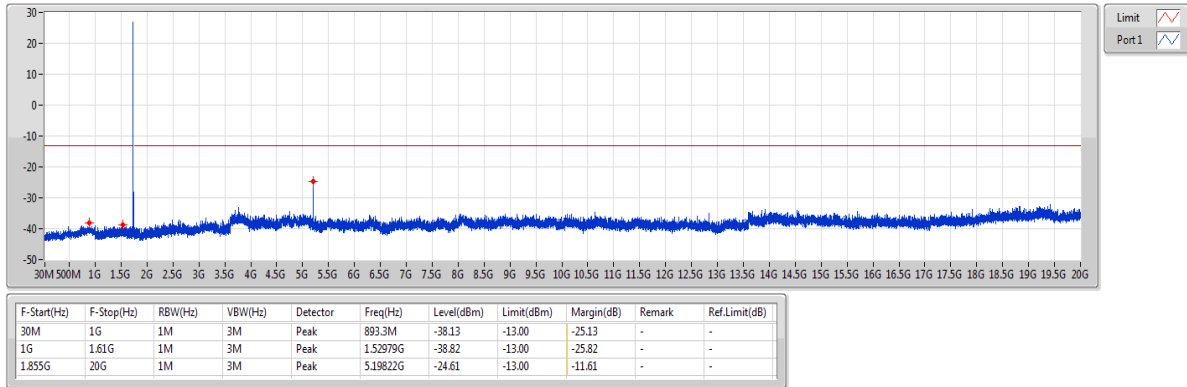
CSE-TX-Sum

1711.5MHz_16QAM_RB 1,#RB 8



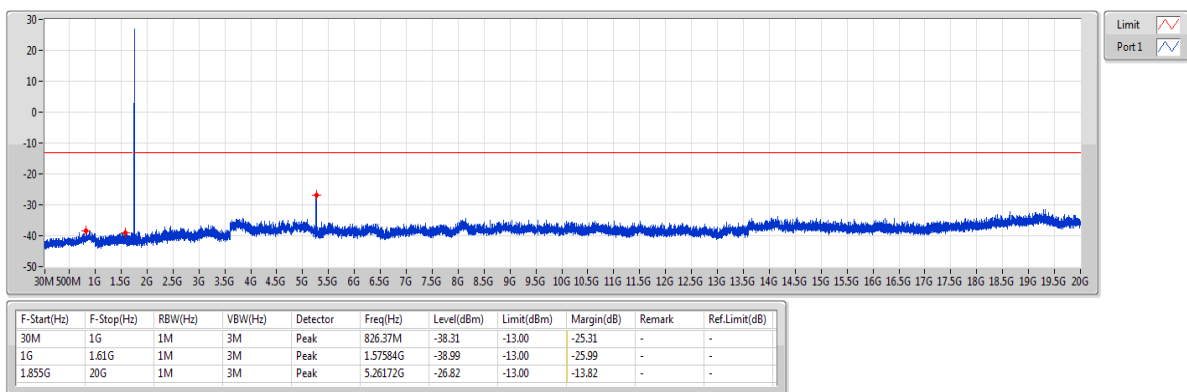
Band 4_LTE_3MHz_Nss1,16QAM_1TX
1732.5MHz_16QAM_RB 1,#RB 8

CSE-TX-Sum



Band 4_LTE_3MHz_Nss1,16QAM_1TX
1753.5MHz_16QAM_RB 1,#RB 8

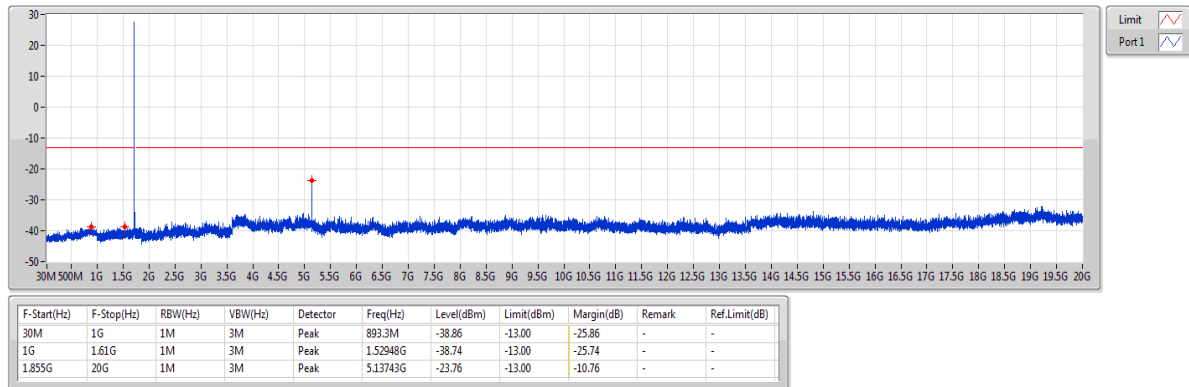
CSE-TX-Sum



Band 4_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

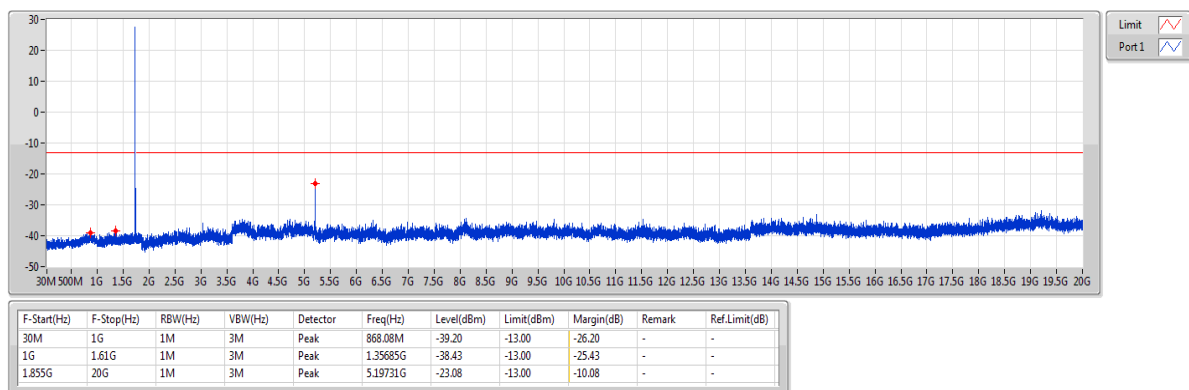
1712.5MHz_QPSK_RB 1,#RB 12



Band 4_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

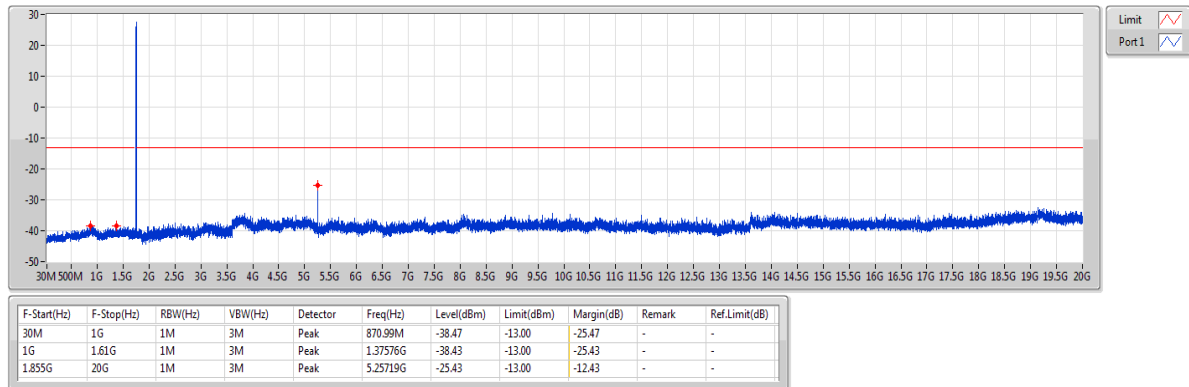
1732.5MHz_QPSK_RB 1,#RB 12



Band 4_LTE_5MHz_Nss1,QPSK_1TX

CSE-TX-Sum

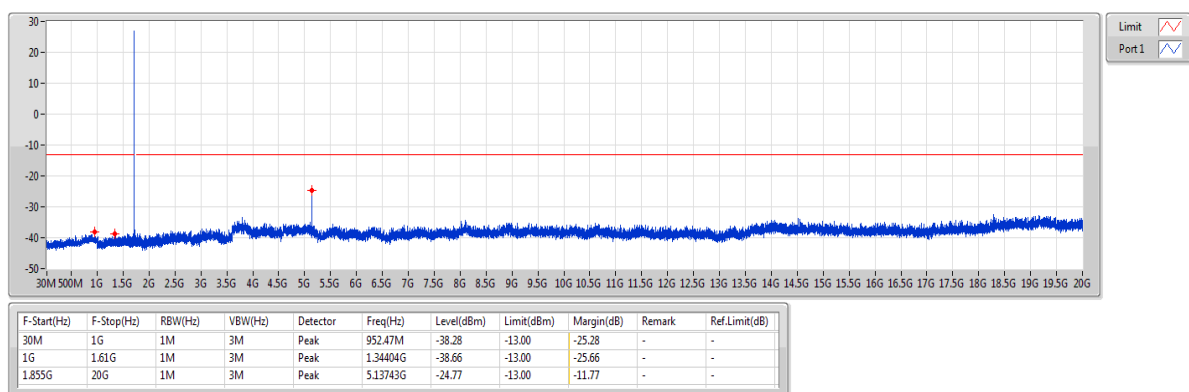
1752.5MHz_QPSK_RB 1,#RB 12



Band 4_LTE_5MHz_Nss1,16QAM_1TX

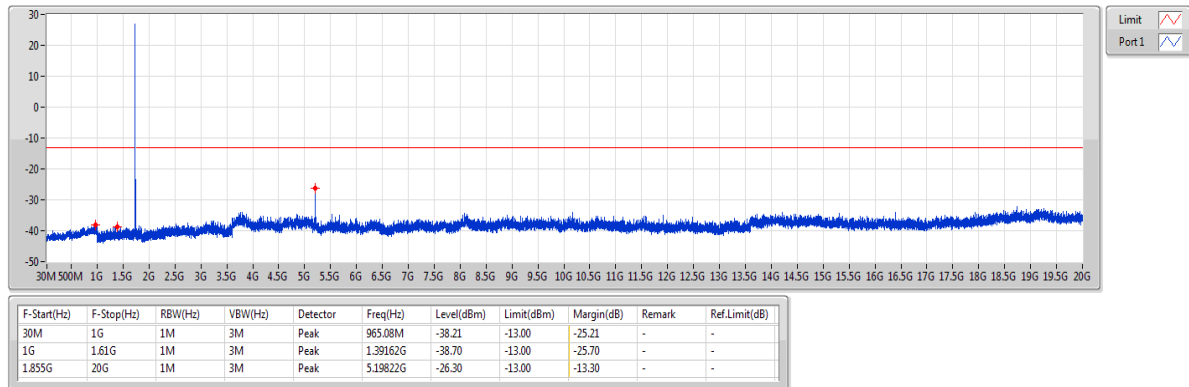
CSE-TX-Sum

1712.5MHz_16QAM_RB 1,#RB 12



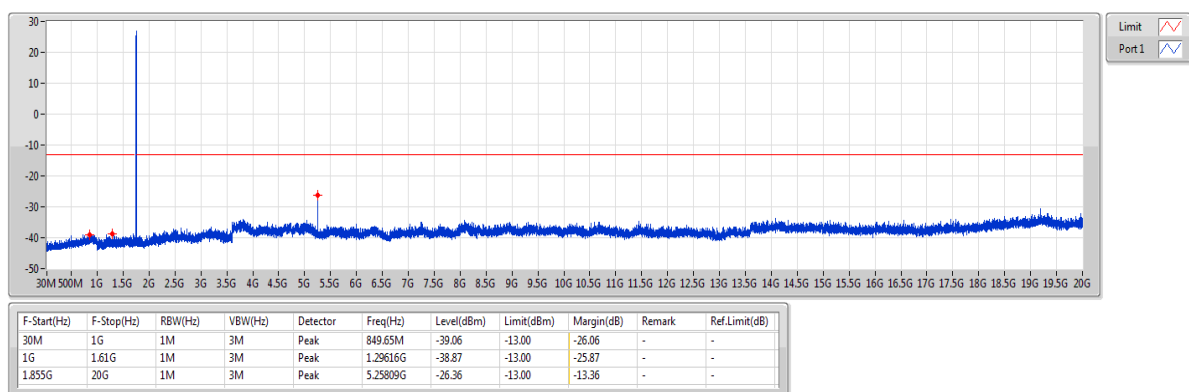
Band 4_LTE_5MHz_Nss1,16QAM_1TX
1732.5MHz_16QAM_RB 1,#RB 12

CSE-TX-Sum



Band 4_LTE_5MHz_Nss1,16QAM_1TX
1752.5MHz_16QAM_RB 1,#RB 12

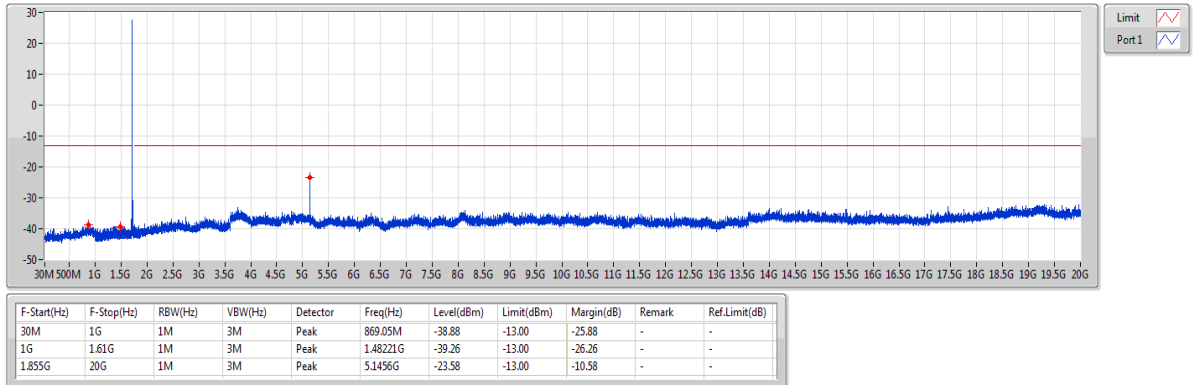
CSE-TX-Sum



Band 4_LTE_10MHz_Nss1,QPSK_1TX

CSE-TX-Sum

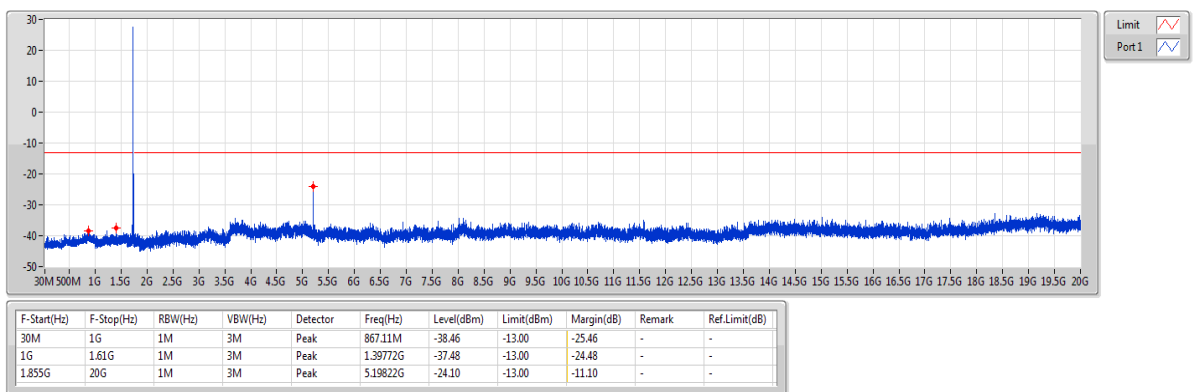
1715MHz_QPSK_RB 1,#RB 25



Band 4_LTE_10MHz_Nss1,QPSK_1TX

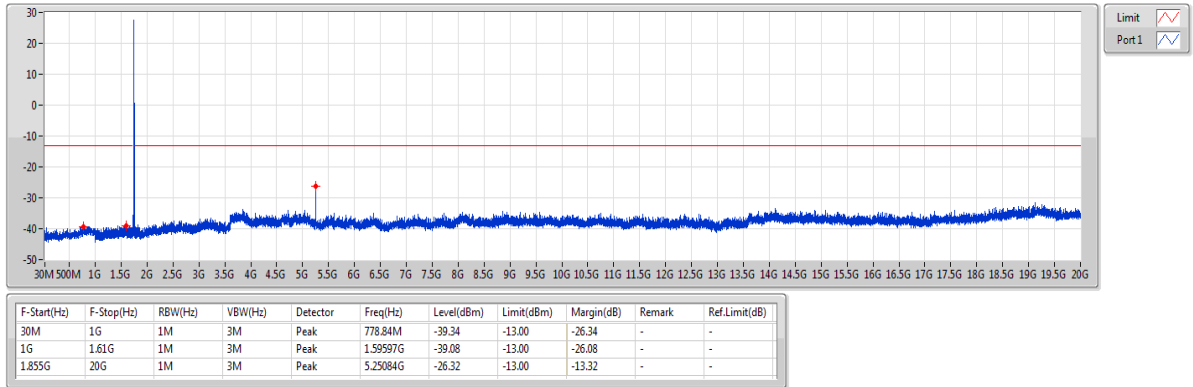
CSE-TX-Sum

1732.5MHz_QPSK_RB 1,#RB 25



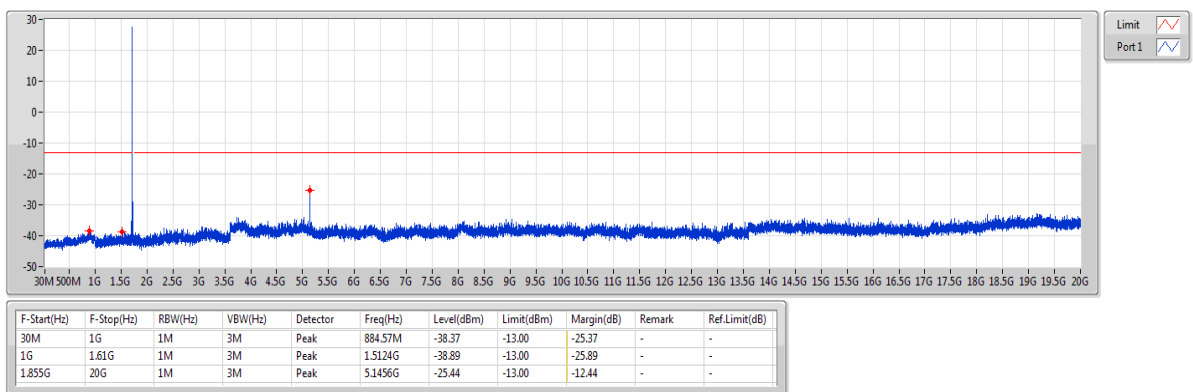
Band 4_LTE_10MHz_Nss1,QPSK_1TX
1750MHz_QPSK_RB 1,#RB 25

CSE-TX-Sum



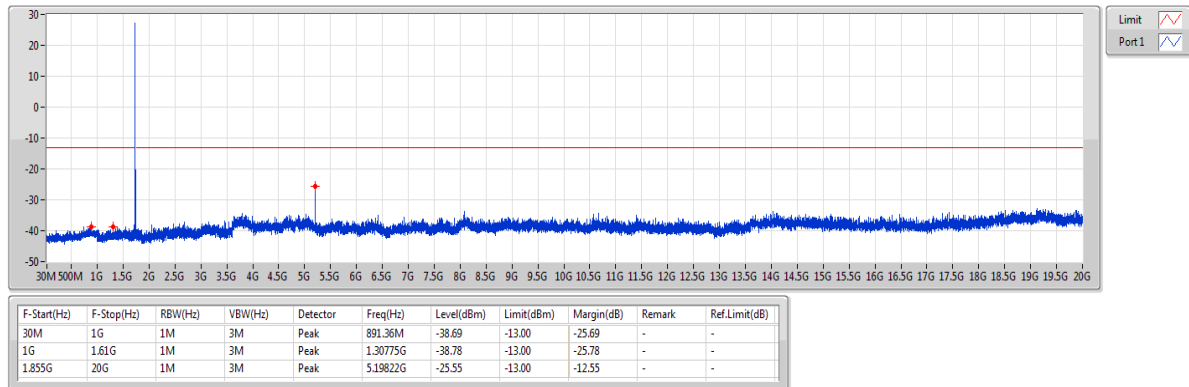
Band 4_LTE_10MHz_Nss1,16QAM_1TX
1715MHz_16QAM_RB 1,#RB 25

CSE-TX-Sum



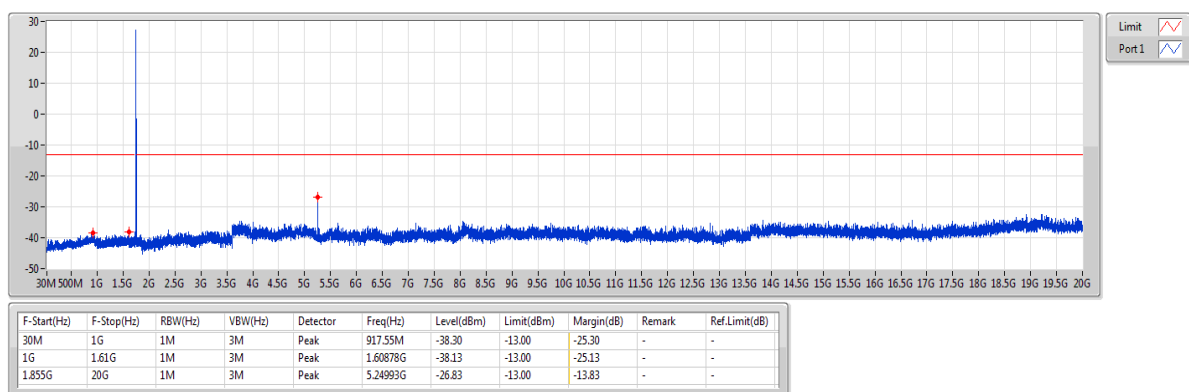
Band 4_LTE_10MHz_Nss1,16QAM_1TX
1732.5MHz_16QAM_RB 1,#RB 25

CSE-TX-Sum



Band 4_LTE_10MHz_Nss1,16QAM_1TX
1750MHz_16QAM_RB 1,#RB 25

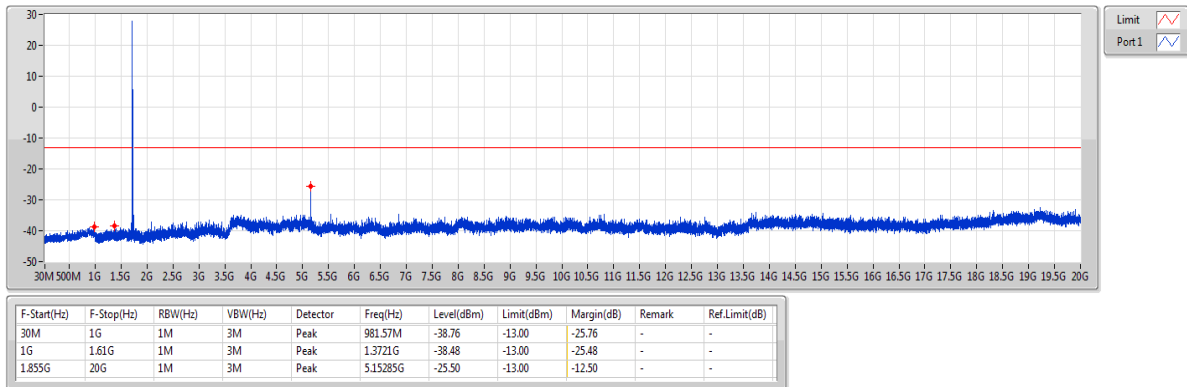
CSE-TX-Sum



Band 4_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

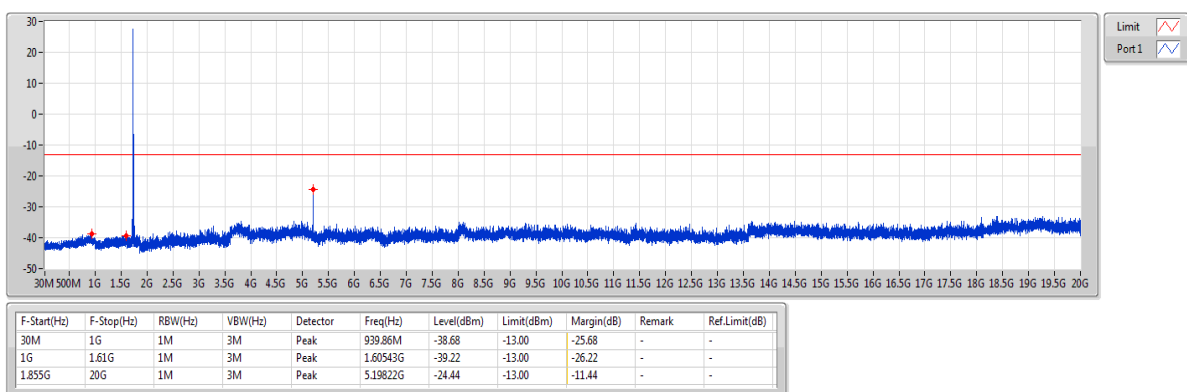
1717.5MHz_QPSK_RB 1,#RB 37



Band 4_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

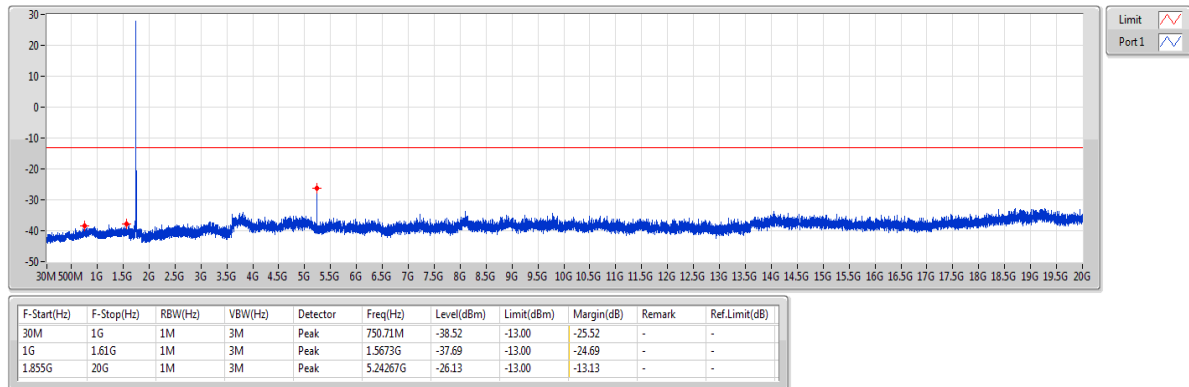
1732.5MHz_QPSK_RB 1,#RB 37



Band 4_LTE_15MHz_Nss1,QPSK_1TX

CSE-TX-Sum

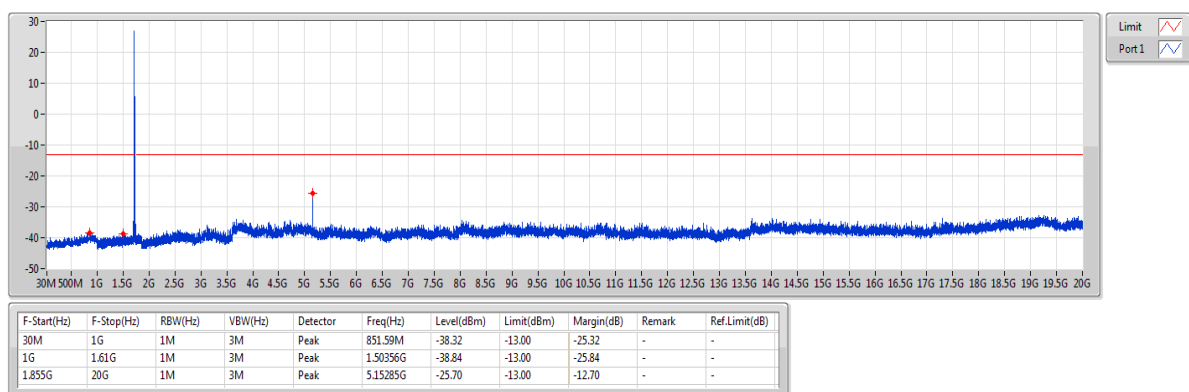
1747.5MHz_QPSK_RB 1,#RB 37



Band 4_LTE_15MHz_Nss1,16QAM_1TX

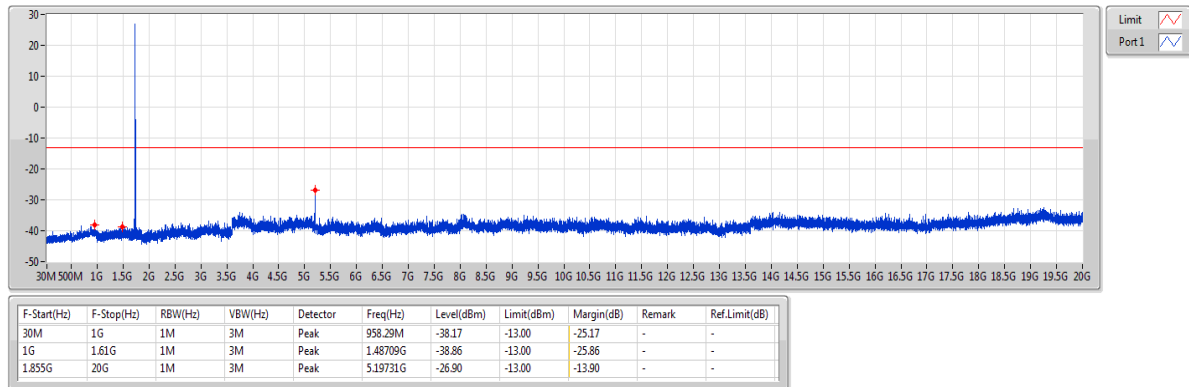
CSE-TX-Sum

1717.5MHz_16QAM_RB 1,#RB 37



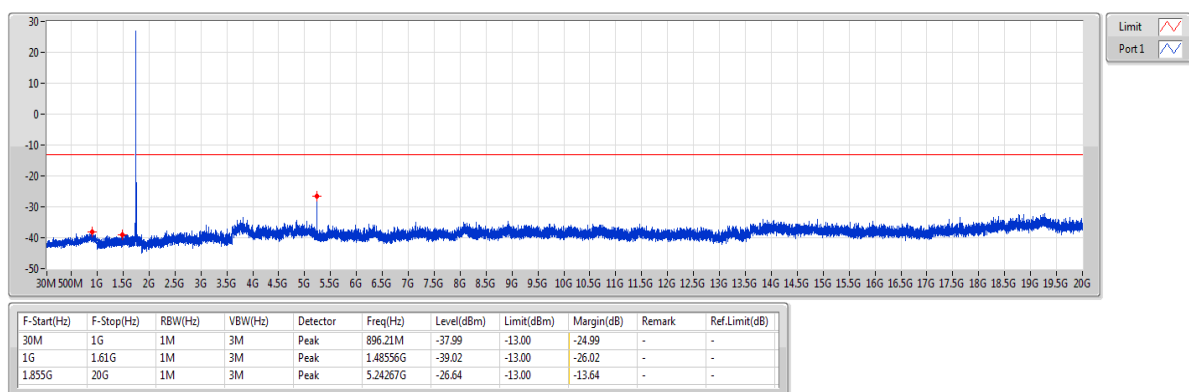
Band 4_LTE_15MHz_Nss1,16QAM_1TX
1732.5MHz_16QAM_RB 1,#RB 37

CSE-TX-Sum



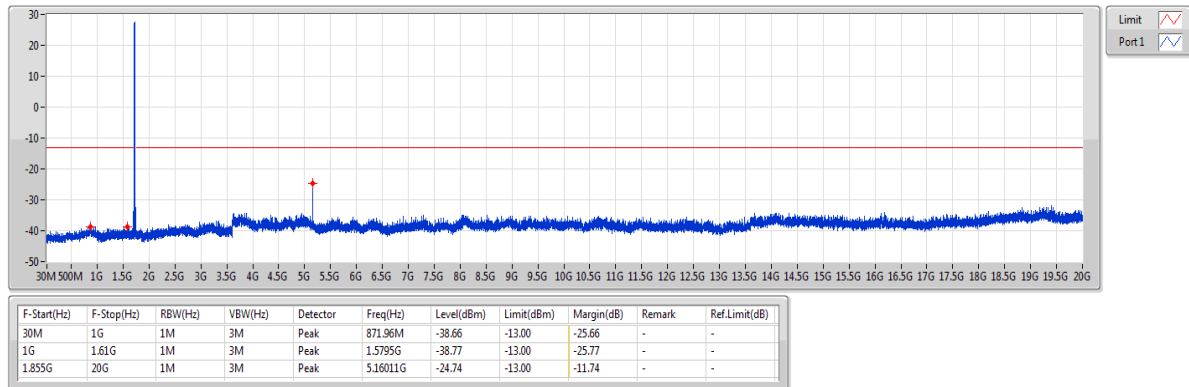
Band 4_LTE_15MHz_Nss1,16QAM_1TX
1747.5MHz_16QAM_RB 1,#RB 37

CSE-TX-Sum



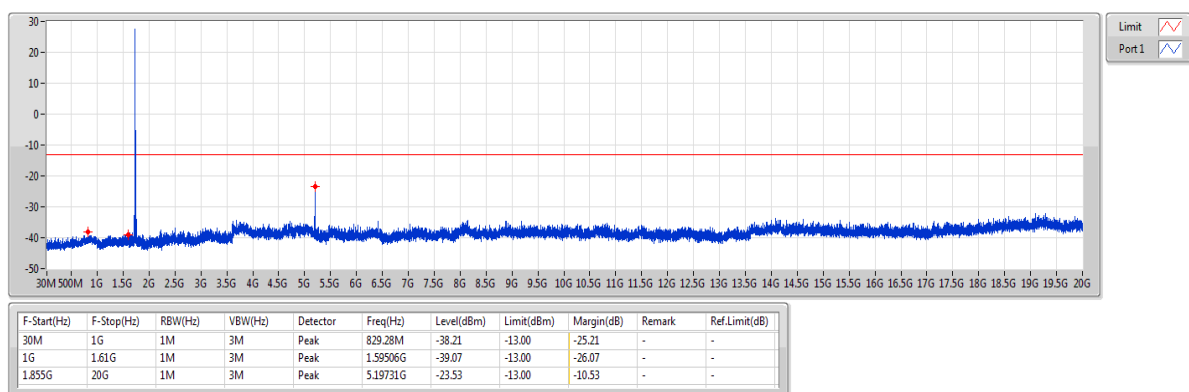
Band 4_LTE_20MHz_Nss1,QPSK_1TX
1720MHz_QPSK_RB 1,#RB 49

CSE-TX-Sum



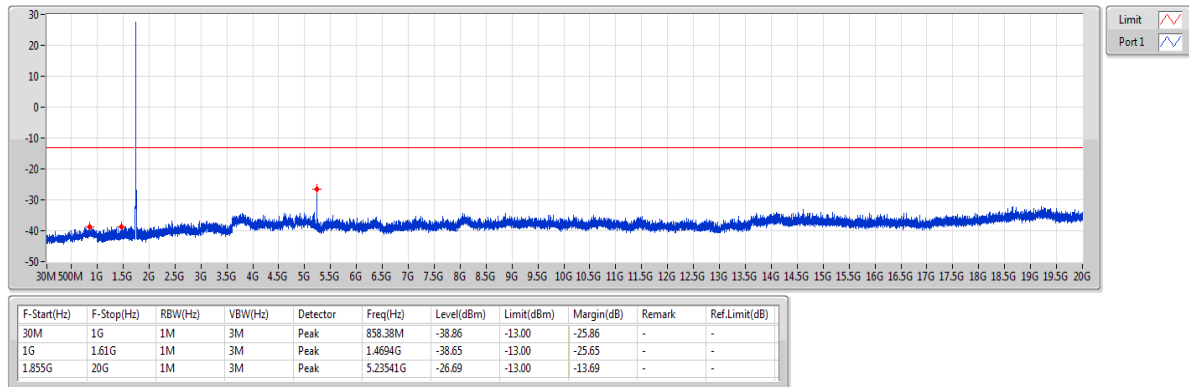
Band 4_LTE_20MHz_Nss1,QPSK_1TX
1732.5MHz_QPSK_RB 1,#RB 49

CSE-TX-Sum



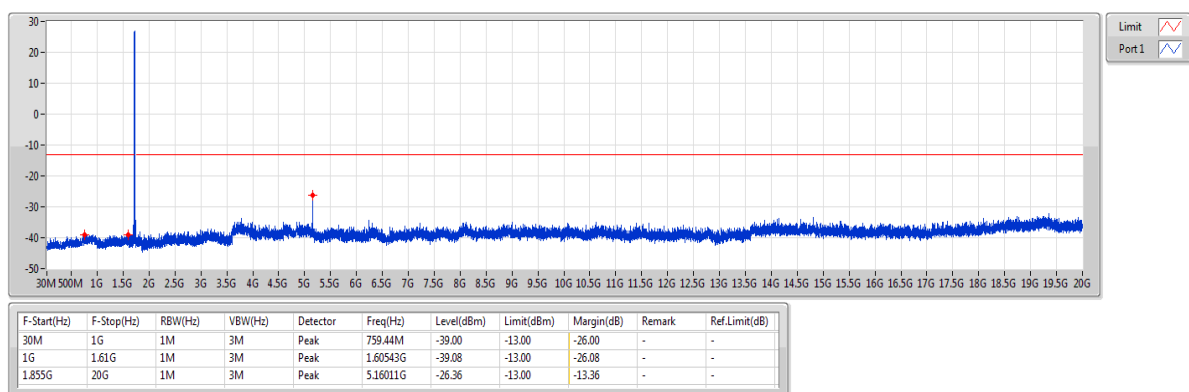
Band 4_LTE_20MHz_Nss1,QPSK_1TX
1745MHz_QPSK_RB 1,#RB 49

CSE-TX-Sum



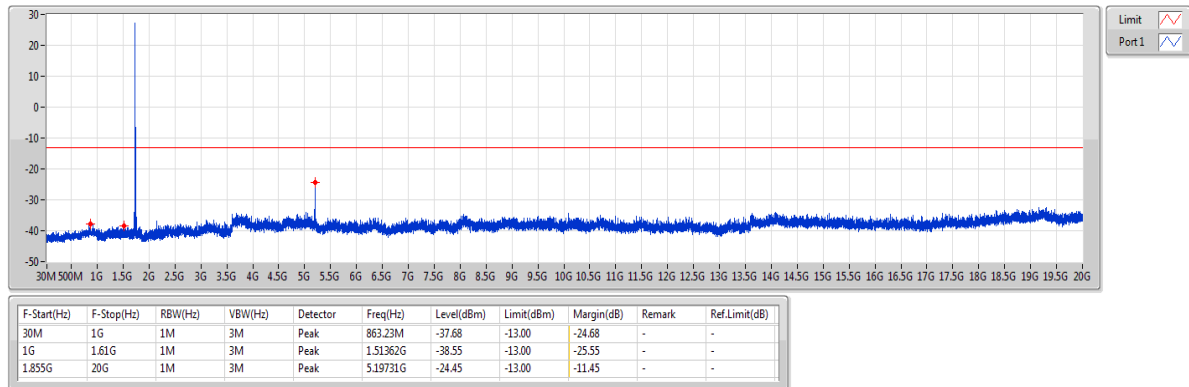
Band 4_LTE_20MHz_Nss1,16QAM_1TX
1720MHz_16QAM_RB 1,#RB 49

CSE-TX-Sum



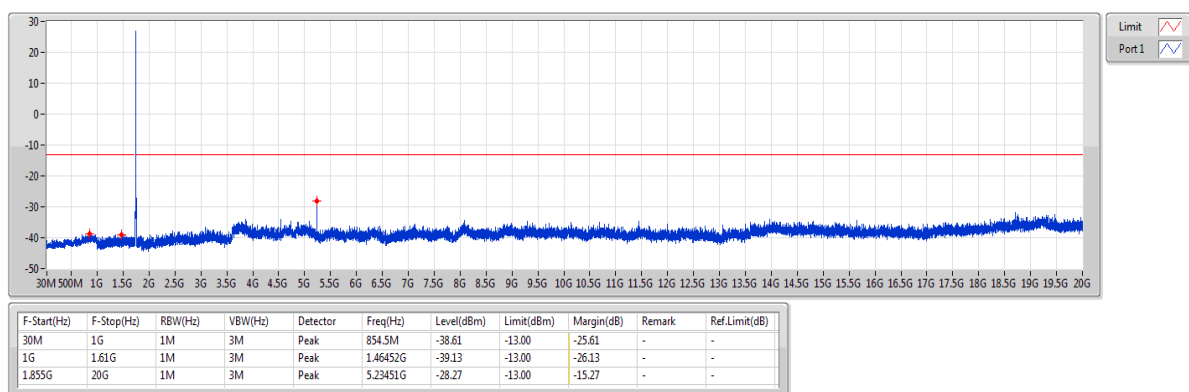
Band 4_LTE_20MHz_Nss1,16QAM_1TX
1732.5MHz_16QAM_RB 1,#RB 49

CSE-TX-Sum



Band 4_LTE_20MHz_Nss1,16QAM_1TX
1745MHz_16QAM_RB 1,#RB 49

CSE-TX-Sum



3.4 Band Edge

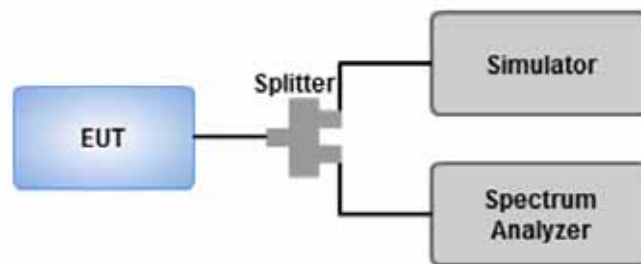
3.4.1 Limit of Band Edge

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.

3.4.2 Test Procedures

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.

3.4.3 Test Setup



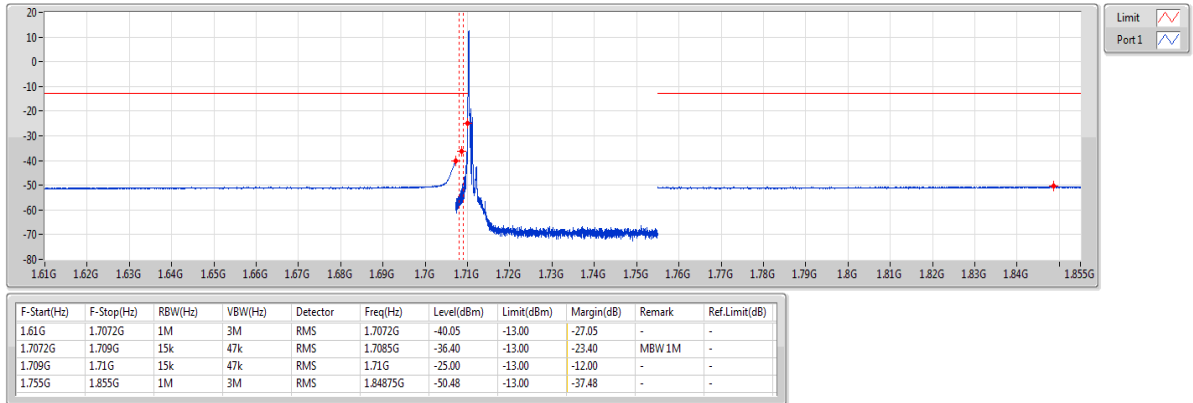
3.4.4 Test Result of Band Edge

Summary

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	VBW (Hz)	Detector	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Remark	Ref.Limit (dB)
Band 4	-	-	-	-	-	-	-	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	1.709G	1.71G	15k	47k	RMS	1.71G	-25.00	-13.00	-12.00	-	-
LTE_1.4MHz_Nss1,16QAM_1TX	Pass	1.755G	1.756G	15k	47k	RMS	1.75502G	-23.24	-13.00	-10.24	-	-
LTE_3MHz_Nss1,QPSK_1TX	Pass	1.755G	1.756G	30k	100k	RMS	1.755G	-19.65	-13.00	-6.65	-	-
LTE_3MHz_Nss1,16QAM_1TX	Pass	1.755G	1.756G	30k	100k	RMS	1.755G	-21.34	-13.00	-8.34	-	-
LTE_5MHz_Nss1,QPSK_1TX	Pass	1.755G	1.756G	51k	160k	RMS	1.755G	-21.08	-13.00	-8.08	-	-
LTE_5MHz_Nss1,16QAM_1TX	Pass	1.755G	1.756G	51k	160k	RMS	1.755G	-21.12	-13.00	-8.12	-	-
LTE_10MHz_Nss1,QPSK_1TX	Pass	1.69G	1.709G	100k	300k	RMS	1.7085G	-23.80	-13.00	-10.80	MBW 1M	-
LTE_10MHz_Nss1,16QAM_1TX	Pass	1.69G	1.709G	100k	300k	RMS	1.7085G	-24.87	-13.00	-11.87	MBW 1M	-
LTE_15MHz_Nss1,QPSK_1TX	Pass	1.68G	1.709G	150k	470k	RMS	1.7085G	-23.80	-13.00	-10.80	MBW 1M	-
LTE_15MHz_Nss1,16QAM_1TX	Pass	1.68G	1.709G	150k	470k	RMS	1.7085G	-25.57	-13.00	-12.57	MBW 1M	-
LTE_20MHz_Nss1,QPSK_1TX	Pass	1.756G	1.795G	200k	620k	RMS	1.7565G	-24.65	-13.00	-11.65	MBW 1M	-
LTE_20MHz_Nss1,16QAM_1TX	Pass	1.67G	1.709G	200k	620k	RMS	1.7085G	-26.66	-13.00	-13.66	MBW 1M	-

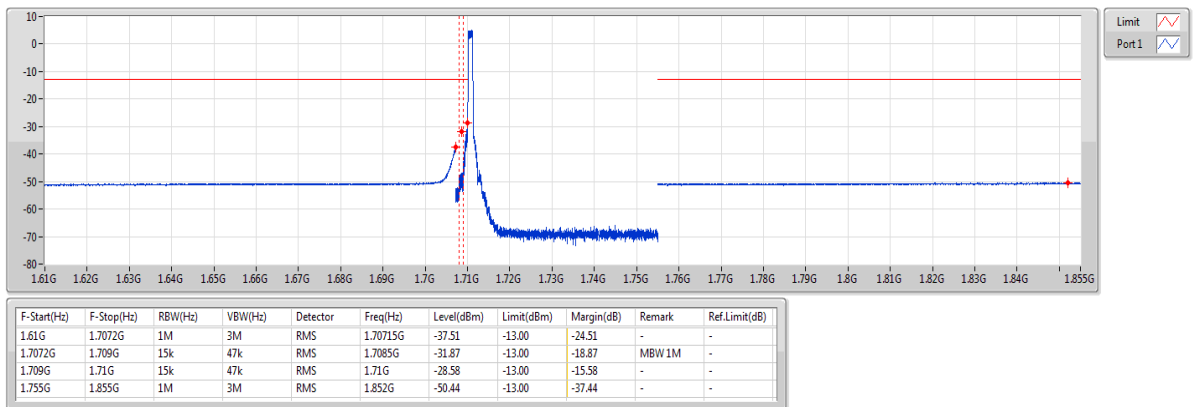
Band 4_LTE_1.4MHz_Nss1,QPSK_1TX
1710.7MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



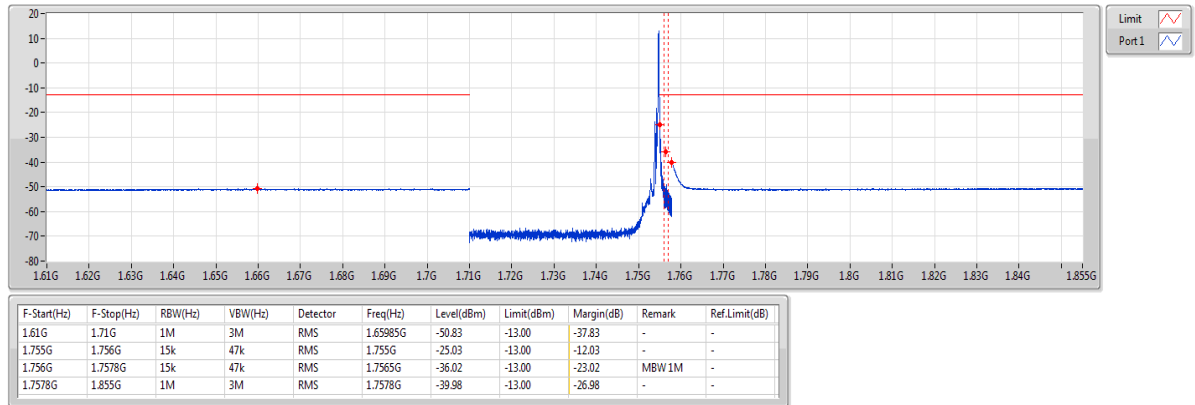
Band 4_LTE_1.4MHz_Nss1,QPSK_1TX
1710.7MHz_QPSK_RB 6,#RB 0

CSE-TX-Sum



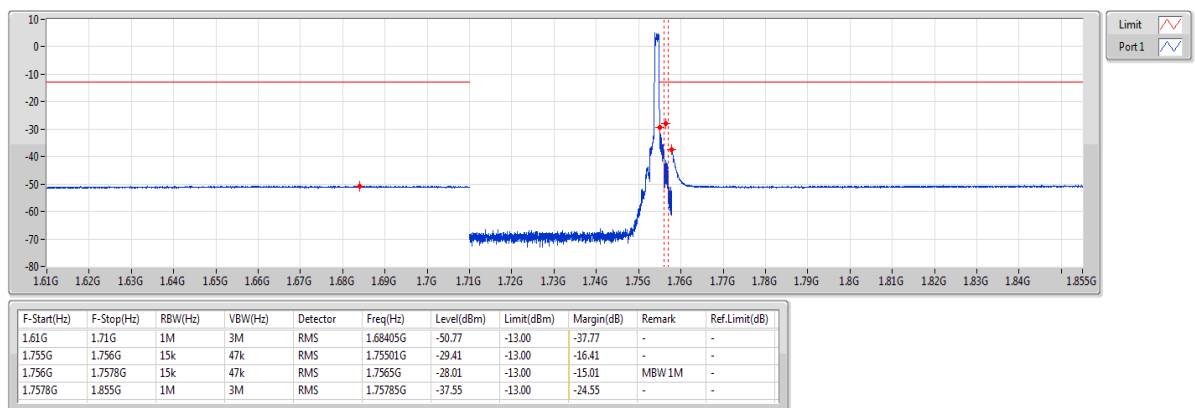
Band 4 LTE_1.4MHz_Nss1,QPSK_1TX
1754.3MHz_QPSK_RB 1,#RB 5

CSE-TX-Sum



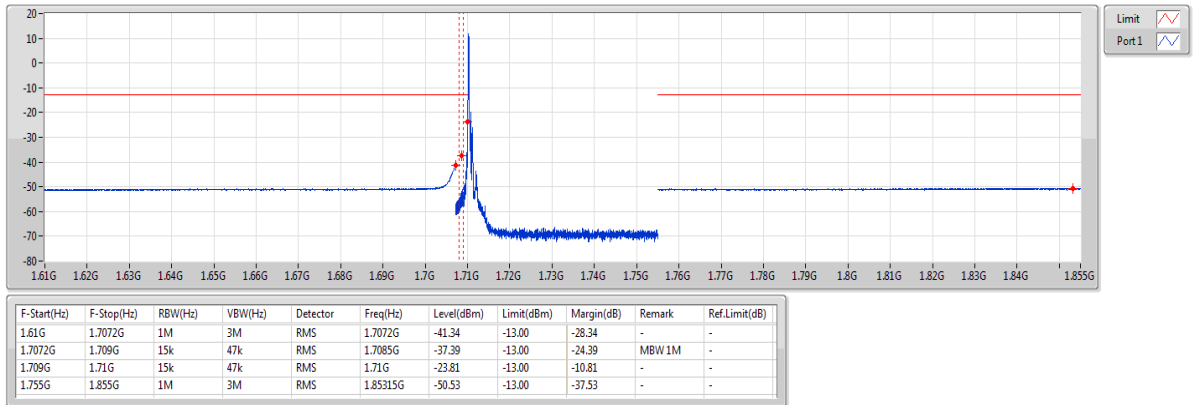
Band 4 LTE_1.4MHz_Nss1,QPSK_1TX
1754.3MHz_QPSK_RB 6,#RB 0

CSE-TX-Sum



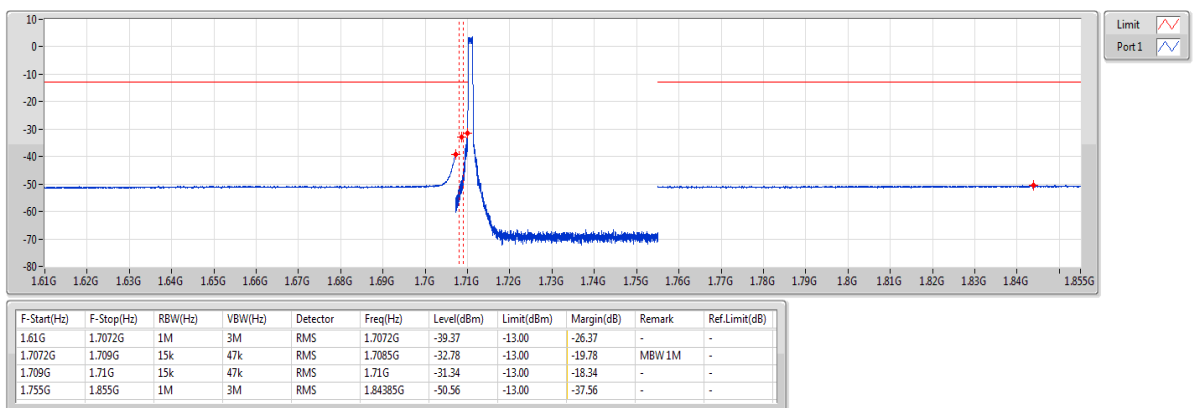
Band 4 LTE_1.4MHz_Nss1,16QAM_1TX
1710.7MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



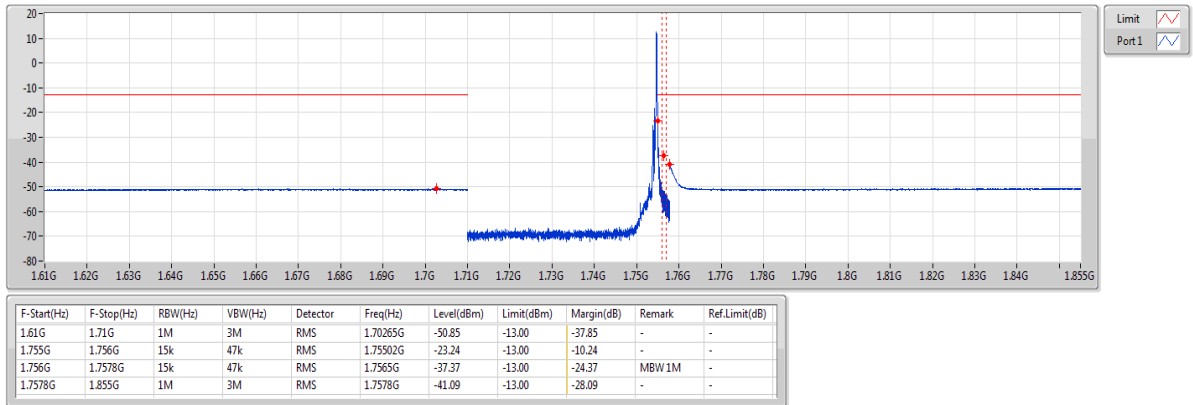
Band 4 LTE_1.4MHz_Nss1,16QAM_1TX
1710.7MHz_16QAM_RB 6,#RB 0

CSE-TX-Sum



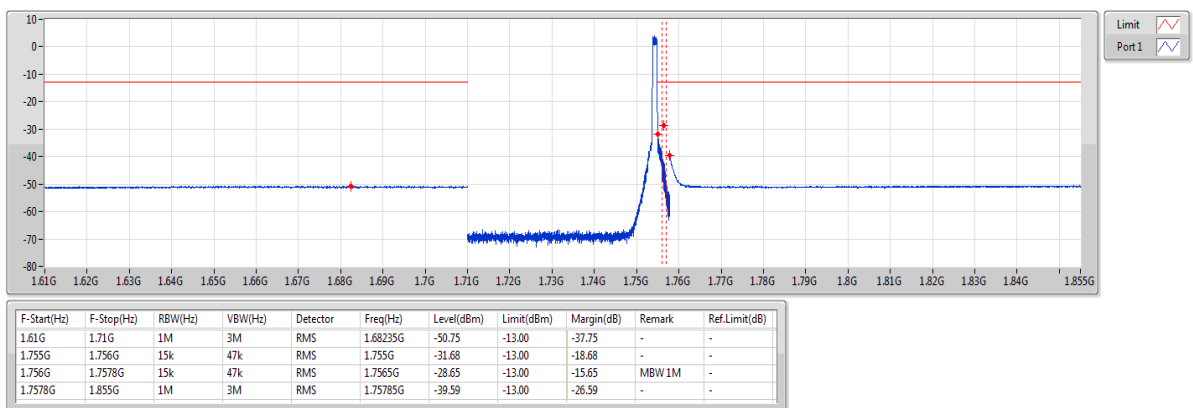
Band 4 LTE_1.4MHz_Nss1,16QAM_1TX
1754.3MHz_16QAM_RB 1,#RB 5

CSE-TX-Sum



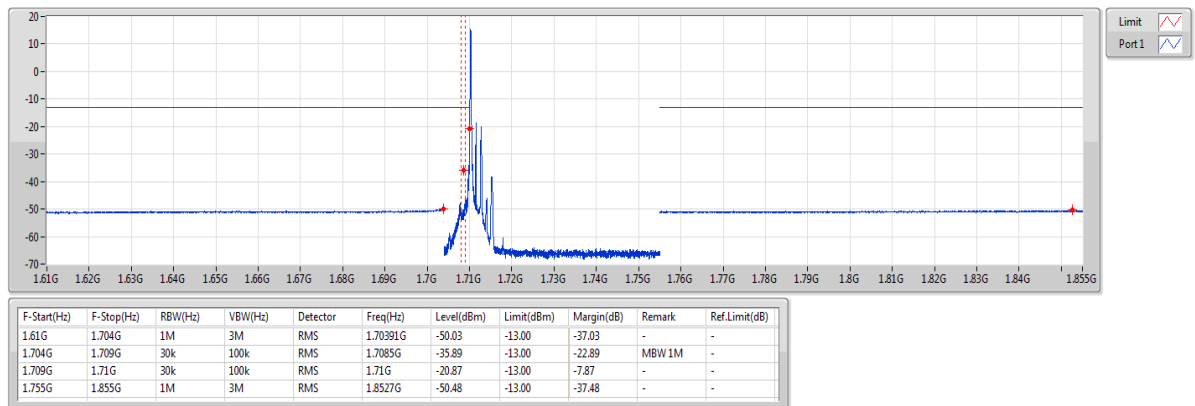
Band 4 LTE_1.4MHz_Nss1,16QAM_1TX
1754.3MHz_16QAM_RB 6,#RB 0

CSE-TX-Sum



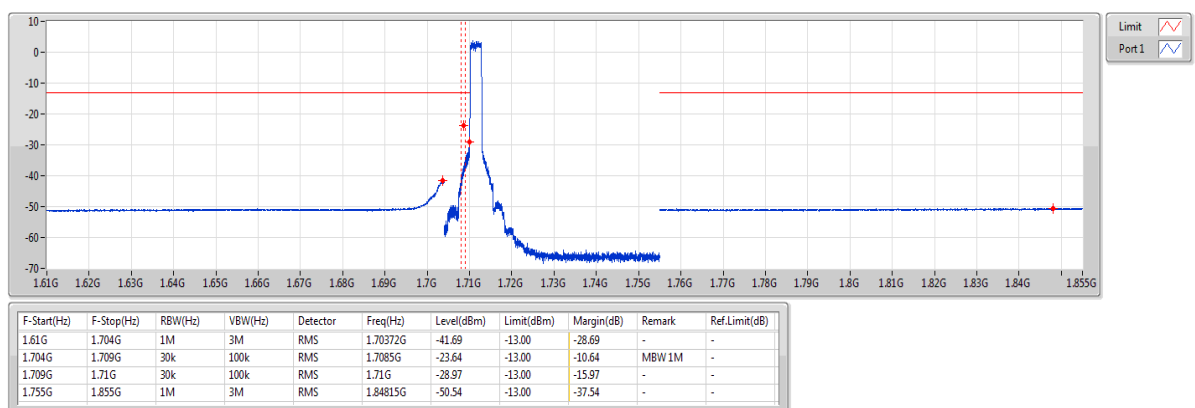
Band 4 LTE_3MHz_Nss1,QPSK_1TX
1711.5MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



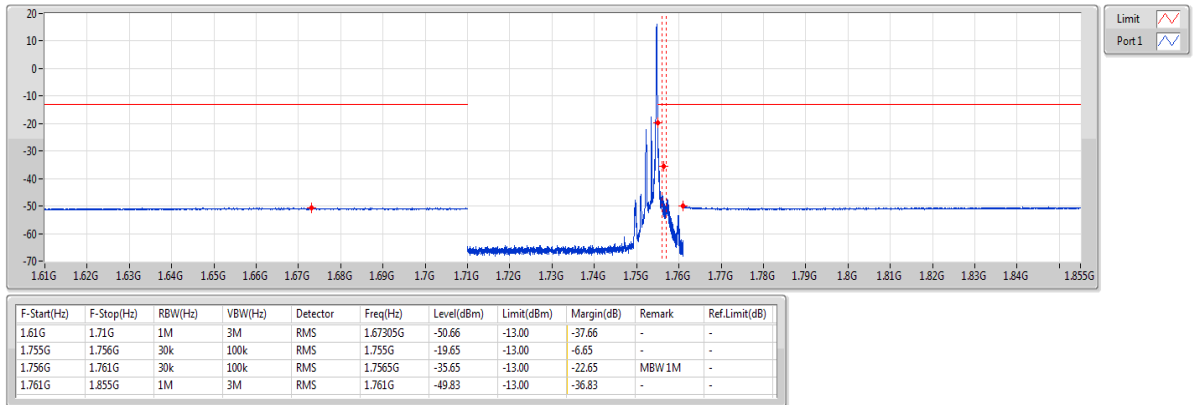
Band 4 LTE_3MHz_Nss1,QPSK_1TX
1711.5MHz_QPSK_RB 15,#RB 0

CSE-TX-Sum



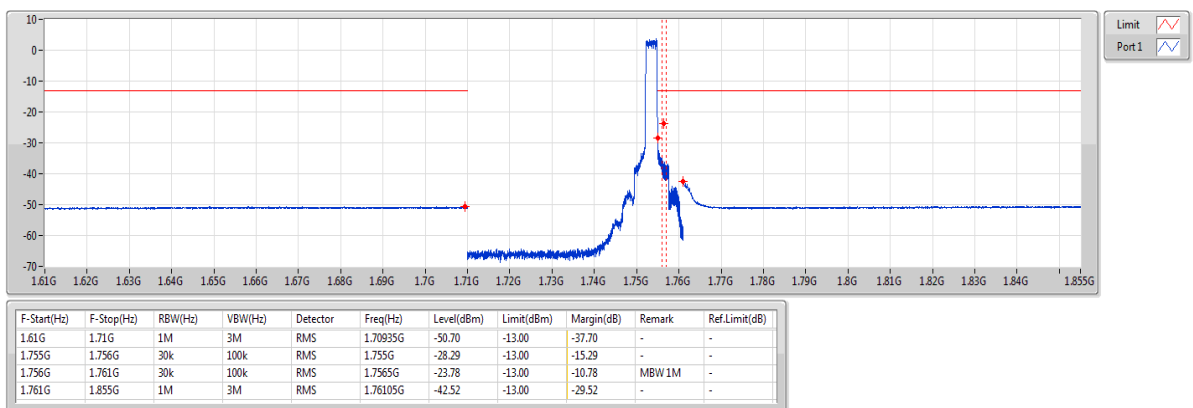
Band 4 LTE_3MHz_Nss1,QPSK_1TX
1753.5MHz_QPSK_RB 1,#RB 14

CSE-TX-Sum



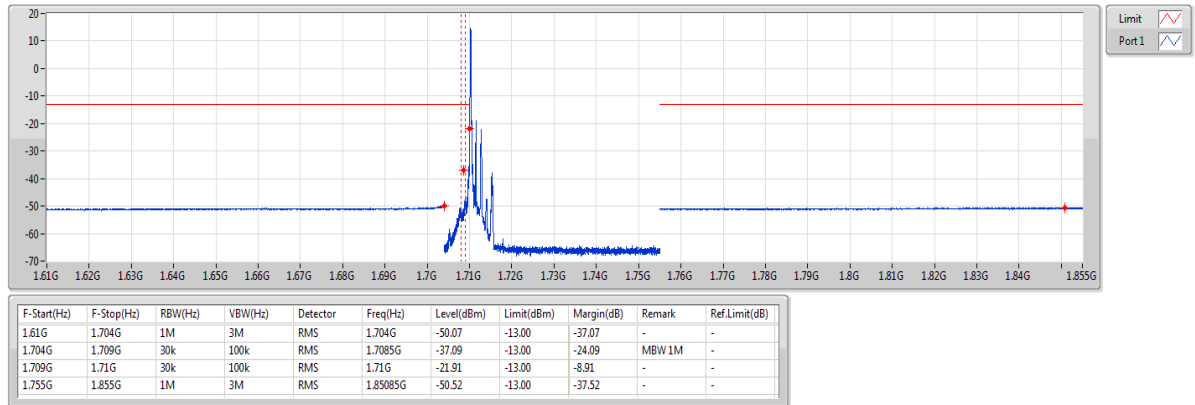
Band 4 LTE_3MHz_Nss1,QPSK_1TX
1753.5MHz_QPSK_RB 15,#RB 0

CSE-TX-Sum



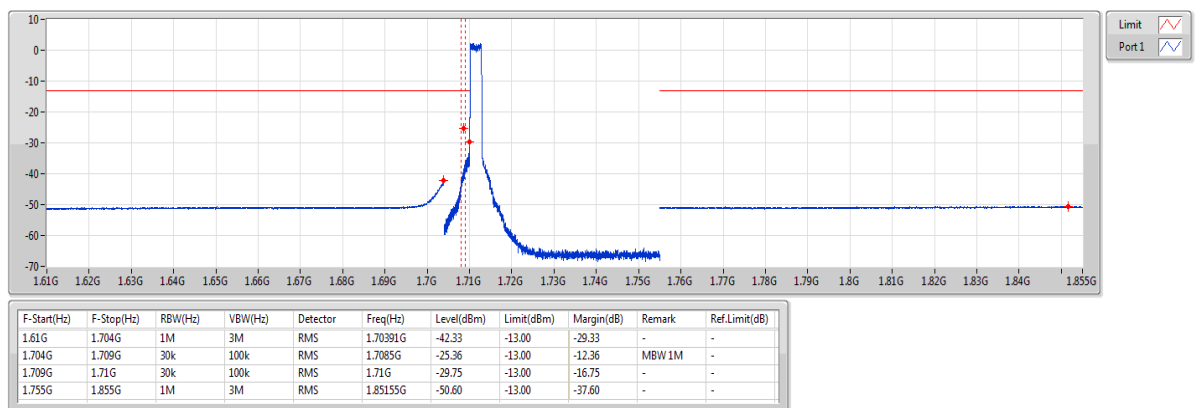
Band 4 LTE_3MHz_Nss1,16QAM_1TX
1711.5MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



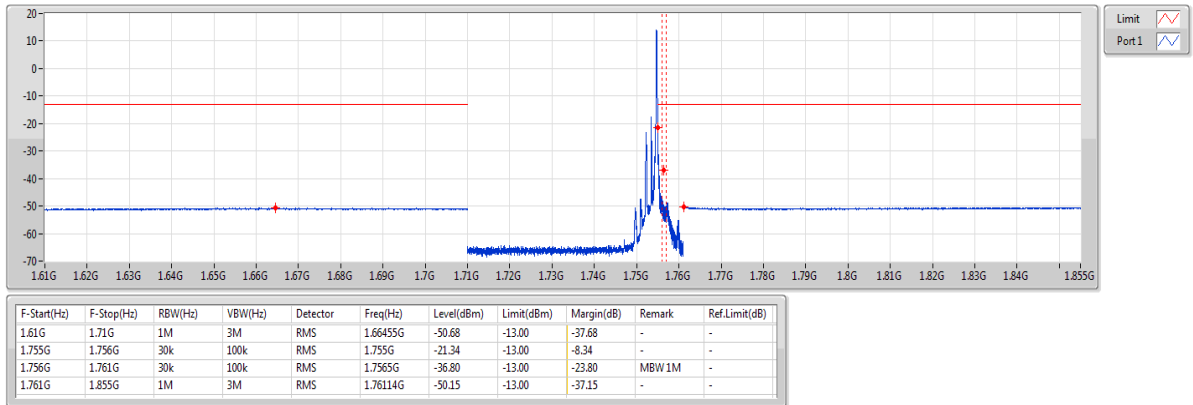
Band 4 LTE_3MHz_Nss1,16QAM_1TX
1711.5MHz_16QAM_RB 15,#RB 0

CSE-TX-Sum



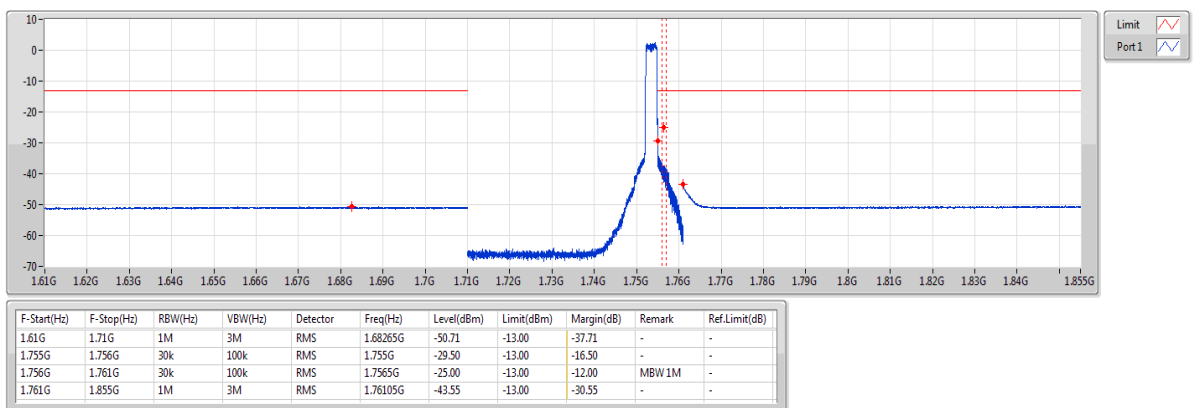
Band 4 LTE_3MHz_Nss1,16QAM_1TX
1753.5MHz_16QAM_RB 1,#RB 14

CSE-TX-Sum



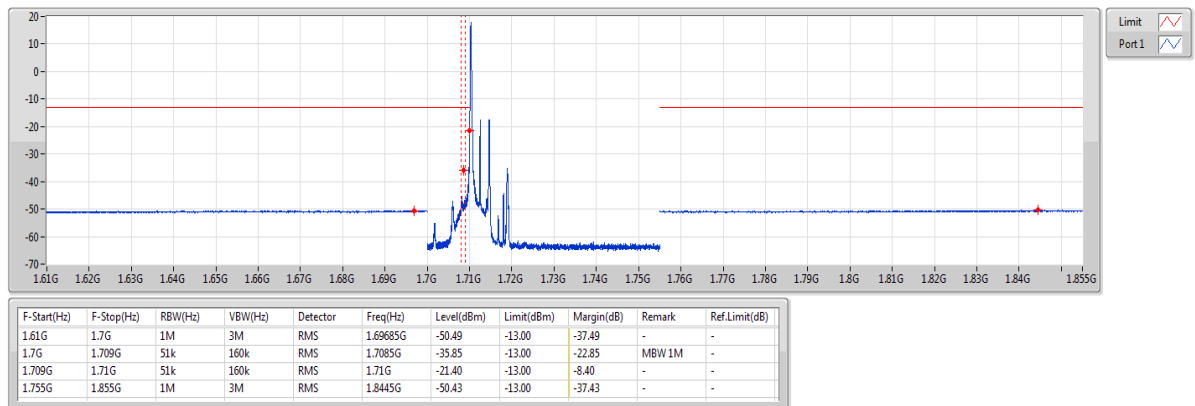
Band 4 LTE_3MHz_Nss1,16QAM_1TX
1753.5MHz_16QAM_RB 15,#RB 0

CSE-TX-Sum



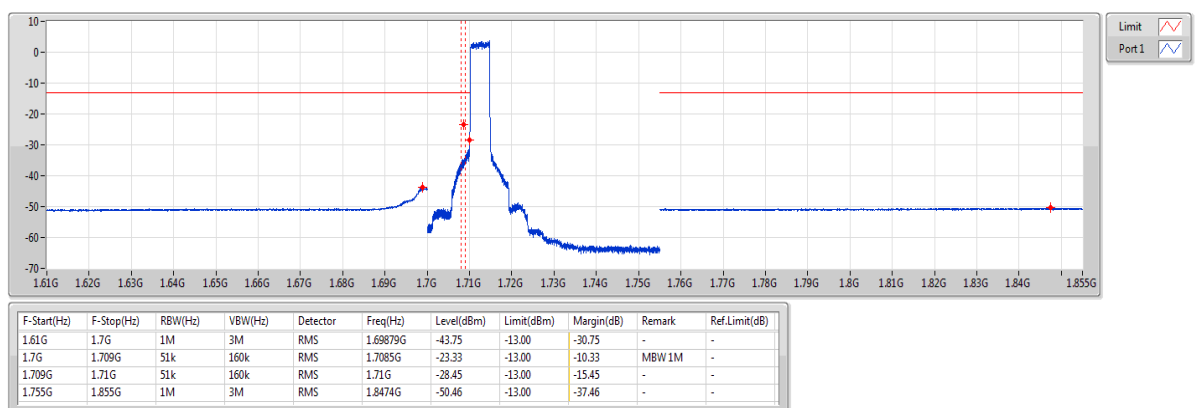
Band 4 LTE_5MHz_Nss1,QPSK_1TX
1712.5MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



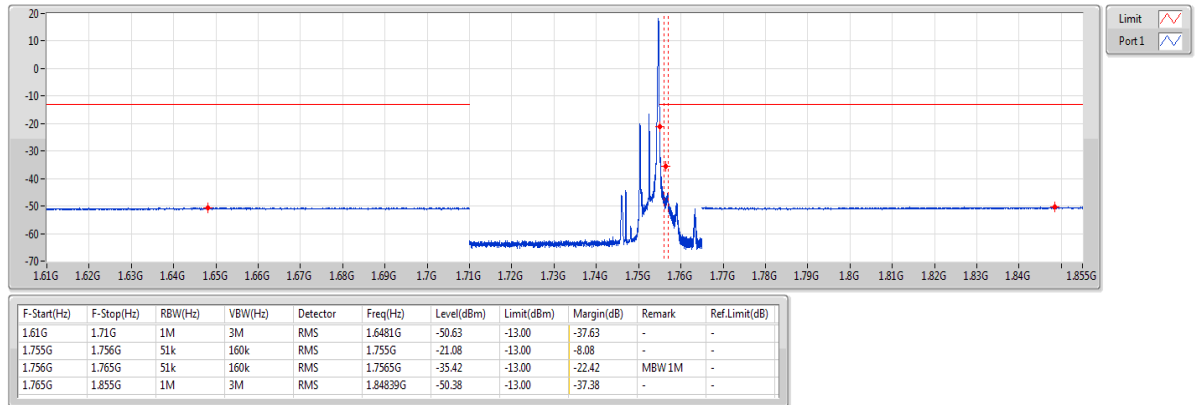
Band 4 LTE_5MHz_Nss1,QPSK_1TX
1712.5MHz_QPSK_RB 25,#RB 0

CSE-TX-Sum



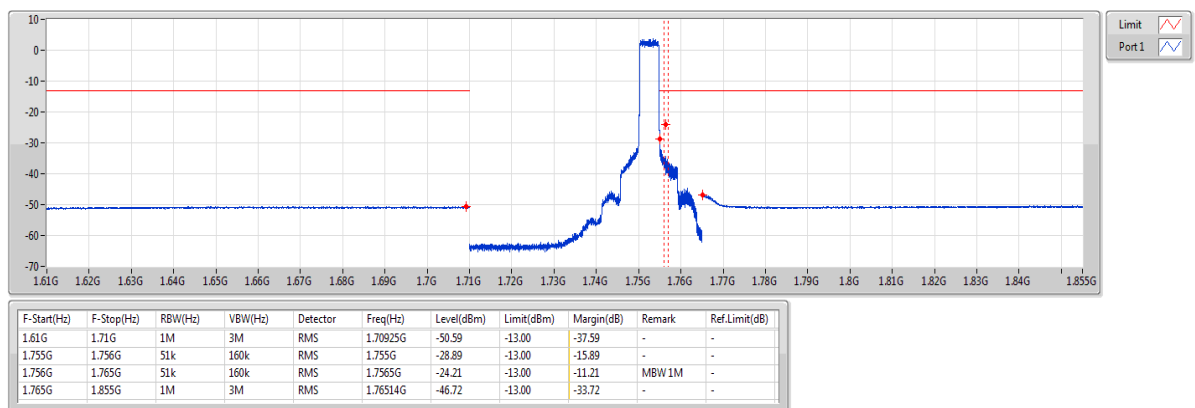
Band 4 LTE_5MHz_Nss1,QPSK_1TX
1752.5MHz_QPSK_RB 1,#RB 24

CSE-TX-Sum



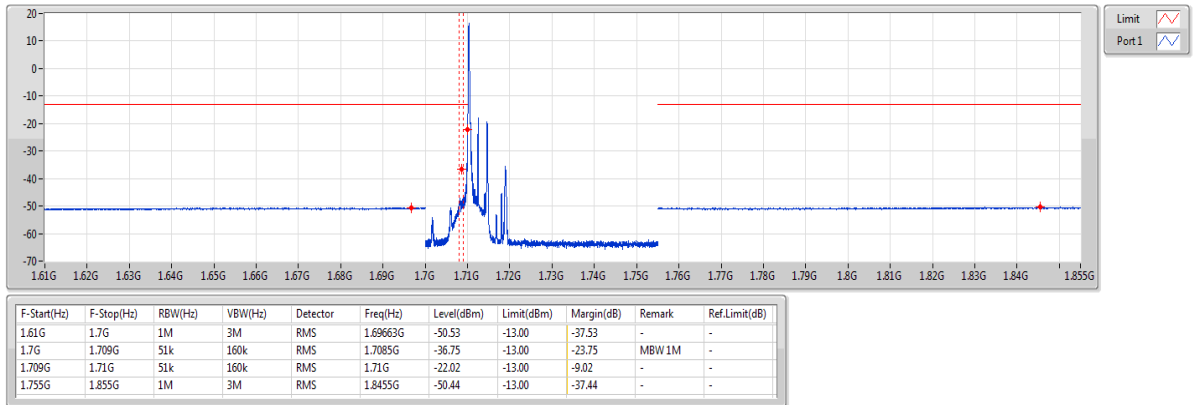
Band 4 LTE_5MHz_Nss1,QPSK_1TX
1752.5MHz_QPSK_RB 25,#RB 0

CSE-TX-Sum



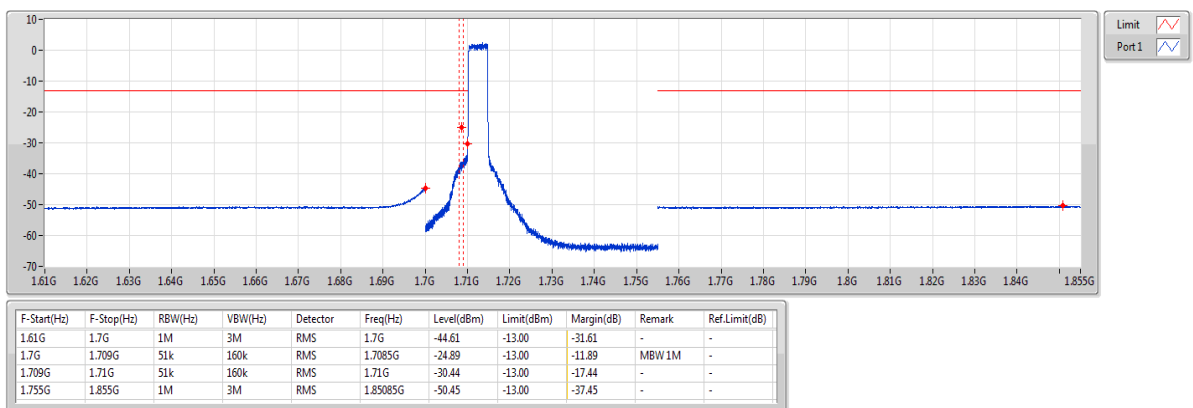
Band 4 LTE_5MHz_Nss1,16QAM_1TX
1712.5MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



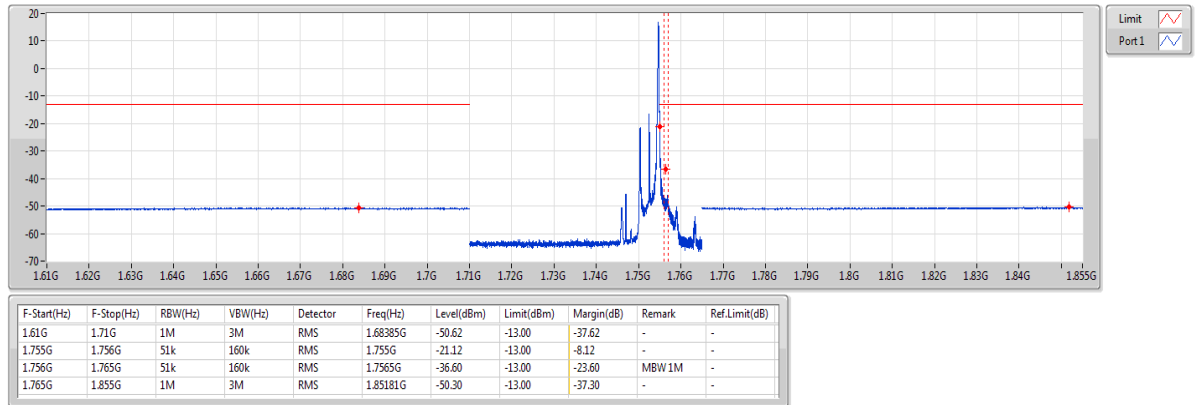
Band 4 LTE_5MHz_Nss1,16QAM_1TX
1712.5MHz_16QAM_RB 25,#RB 0

CSE-TX-Sum



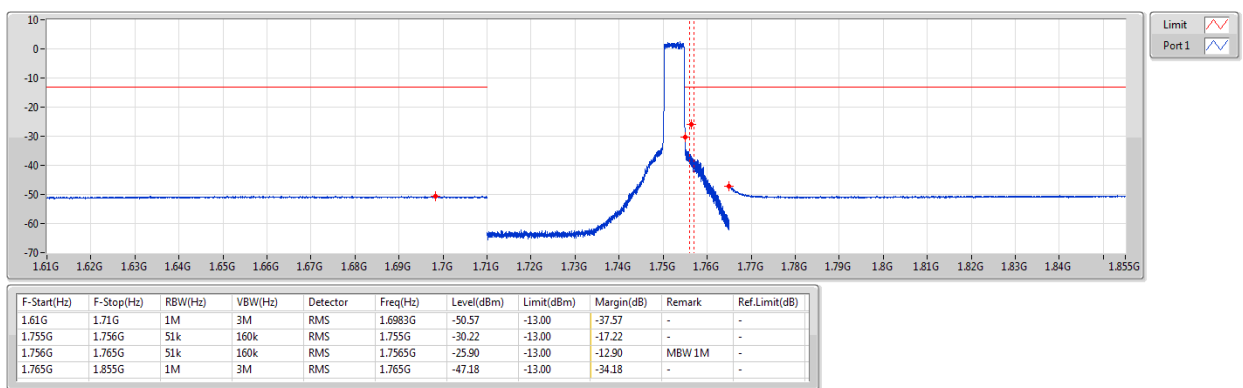
Band 4_LTE_5MHz_Nss1,16QAM_1TX
1752.5MHz_16QAM_RB 1,#RB 24

CSE-TX-Sum



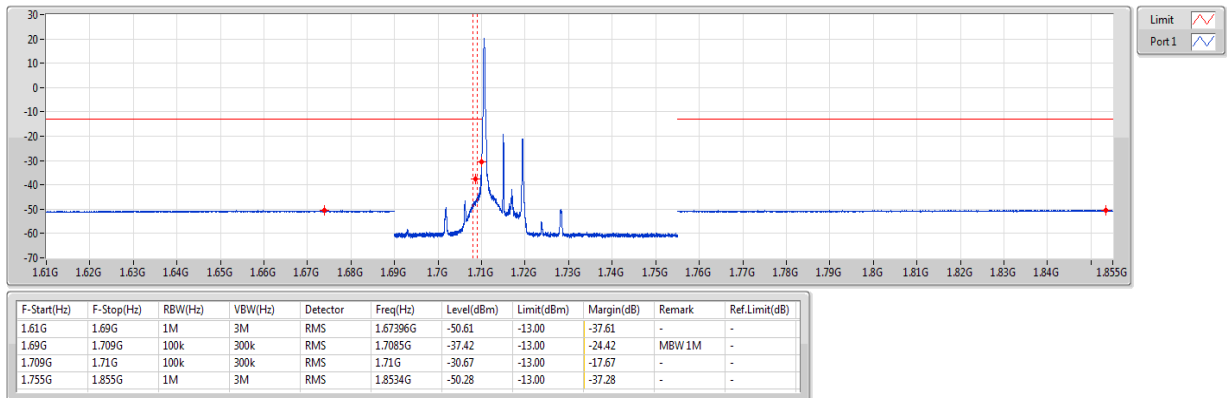
Band 4_LTE_5MHz_Nss1,16QAM_1TX
1752.5MHz_16QAM_RB 25,#RB 0

CSE-TX-Sum



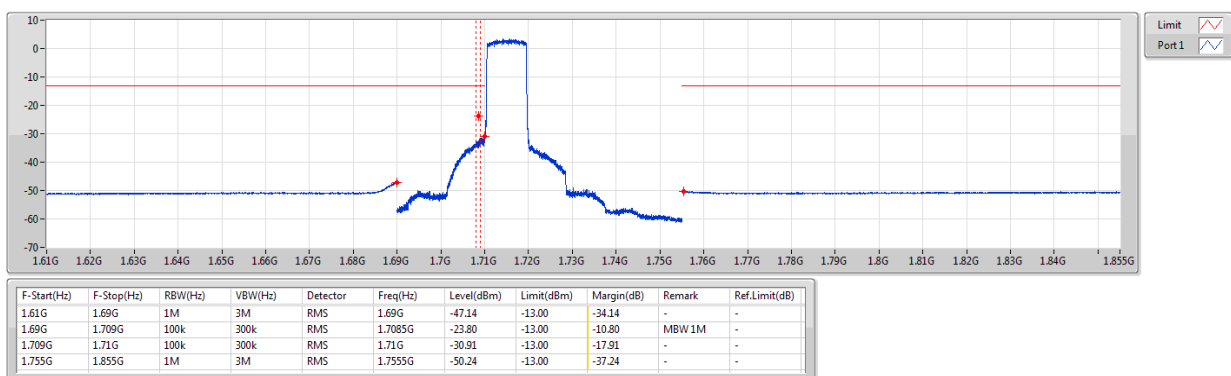
Band 4_LTE_10MHz_Nss1,QPSK_1TX
1715MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



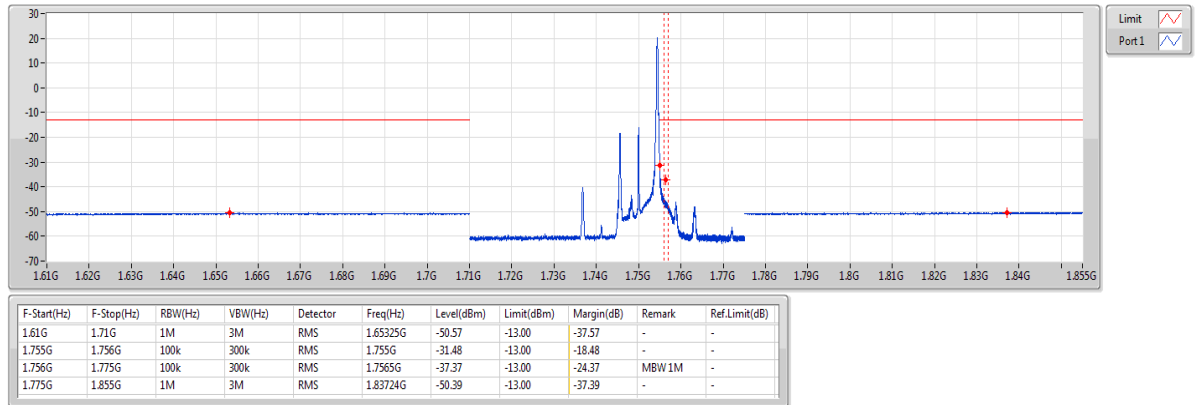
Band 4_LTE_10MHz_Nss1,QPSK_1TX
1715MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



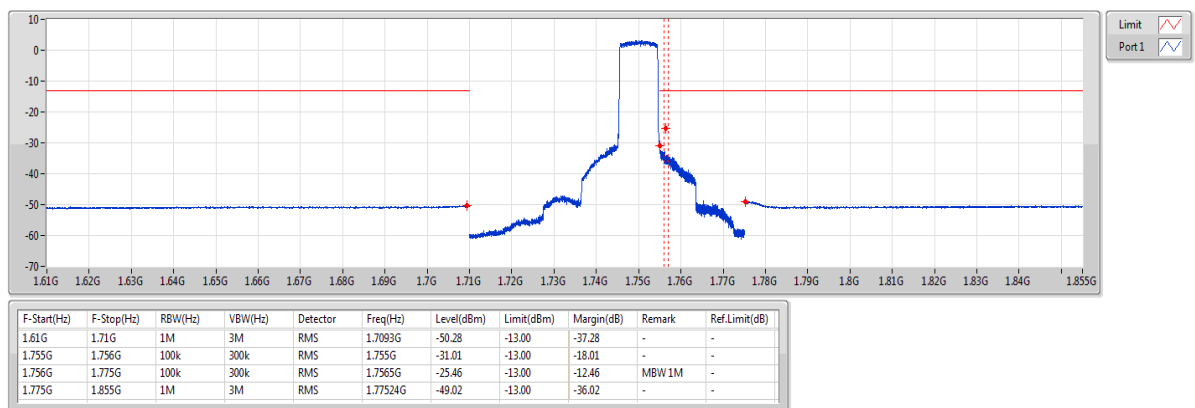
Band 4 LTE_10MHz_Nss1,QPSK_1TX
1750MHz_QPSK_RB 1,#RB 49

CSE-TX-Sum



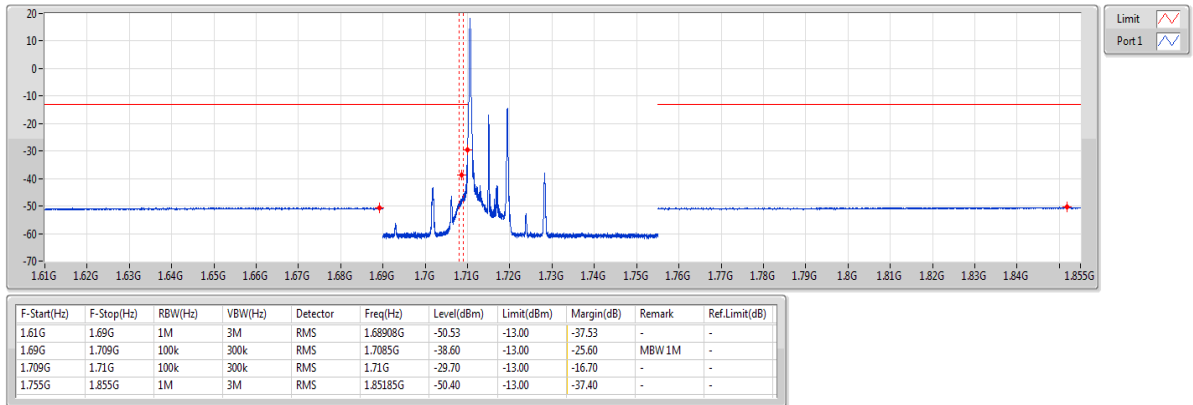
Band 4 LTE_10MHz_Nss1,QPSK_1TX
1750MHz_QPSK_RB 50,#RB 0

CSE-TX-Sum



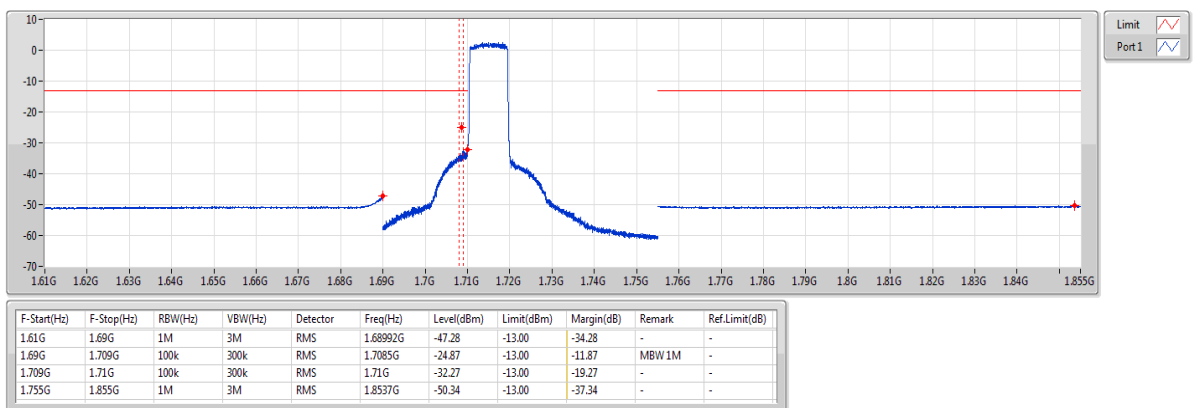
Band 4 LTE_10MHz_Nss1,16QAM_1TX
1715MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



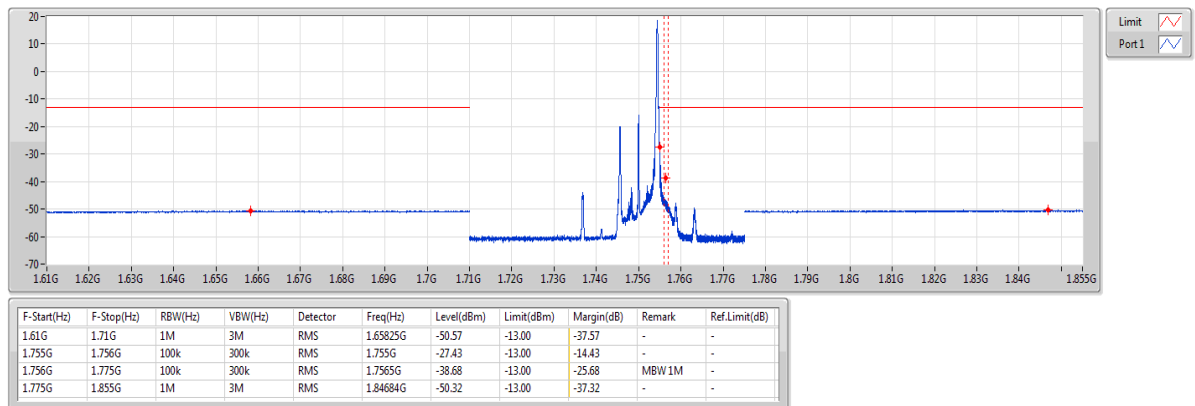
Band 4 LTE_10MHz_Nss1,16QAM_1TX
1715MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



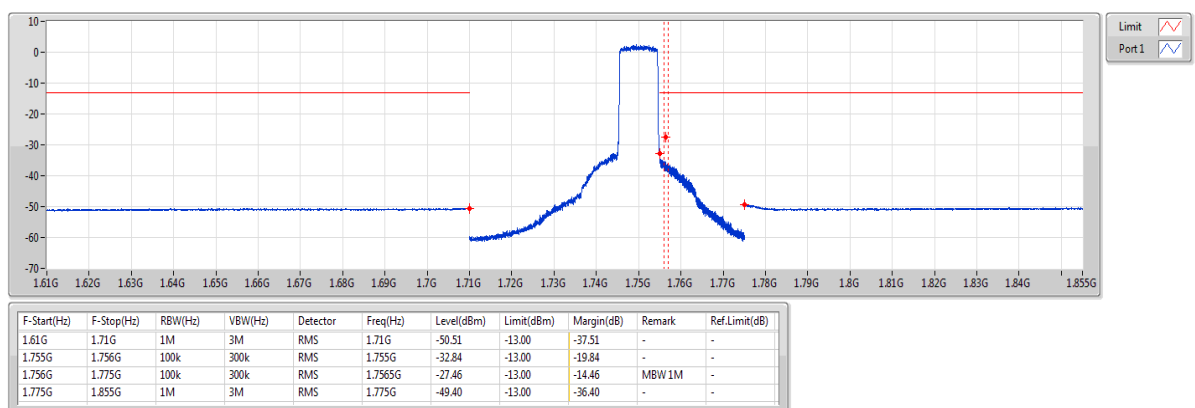
Band 4 LTE_10MHz_Nss1,16QAM_1TX
1750MHz_16QAM_RB 1,#RB 49

CSE-TX-Sum



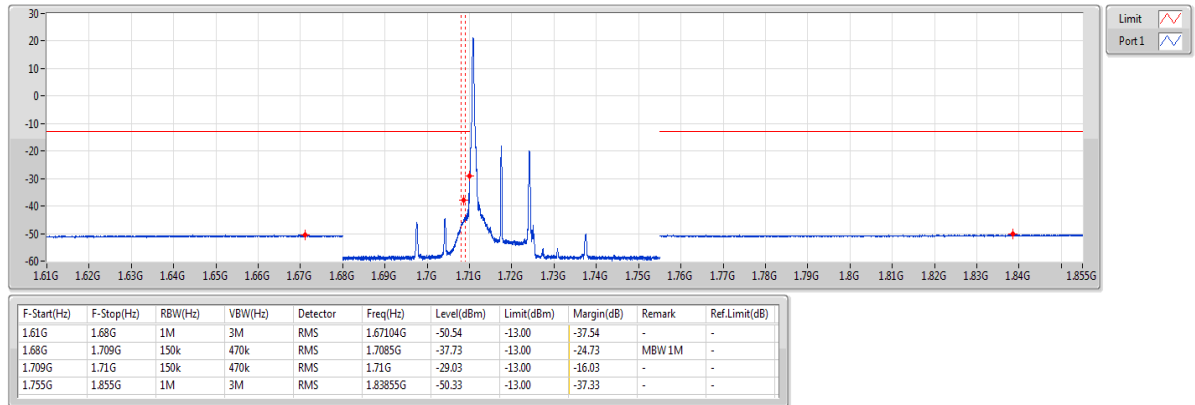
Band 4 LTE_10MHz_Nss1,16QAM_1TX
1750MHz_16QAM_RB 50,#RB 0

CSE-TX-Sum



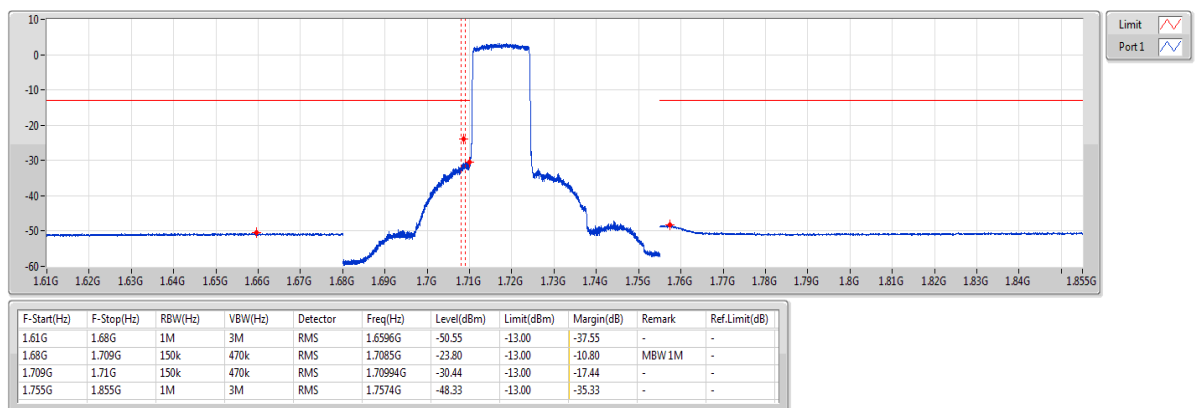
Band 4 LTE_15MHz_Nss1,QPSK_1TX
1717.5MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



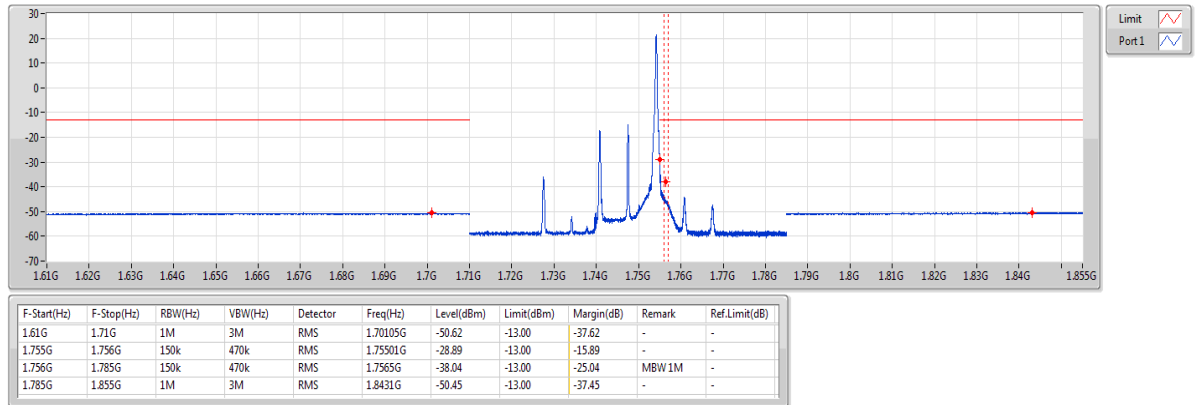
Band 4 LTE_15MHz_Nss1,QPSK_1TX
1717.5MHz_QPSK_RB 75,#RB 0

CSE-TX-Sum



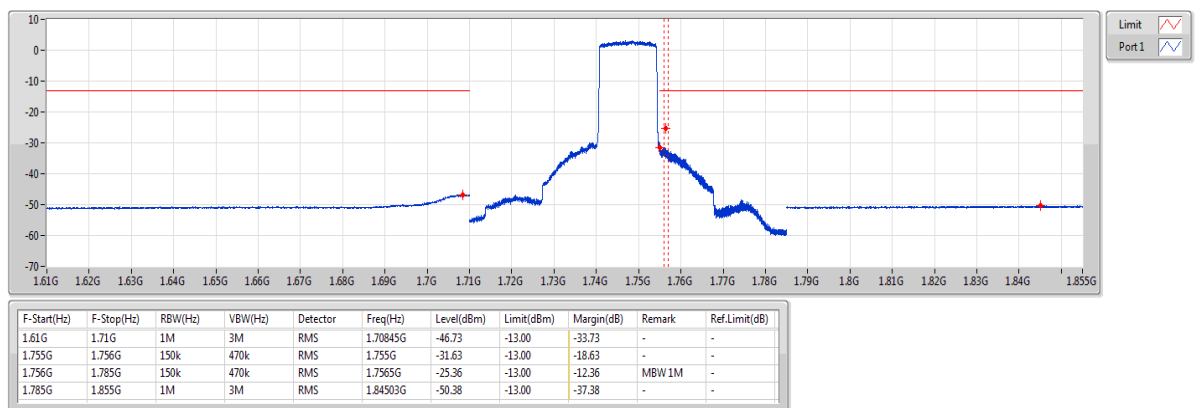
Band 4 LTE_15MHz_Nss1,QPSK_1TX
1747.5MHz_QPSK_RB 1,#RB 74

CSE-TX-Sum



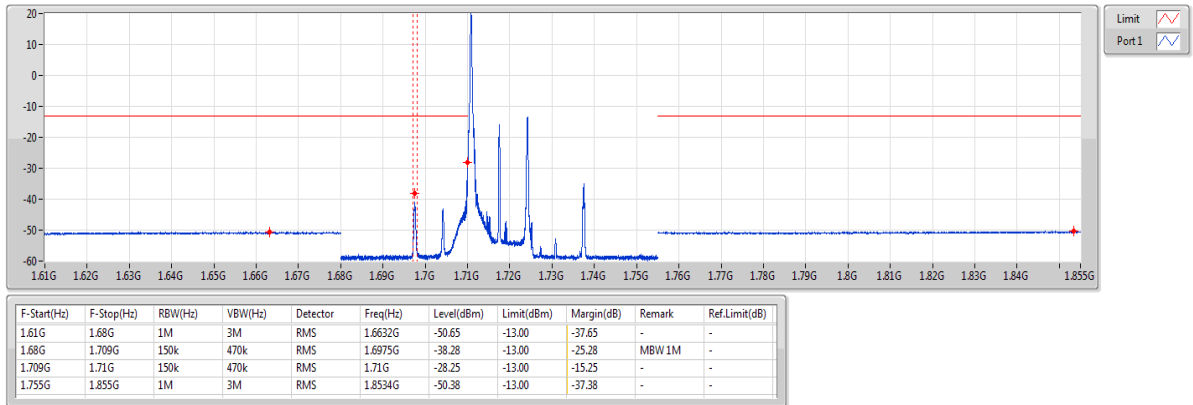
Band 4 LTE_15MHz_Nss1,QPSK_1TX
1747.5MHz_QPSK_RB 75,#RB 0

CSE-TX-Sum



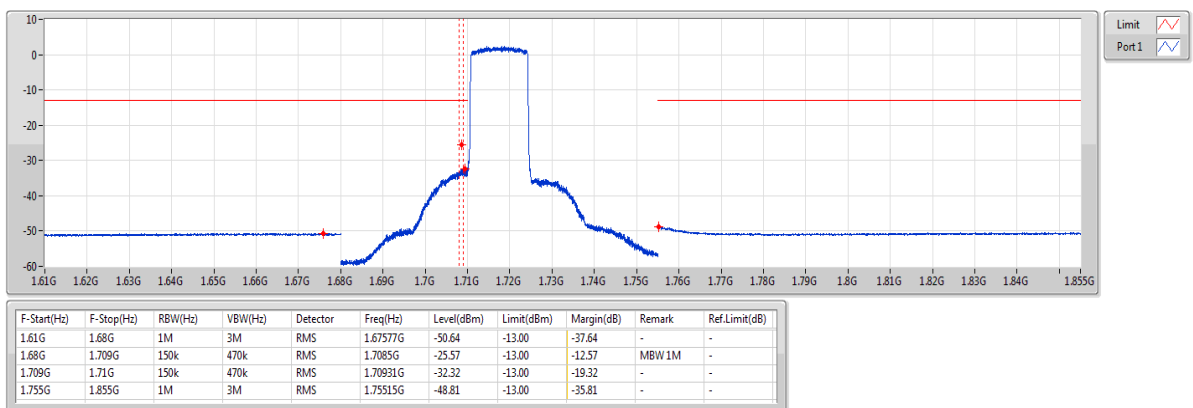
Band 4 LTE_15MHz_Nss1,16QAM_1TX
1717.5MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



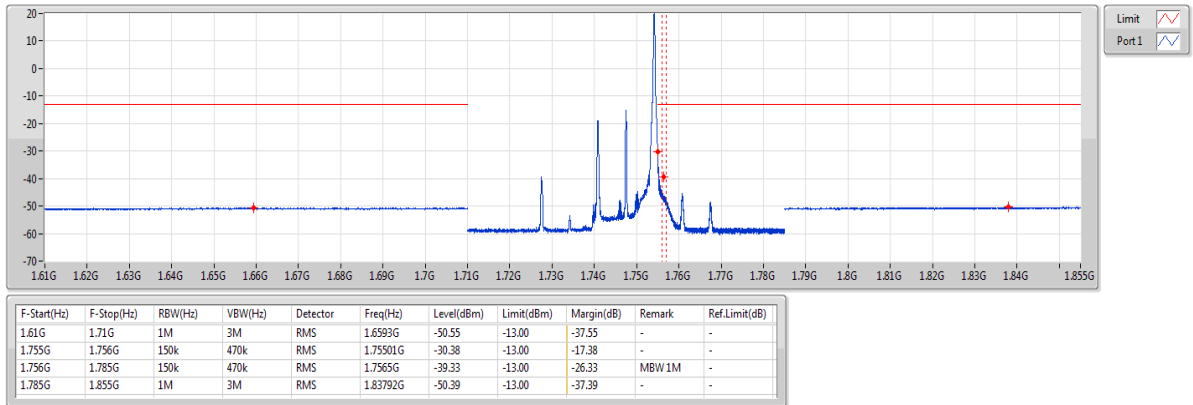
Band 4 LTE_15MHz_Nss1,16QAM_1TX
1717.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



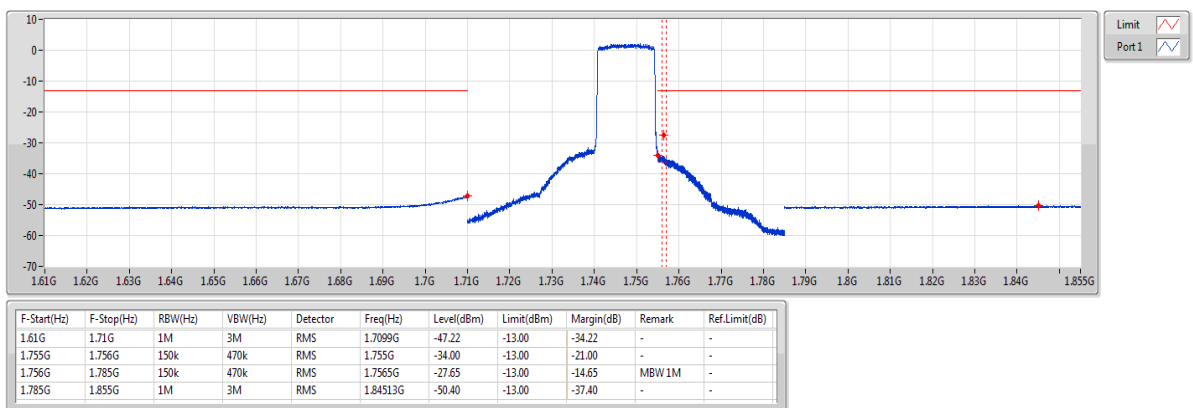
Band 4 LTE_15MHz_Nss1,16QAM_1TX
1747.5MHz_16QAM_RB 1,#RB 74

CSE-TX-Sum



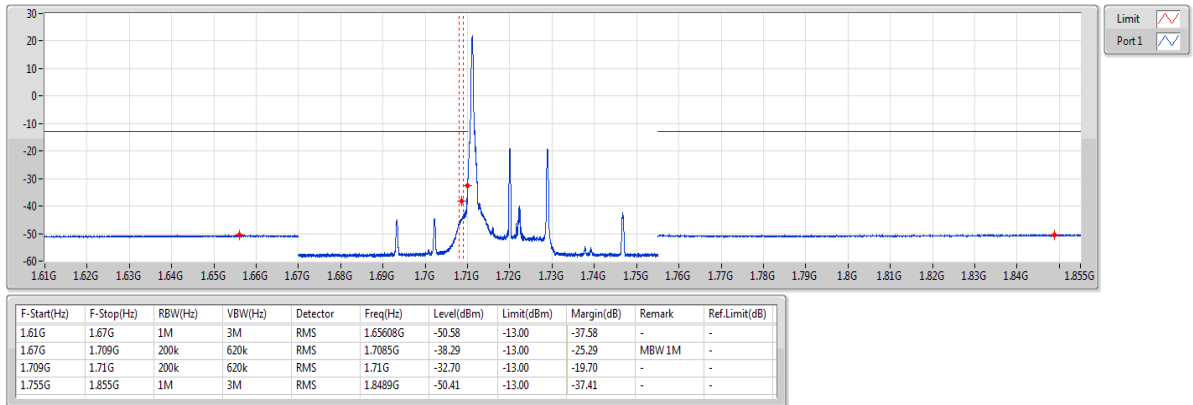
Band 4 LTE_15MHz_Nss1,16QAM_1TX
1747.5MHz_16QAM_RB 75,#RB 0

CSE-TX-Sum



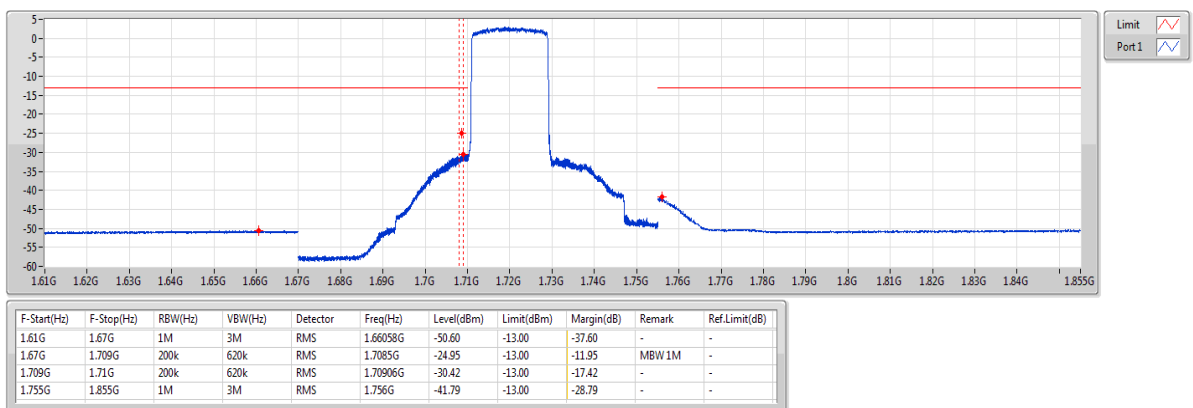
Band 4 LTE_20MHz_Nss1,QPSK_1TX
1720MHz_QPSK_RB 1,#RB 0

CSE-TX-Sum



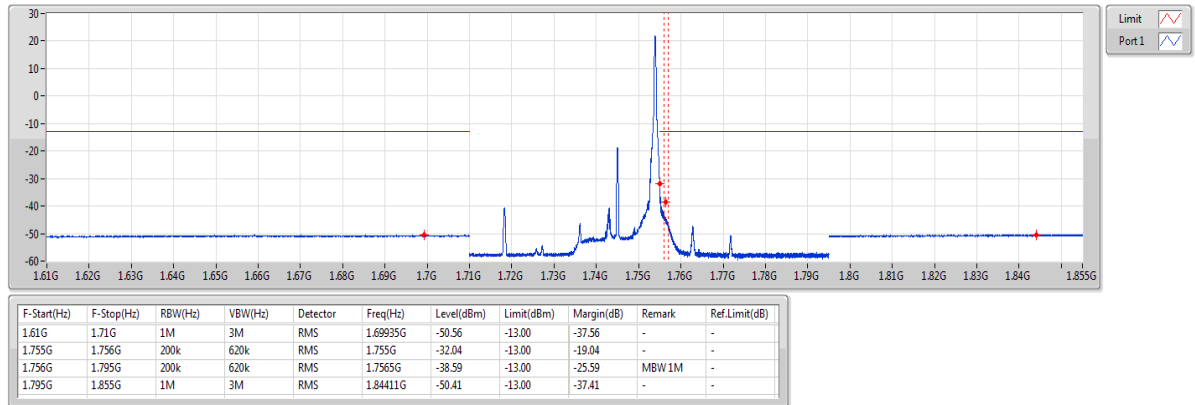
Band 4 LTE_20MHz_Nss1,QPSK_1TX
1720MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



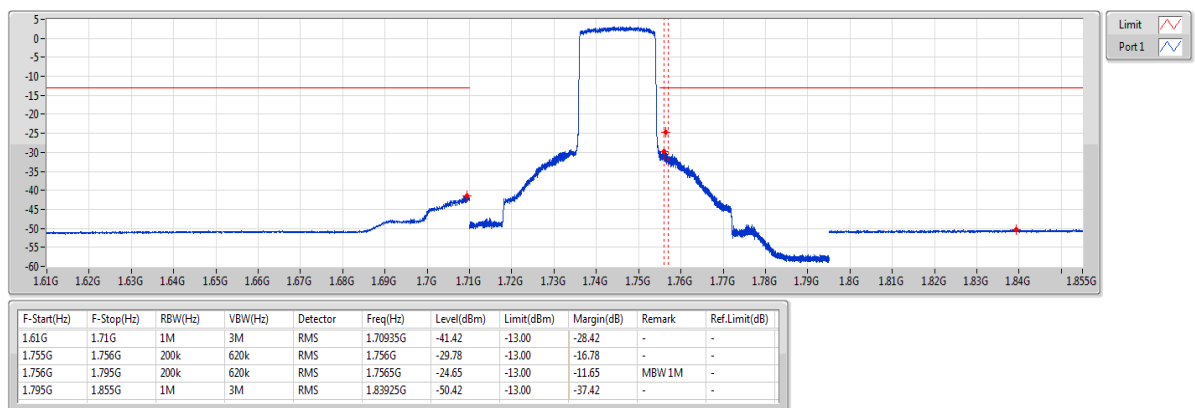
Band 4 LTE_20MHz_Nss1,QPSK_1TX
1745MHz_QPSK_RB 1,#RB 99

CSE-TX-Sum



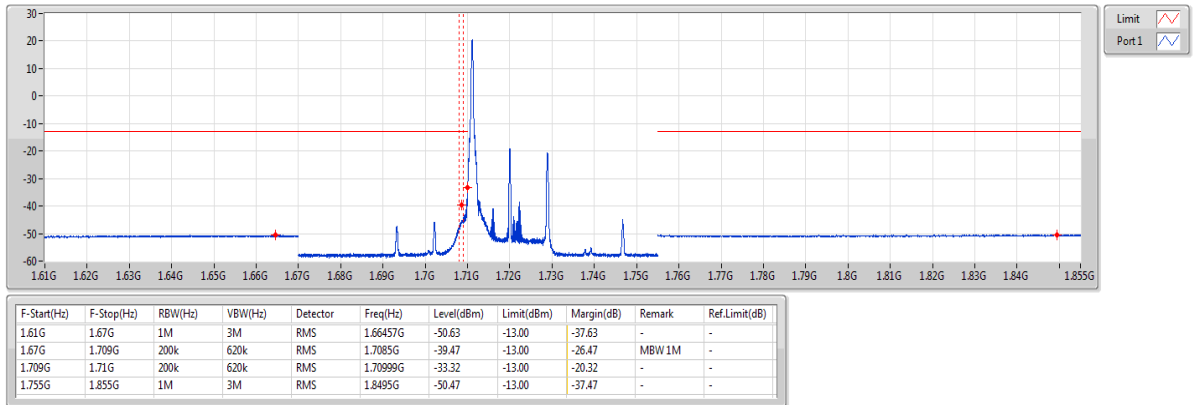
Band 4 LTE_20MHz_Nss1,QPSK_1TX
1745MHz_QPSK_RB 100,#RB 0

CSE-TX-Sum



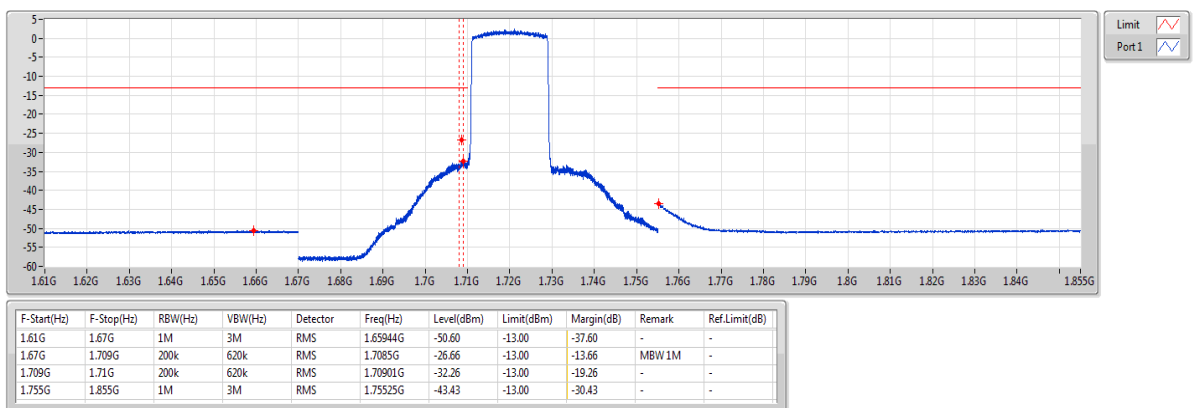
Band 4 LTE_20MHz_Nss1,16QAM_1TX
1720MHz_16QAM_RB 1,#RB 0

CSE-TX-Sum



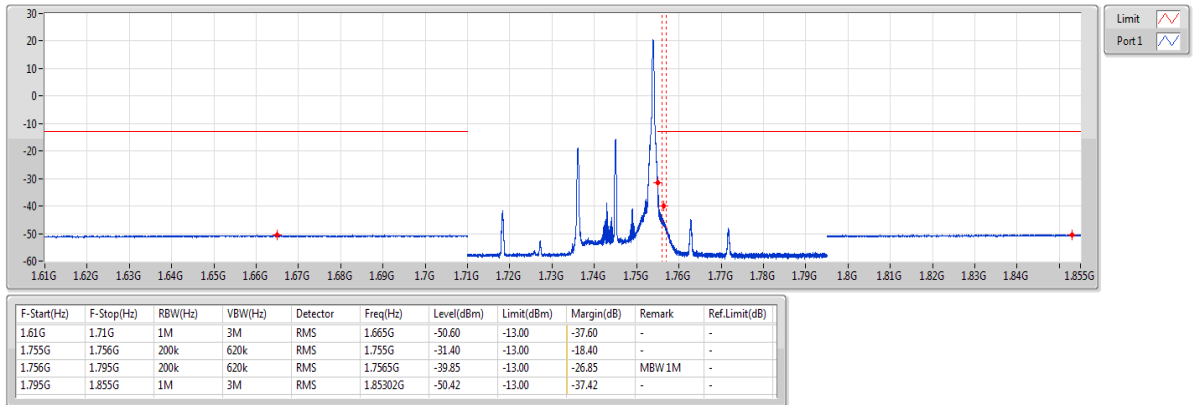
Band 4 LTE_20MHz_Nss1,16QAM_1TX
1720MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum



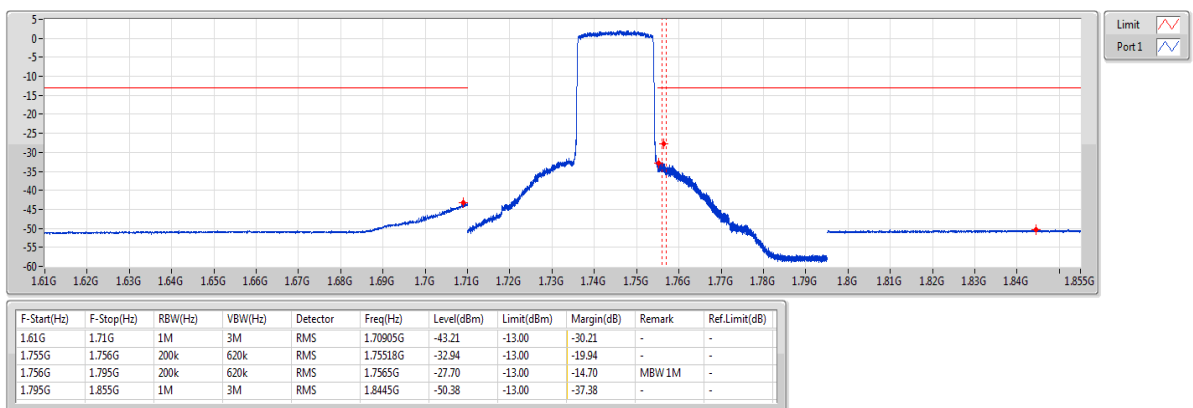
Band 4 LTE_20MHz_Nss1,16QAM_1TX
1745MHz_16QAM_RB 1,#RB 99

CSE-TX-Sum



Band 4 LTE_20MHz_Nss1,16QAM_1TX
1745MHz_16QAM_RB 100,#RB 0

CSE-TX-Sum

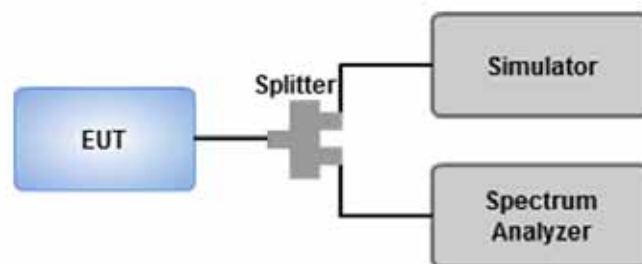


3.5 Occupied Bandwidth

3.5.1 Test Procedures

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Using occupied bandwidth measurement function of spectrum analyzer to measure occupied bandwidth
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 26dB relative to the maximum level measured in the fundamental emission.

3.5.2 Test Setup



3.5.3 Test Result of Occupied Bandwidth

Summary

Mode	Max-NdB (Hz)	Max-OBW (Hz)	ITU-Code	Min-NdB (Hz)	Min-OBW (Hz)
Band 4	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	1.237M	1.082M	1M08G7D	1.236M	1.079M
LTE_1.4MHz_Nss1,16QAM_1TX	1.239M	1.081M	1M08W7D	1.23M	1.079M
LTE_3MHz_Nss1,QPSK_1TX	2.914M	2.678M	2M68G7D	2.903M	2.676M
LTE_3MHz_Nss1,16QAM_1TX	2.921M	2.683M	2M68W7D	2.906M	2.679M
LTE_5MHz_Nss1,QPSK_1TX	4.931M	4.469M	4M47G7D	4.875M	4.468M
LTE_5MHz_Nss1,16QAM_1TX	4.931M	4.469M	4M47W7D	4.894M	4.463M
LTE_10MHz_Nss1,QPSK_1TX	9.638M	8.924M	8M92G7D	9.638M	8.923M
LTE_10MHz_Nss1,16QAM_1TX	9.6M	8.912M	8M91W7D	9.538M	8.901M
LTE_15MHz_Nss1,QPSK_1TX	14.344M	13.406M	13M4G7D	14.269M	13.374M
LTE_15MHz_Nss1,16QAM_1TX	14.494M	13.377M	13M4W7D	14.344M	13.365M
LTE_20MHz_Nss1,QPSK_1TX	19.125M	17.827M	17M8G7D	18.925M	17.817M
LTE_20MHz_Nss1,16QAM_1TX	18.975M	17.821M	17M8W7D	18.95M	17.794M

Max-N dB = Maximum 26dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 26dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)
Band 4_LTE_1.4MHz_Nss1_1TX	-	-	-	-
1710.7MHz_QPSK_RB 6,#RB 0	Pass	Inf	1.237M	1.082M
1732.5MHz_QPSK_RB 6,#RB 0	Pass	Inf	1.236M	1.081M
1754.3MHz_QPSK_RB 6,#RB 0	Pass	Inf	1.236M	1.079M
1710.7MHz_16QAM_RB 6,#RB 0	Pass	Inf	1.232M	1.079M
1732.5MHz_16QAM_RB 6,#RB 0	Pass	Inf	1.239M	1.08M
1754.3MHz_16QAM_RB 6,#RB 0	Pass	Inf	1.23M	1.081M
Band 4_LTE_3MHz_Nss1_1TX	-	-	-	-
1711.5MHz_QPSK_RB 15,#RB 0	Pass	Inf	2.903M	2.676M
1732.5MHz_QPSK_RB 15,#RB 0	Pass	Inf	2.914M	2.678M
1753.5MHz_QPSK_RB 15,#RB 0	Pass	Inf	2.91M	2.677M
1711.5MHz_16QAM_RB 15,#RB 0	Pass	Inf	2.918M	2.683M
1732.5MHz_16QAM_RB 15,#RB 0	Pass	Inf	2.906M	2.682M
1753.5MHz_16QAM_RB 15,#RB 0	Pass	Inf	2.921M	2.679M
Band 4_LTE_5MHz_Nss1_1TX	-	-	-	-
1712.5MHz_QPSK_RB 25,#RB 0	Pass	Inf	4.894M	4.469M
1732.5MHz_QPSK_RB 25,#RB 0	Pass	Inf	4.931M	4.469M
1752.5MHz_QPSK_RB 25,#RB 0	Pass	Inf	4.875M	4.468M
1712.5MHz_16QAM_RB 25,#RB 0	Pass	Inf	4.931M	4.469M
1732.5MHz_16QAM_RB 25,#RB 0	Pass	Inf	4.9M	4.468M
1752.5MHz_16QAM_RB 25,#RB 0	Pass	Inf	4.894M	4.463M
Band 4_LTE_10MHz_Nss1_1TX	-	-	-	-
1715MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.638M	8.923M
1732.5MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.638M	8.924M
1750MHz_QPSK_RB 50,#RB 0	Pass	Inf	9.638M	8.923M
1715MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.55M	8.901M
1732.5MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.6M	8.912M
1750MHz_16QAM_RB 50,#RB 0	Pass	Inf	9.538M	8.908M
Band 4_LTE_15MHz_Nss1_1TX	-	-	-	-
1717.5MHz_QPSK_RB 75,#RB 0	Pass	Inf	14.269M	13.374M
1732.5MHz_QPSK_RB 75,#RB 0	Pass	Inf	14.269M	13.406M
1747.5MHz_QPSK_RB 75,#RB 0	Pass	Inf	14.344M	13.39M
1717.5MHz_16QAM_RB 75,#RB 0	Pass	Inf	14.344M	13.365M
1732.5MHz_16QAM_RB 75,#RB 0	Pass	Inf	14.494M	13.377M
1747.5MHz_16QAM_RB 75,#RB 0	Pass	Inf	14.363M	13.375M

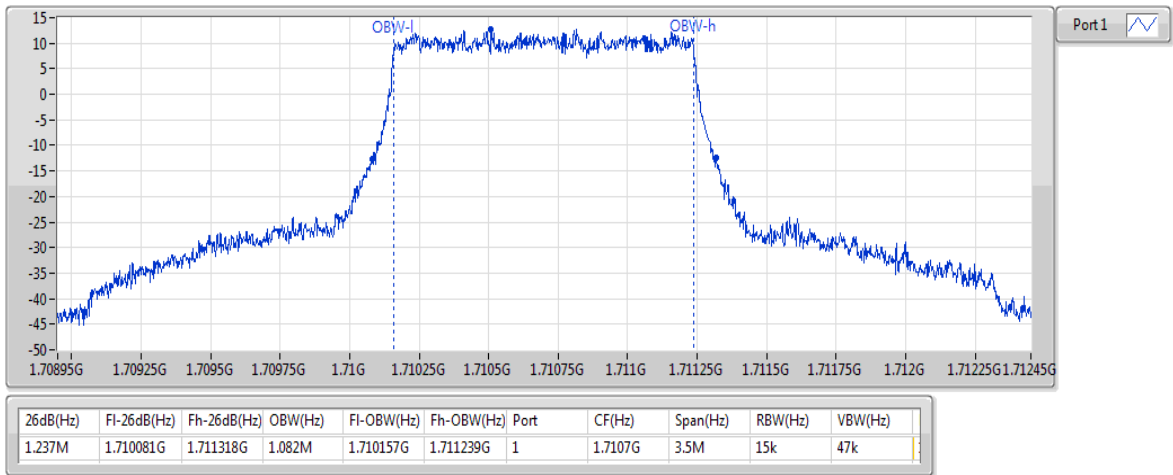
Mode	Result	Limit (Hz)	Port 1-NdB (Hz)	Port 1-OBW (Hz)
Band 4_LTE_20MHz_Nss1_1TX	-	-	-	-
1720MHz_QPSK_RB 100,#RB 0	Pass	Inf	19.125M	17.819M
1732.5MHz_QPSK_RB 100,#RB 0	Pass	Inf	18.925M	17.827M
1745MHz_QPSK_RB 100,#RB 0	Pass	Inf	18.925M	17.817M
1720MHz_16QAM_RB 100,#RB 0	Pass	Inf	18.975M	17.794M
1732.5MHz_16QAM_RB 100,#RB 0	Pass	Inf	18.95M	17.805M
1745MHz_16QAM_RB 100,#RB 0	Pass	Inf	18.95M	17.821M

Port X-N dB = Port X 26dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

Band 4_LTE_1.4MHz_Nss1,QPSK_1TX

EBW

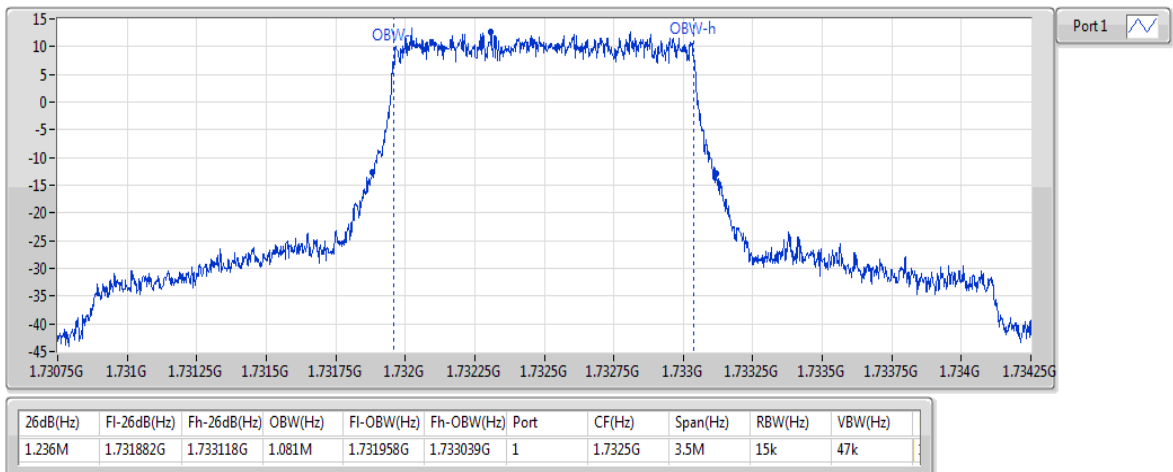
1710.7MHz_QPSK_RB 6,#RB 0



Band 4_LTE_1.4MHz_Nss1,QPSK_1TX

EBW

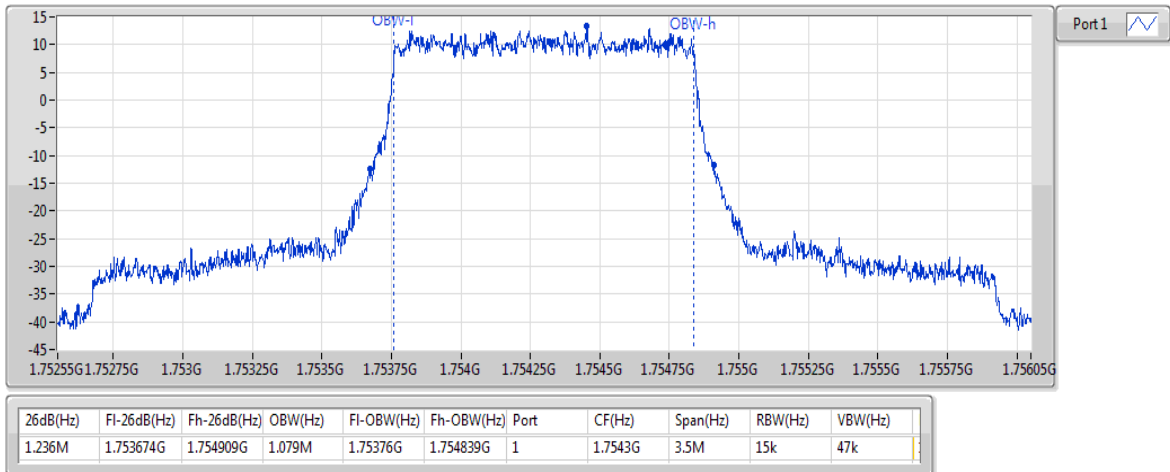
1732.5MHz_QPSK_RB 6,#RB 0



Band 4_LTE_1.4MHz_Nss1,QPSK_1TX

EBW

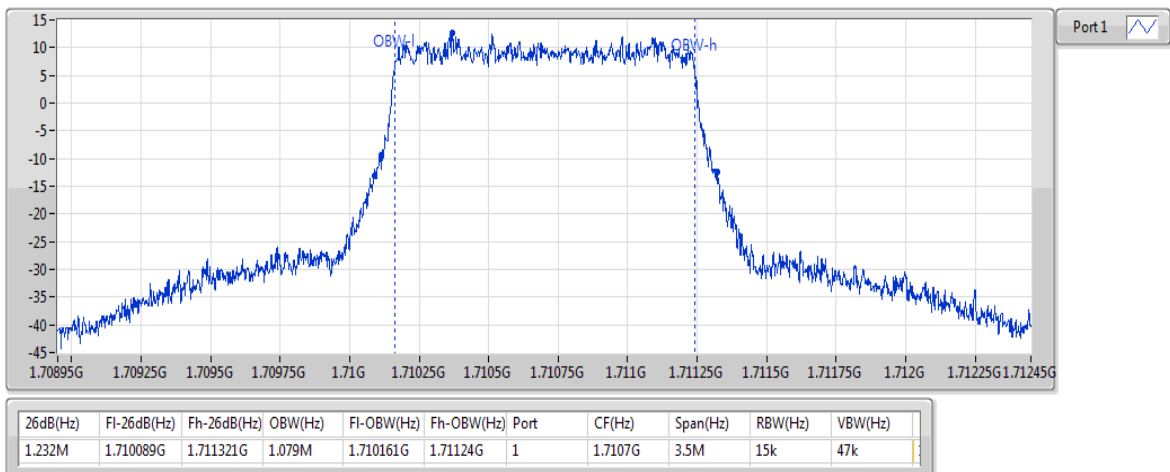
1754.3MHz_QPSK_RB 6,#RB 0



Band 4_LTE_1.4MHz_Nss1,16QAM_1TX

EBW

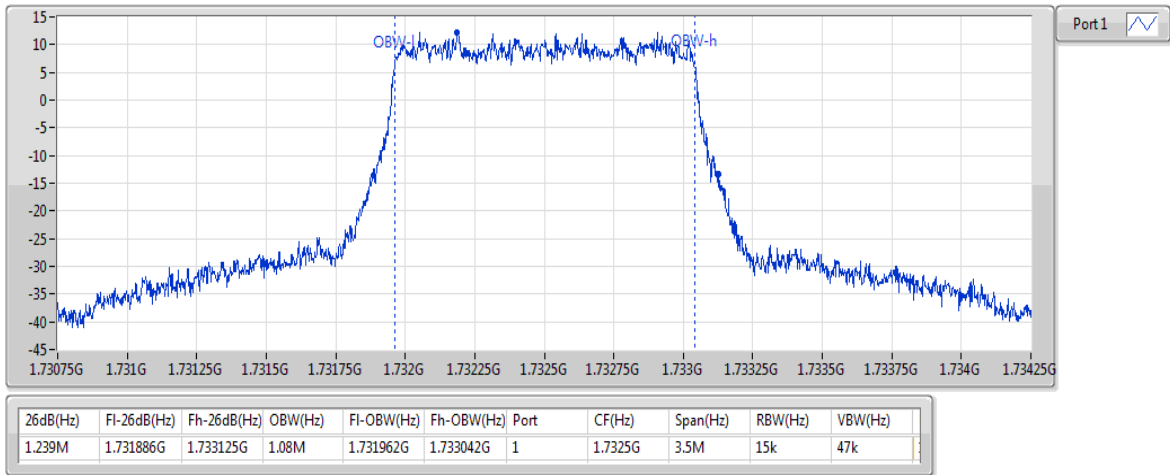
1710.7MHz_16QAM_RB 6,#RB 0



Band 4_LTE_1.4MHz_Nss1,16QAM_1TX

EBW

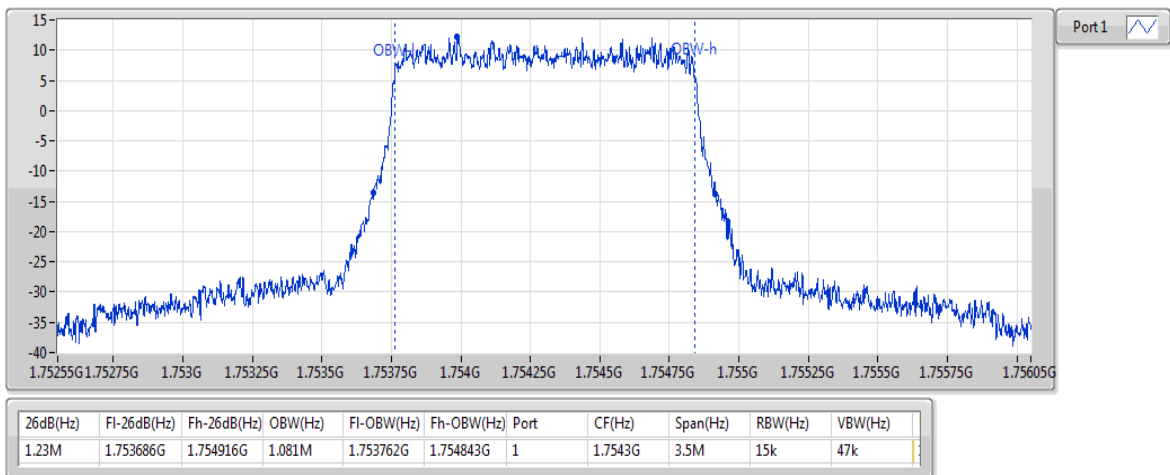
1732.5MHz_16QAM_RB 6,#RB 0



Band 4_LTE_1.4MHz_Nss1,16QAM_1TX

EBW

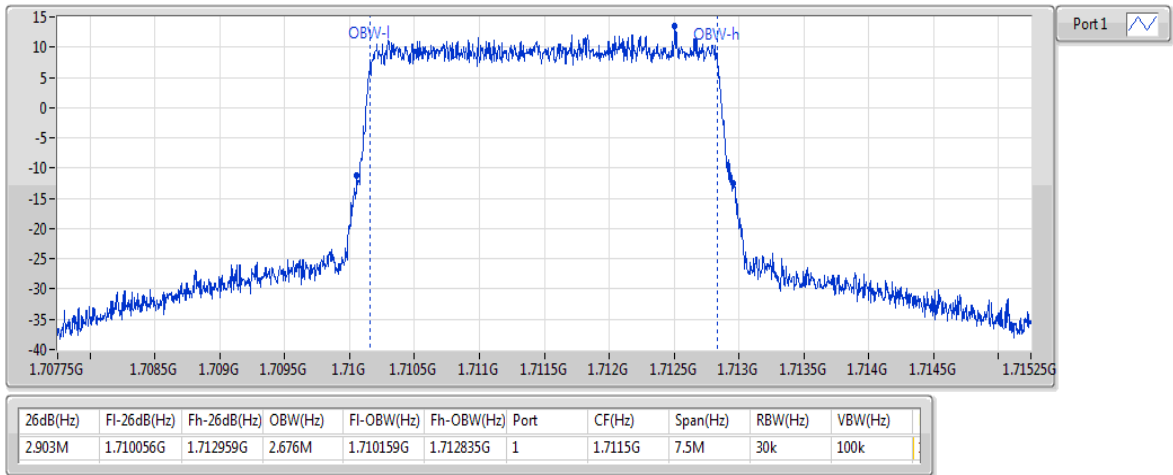
1754.3MHz_16QAM_RB 6,#RB 0



Band 4_LTE_3MHz_Nss1,QPSK_1TX

EBW

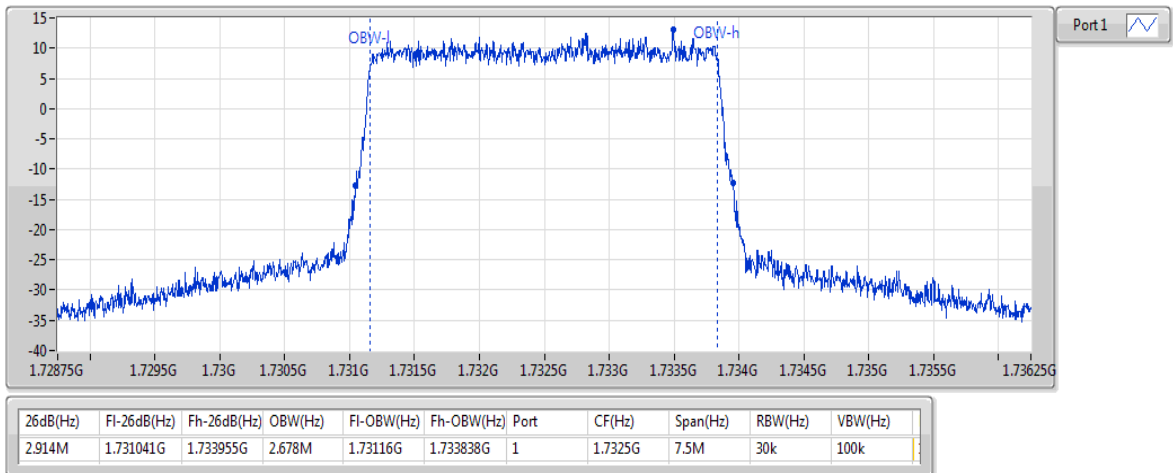
1711.5MHz_QPSK_RB 15,#RB 0



Band 4_LTE_3MHz_Nss1,QPSK_1TX

EBW

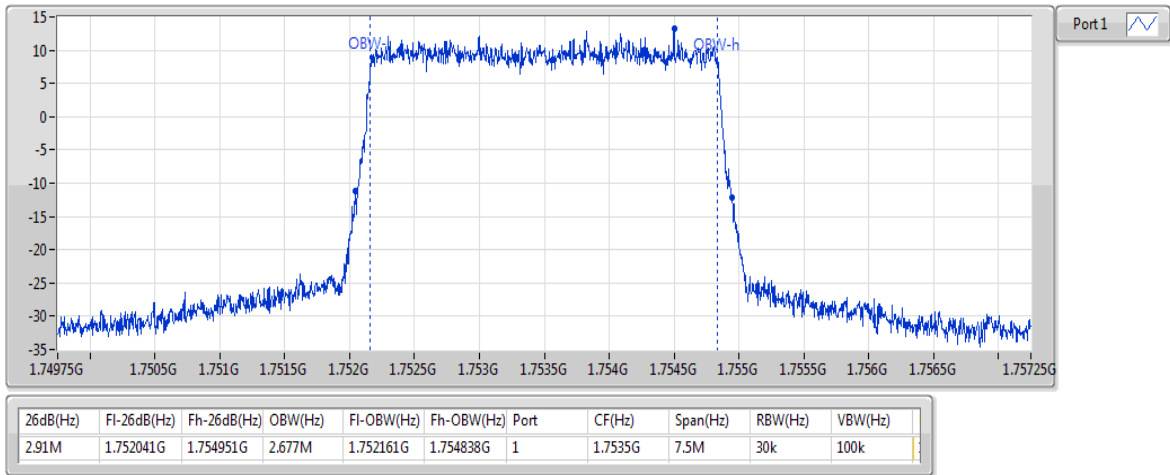
1732.5MHz_QPSK_RB 15,#RB 0



Band 4_LTE_3MHz_Nss1,QPSK_1TX

EBW

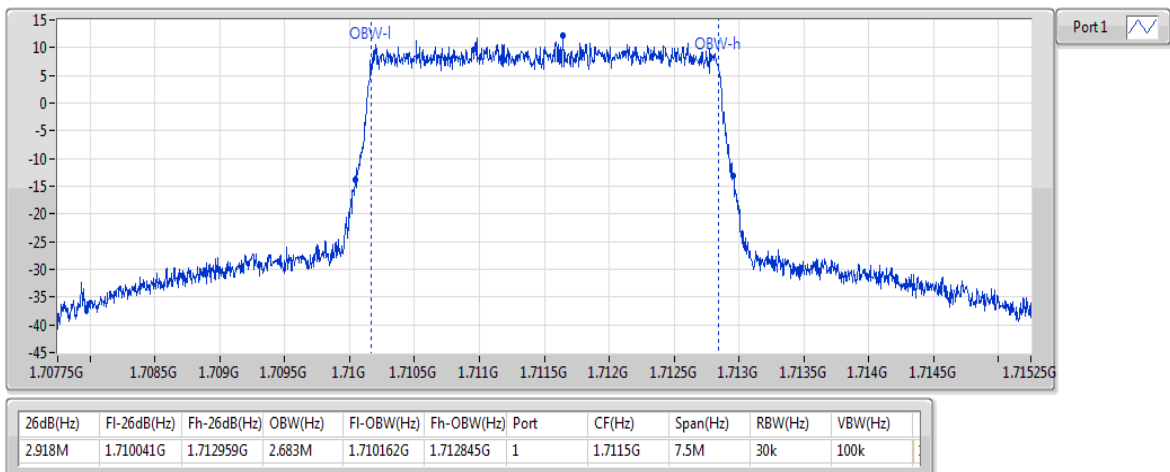
1753.5MHz_QPSK_RB 15,#RB 0



Band 4_LTE_3MHz_Nss1,16QAM_1TX

EBW

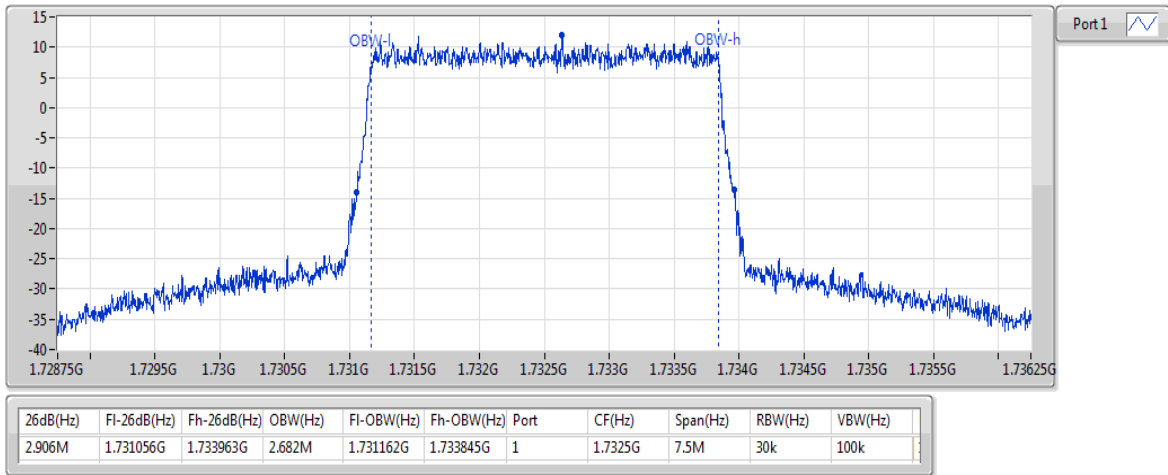
1711.5MHz_16QAM_RB 15,#RB 0



Band 4_LTE_3MHz_Nss1,16QAM_1TX

EBW

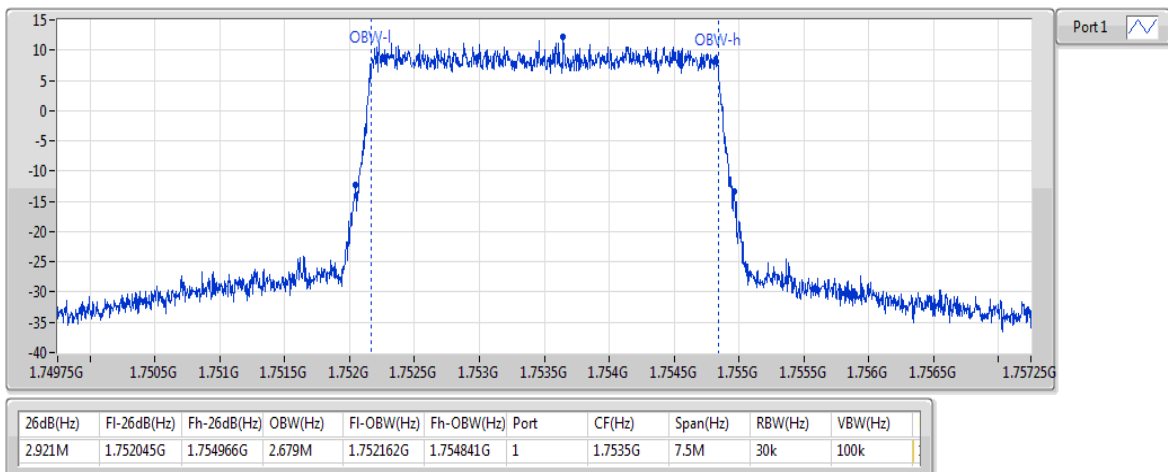
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Band 4_LTE_3MHz_Nss1,16QAM_1TX

EBW

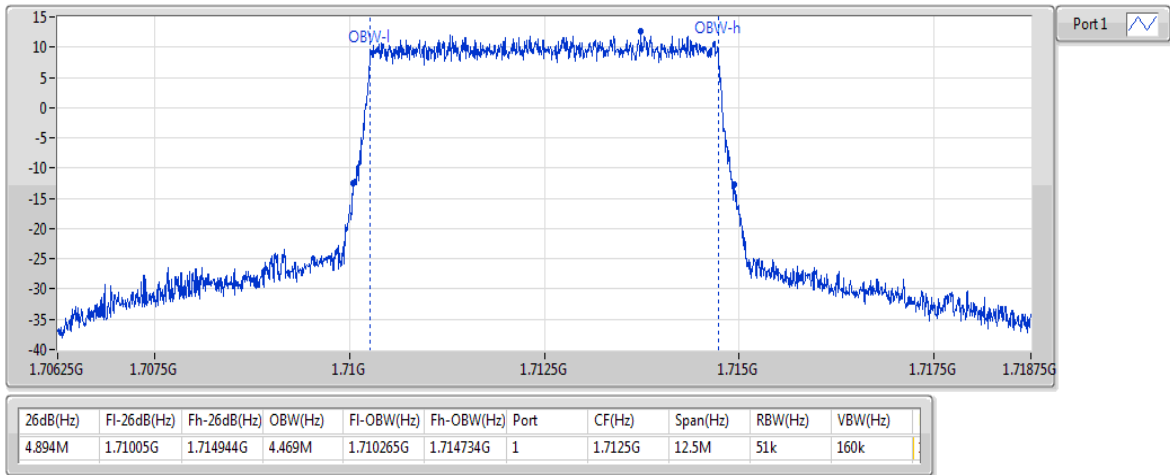
1753.5MHz_16QAM_RB 15,#RB 0



Band 4_LTE_5MHz_Nss1,QPSK_1TX

EBW

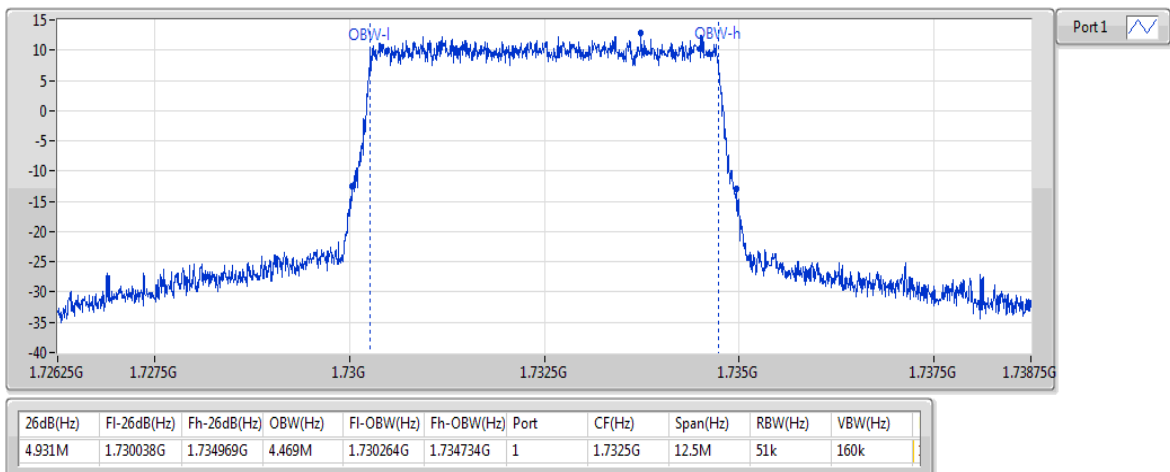
1712.5MHz_QPSK_RB 25,#RB 0



Band 4_LTE_5MHz_Nss1,QPSK_1TX

EBW

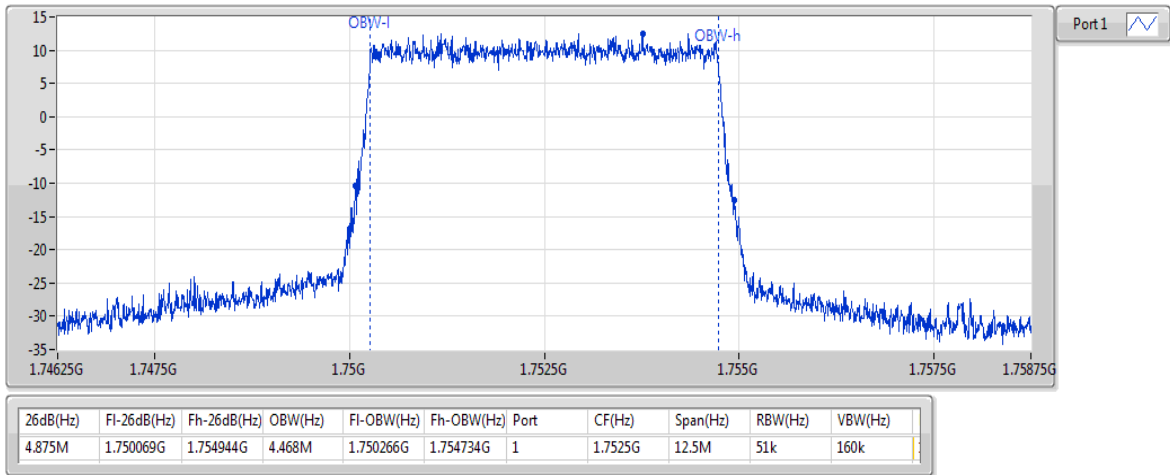
1732.5MHz_QPSK_RB 25,#RB 0



Band 4_LTE_5MHz_Nss1,QPSK_1TX

EBW

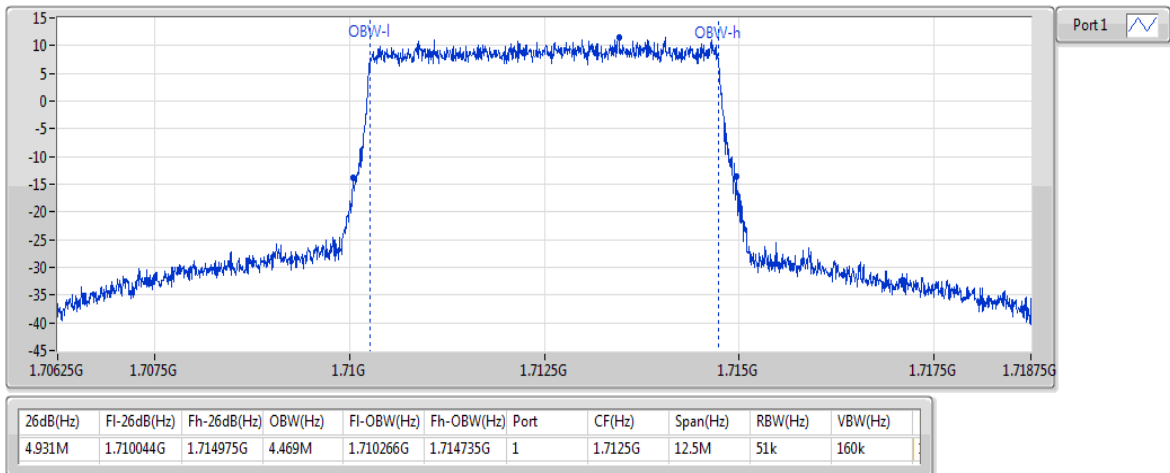
1752.5MHz_QPSK_RB 25,#RB 0



Band 4_LTE_5MHz_Nss1,16QAM_1TX

EBW

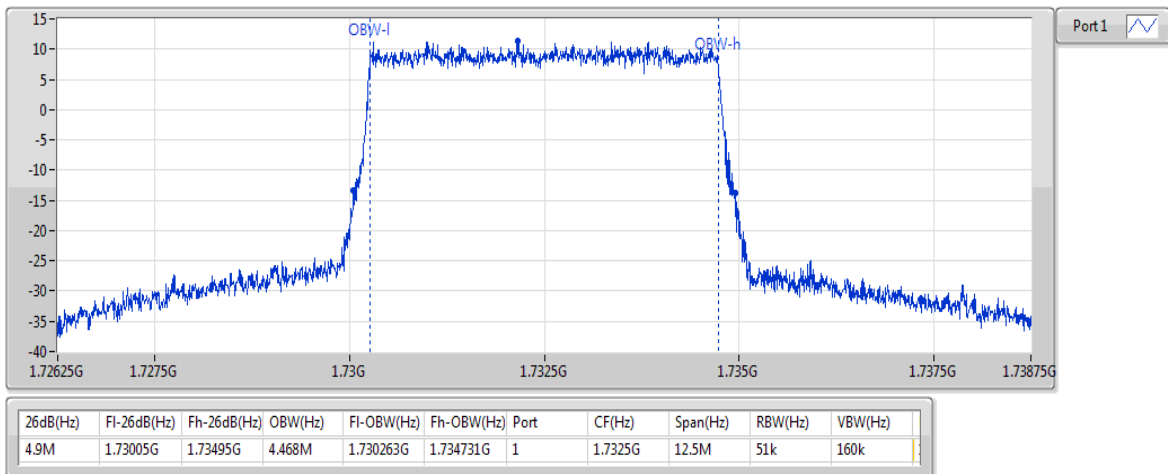
1712.5MHz_16QAM_RB 25,#RB 0



Band 4_LTE_5MHz_Nss1,16QAM_1TX

EBW

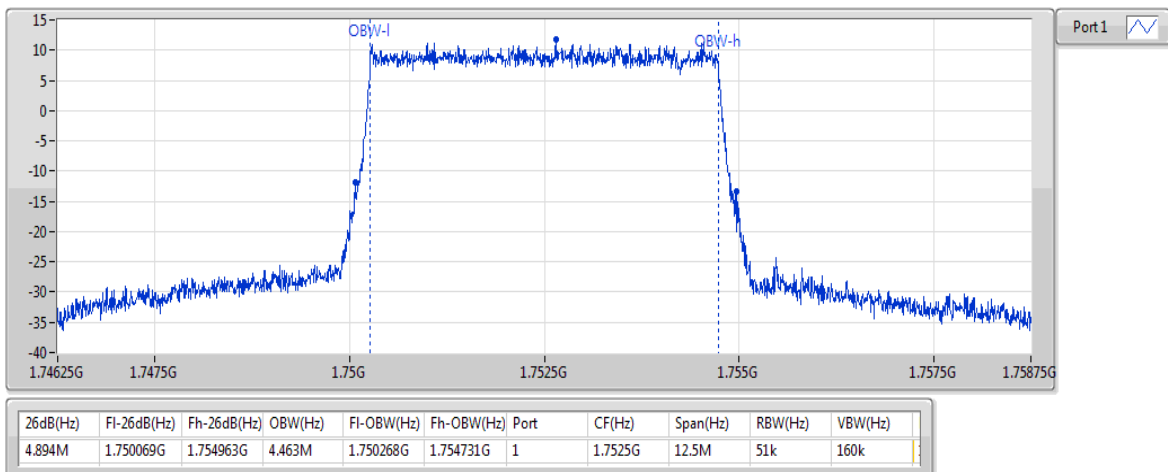
1732.5MHz_16QAM_RB 25,#RB 0



Band 4_LTE_5MHz_Nss1,16QAM_1TX

EBW

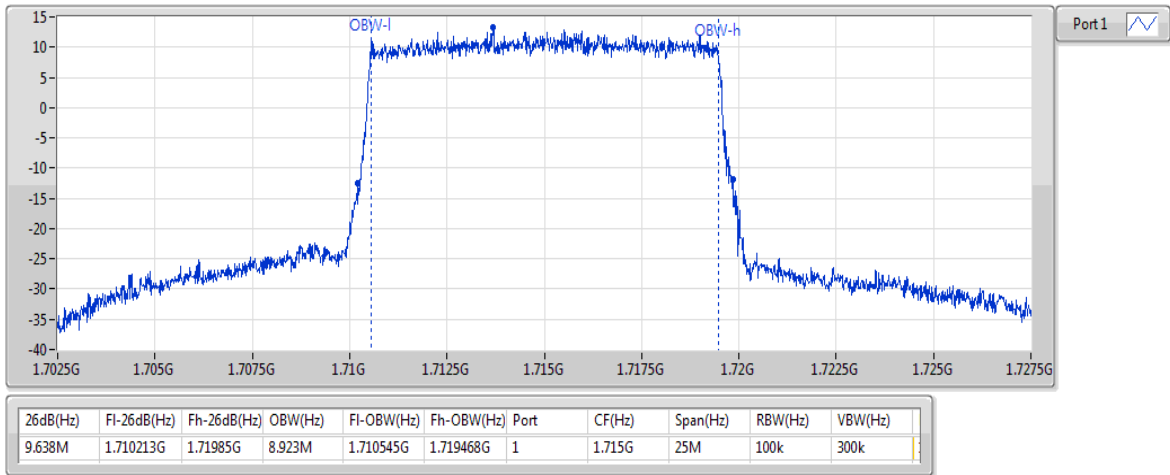
1752.5MHz_16QAM_RB 25,#RB 0



Band 4_LTE_10MHz_Nss1,QPSK_1TX

EBW

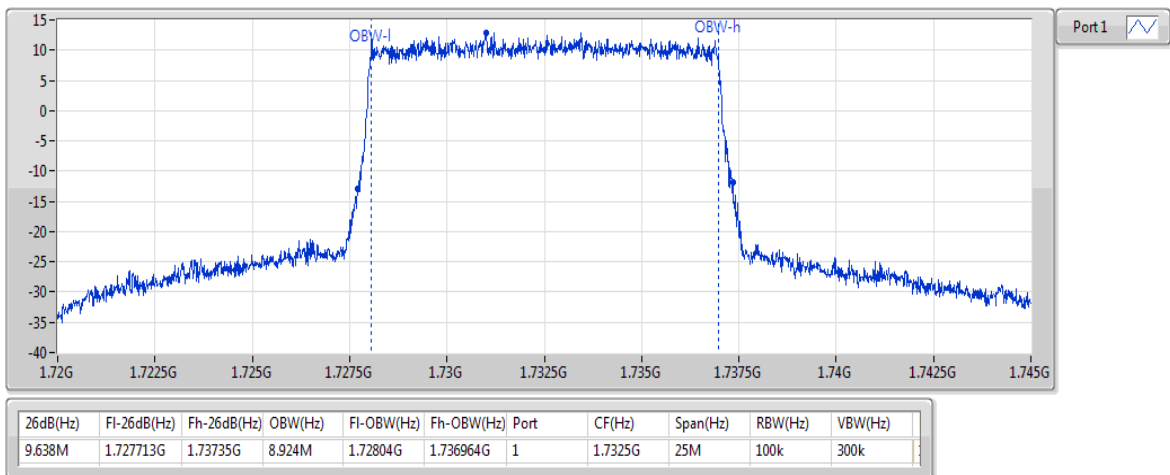
1715MHz_QPSK_RB 50,#RB 0



Band 4_LTE_10MHz_Nss1,QPSK_1TX

EBW

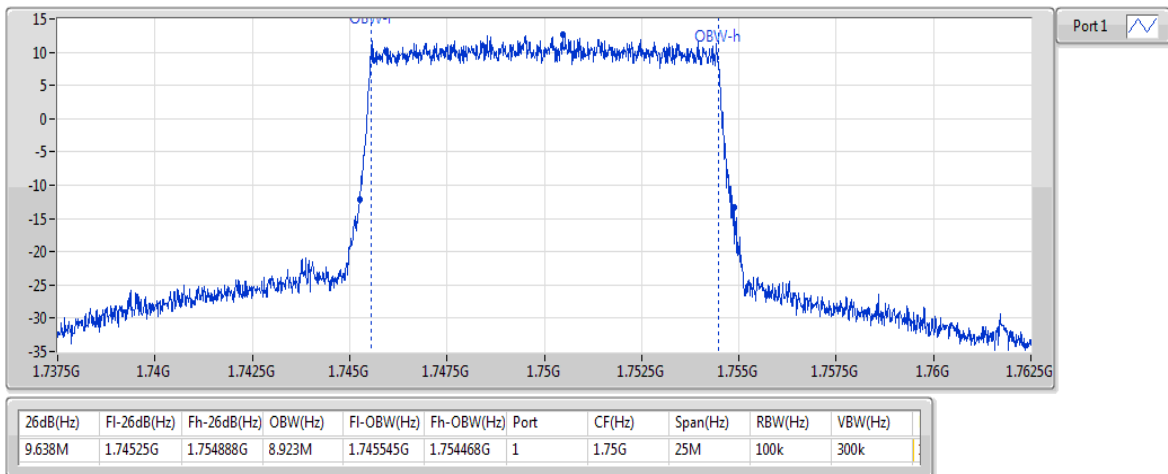
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Band 4_LTE_10MHz_Nss1,QPSK_1TX

EBW

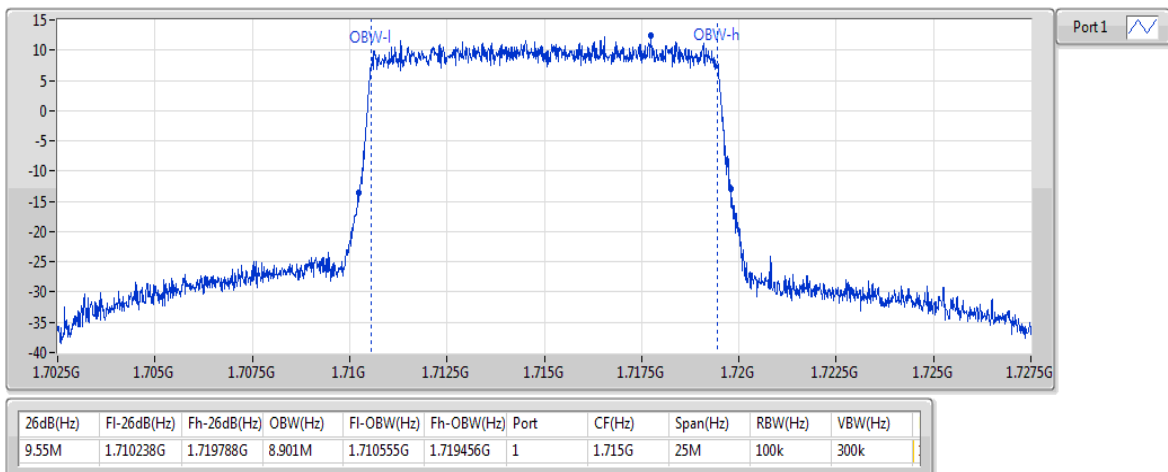
1750MHz_QPSK_RB 50,#RB 0



Band 4_LTE_10MHz_Nss1,16QAM_1TX

EBW

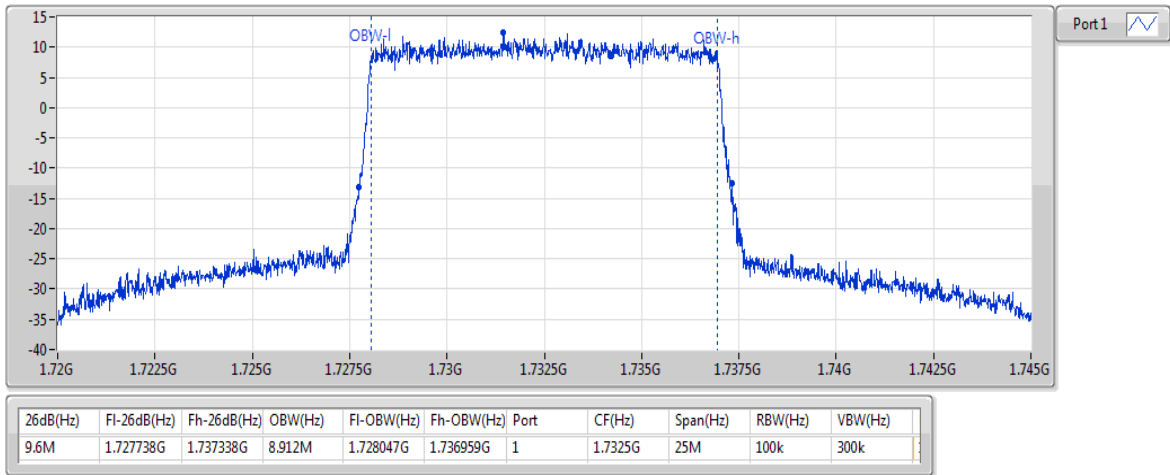
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Band 4_LTE_10MHz_Nss1,16QAM_1TX

EBW

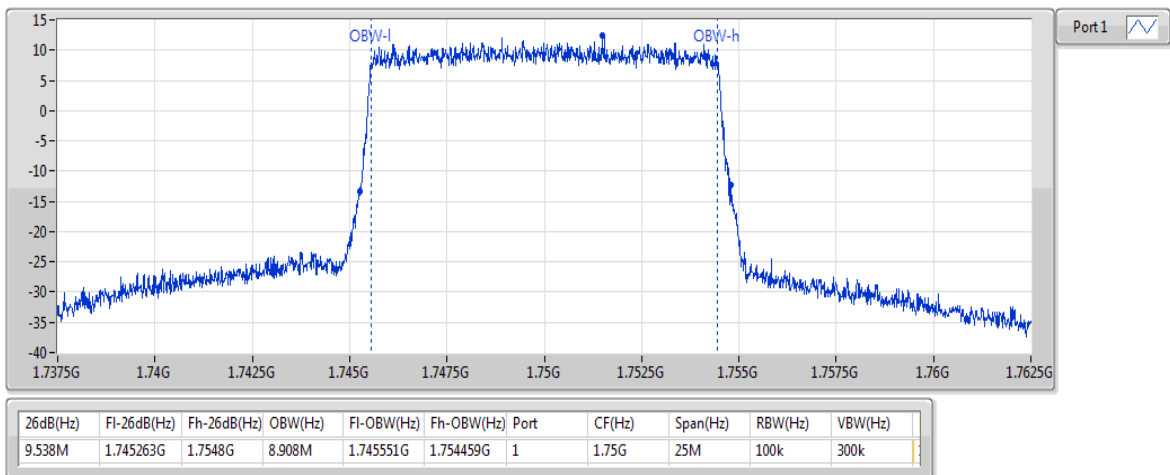
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Band 4_LTE_10MHz_Nss1,16QAM_1TX

EBW

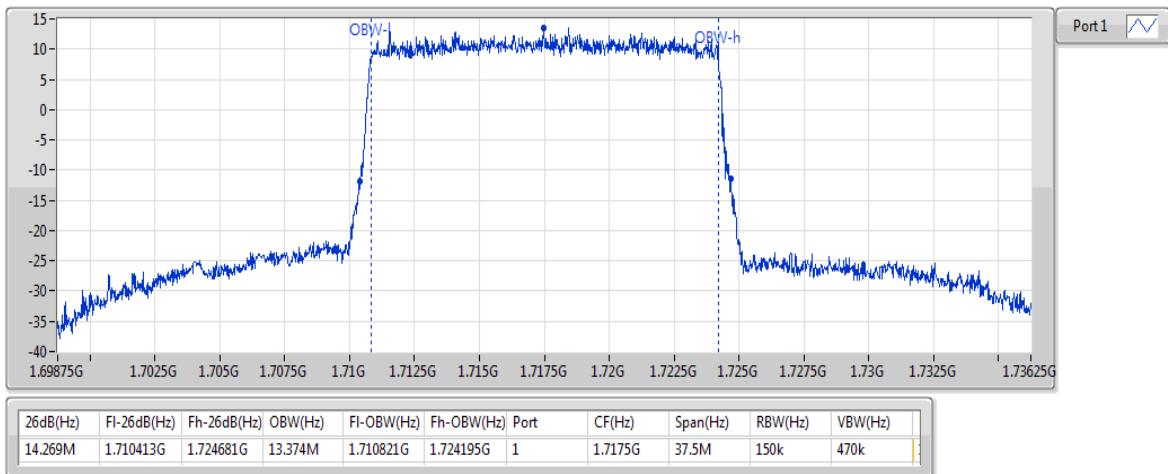
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Band 4_LTE_15MHz_Nss1,QPSK_1TX

EBW

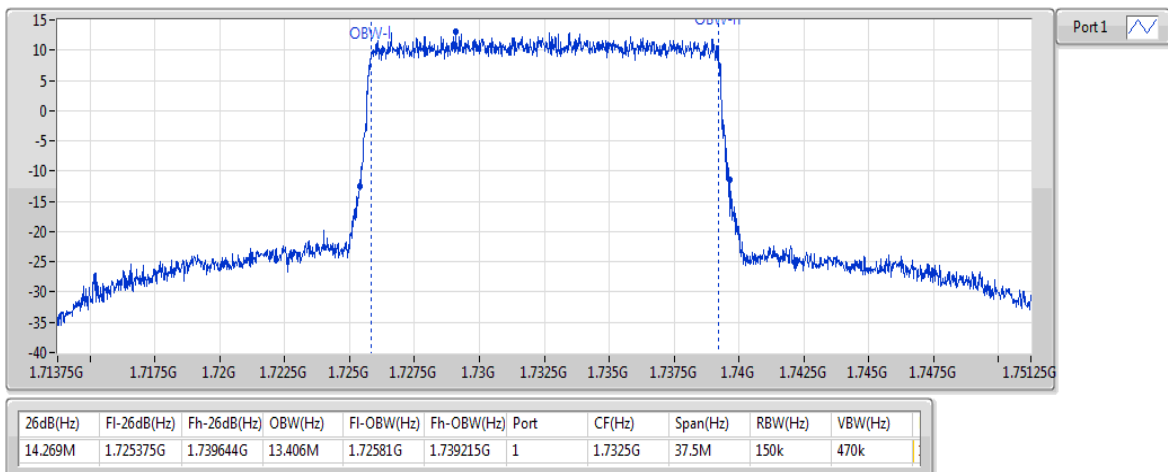
1717.5MHz_QPSK_RB 75,#RB 0



Band 4_LTE_15MHz_Nss1,QPSK_1TX

EBW

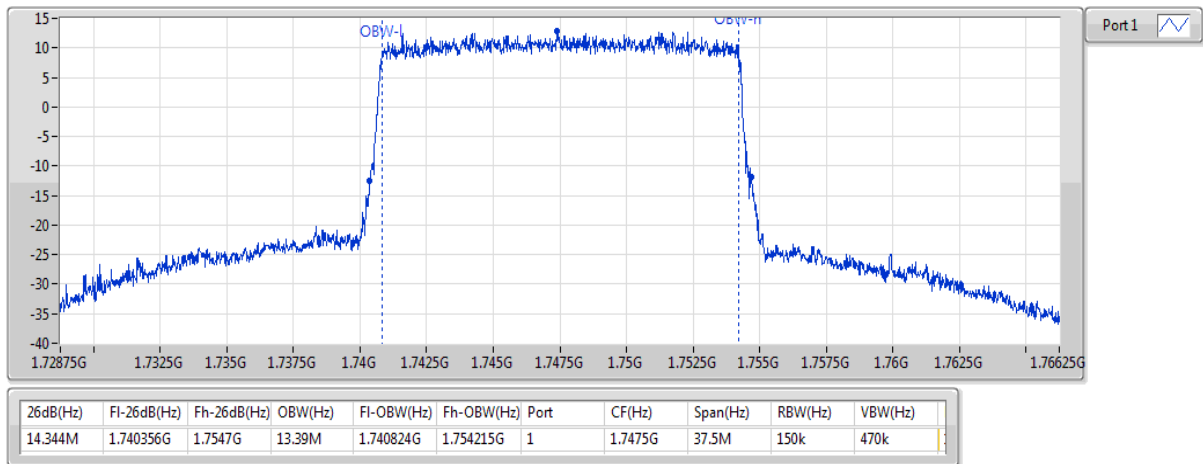
1732.5MHz_QPSK_RB 75,#RB 0



Band 4_LTE_15MHz_Nss1,QPSK_1TX

EBW

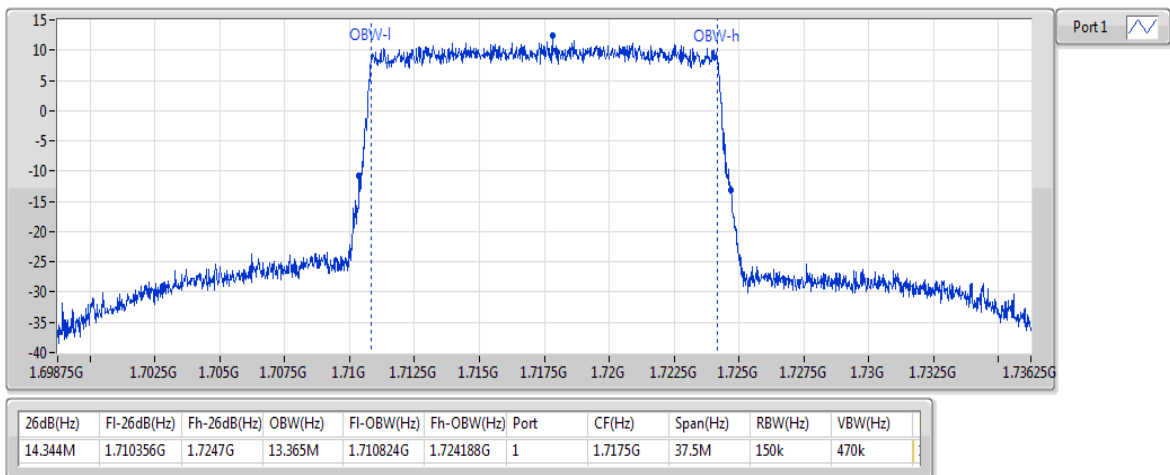
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Band 4_LTE_15MHz_Nss1,16QAM_1TX

EBW

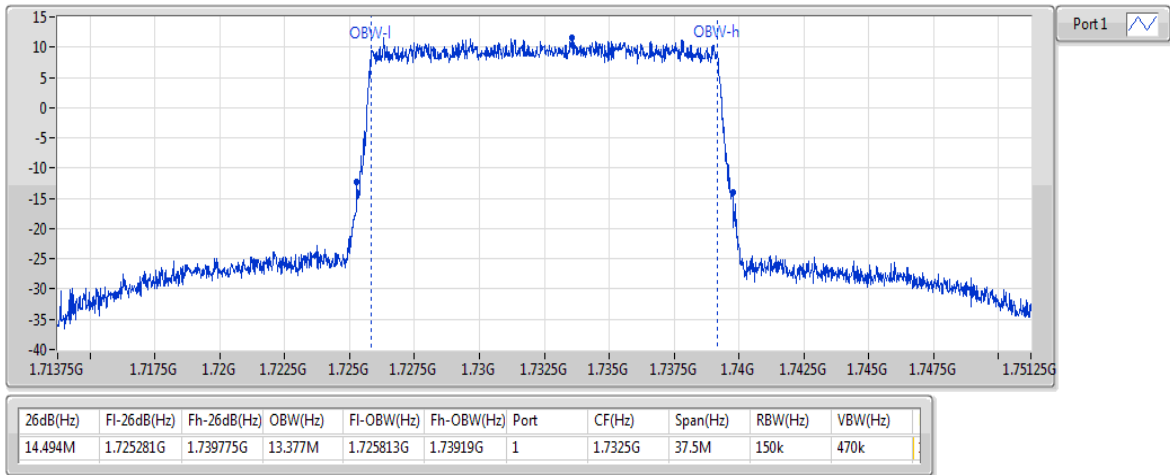
1717.5MHz_16QAM_RB 75,#RB 0



Band 4_LTE_15MHz_Nss1,16QAM_1TX

EBW

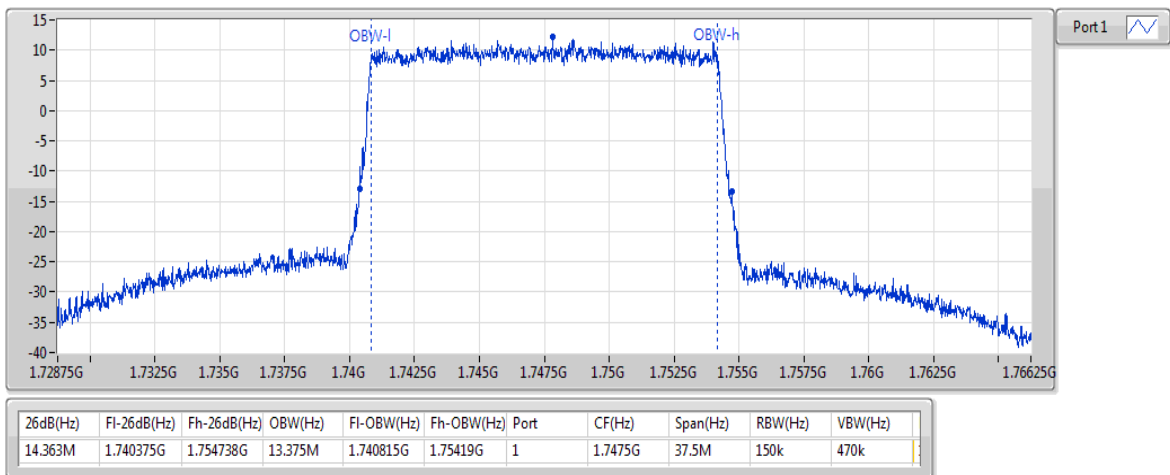
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Band 4_LTE_15MHz_Nss1,16QAM_1TX

EBW

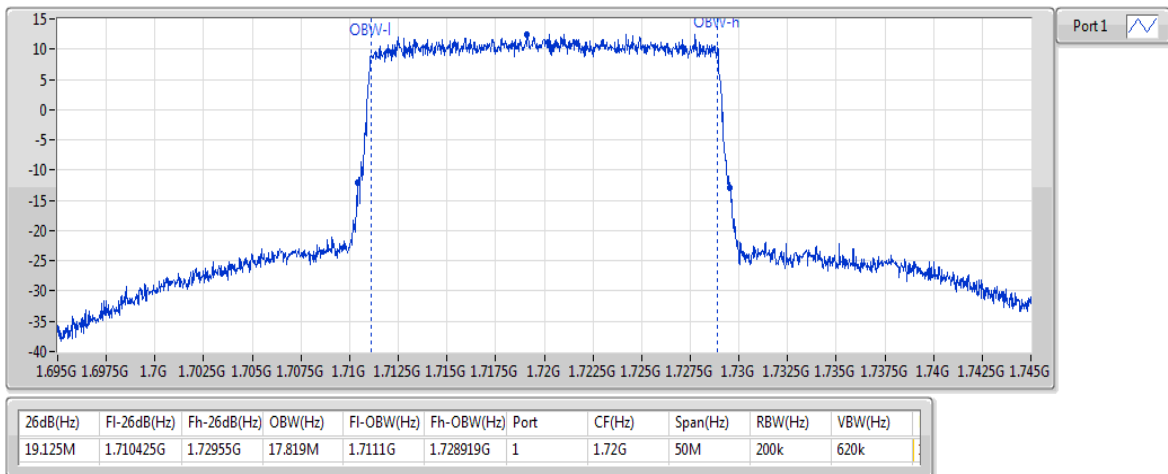
1747.5MHz_16QAM_RB 75,#RB 0



Band 4_LTE_20MHz_Nss1,QPSK_1TX

EBW

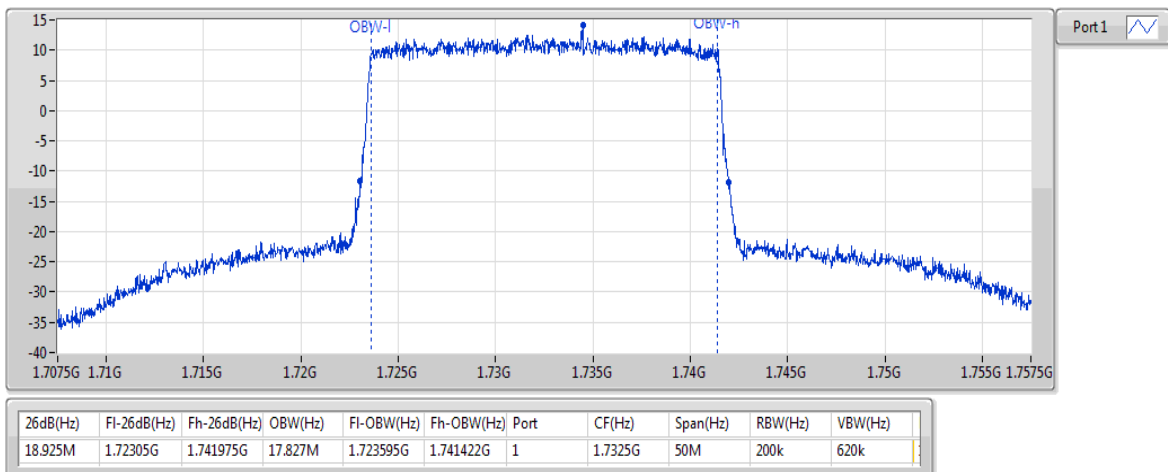
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Band 4_LTE_20MHz_Nss1,QPSK_1TX

EBW

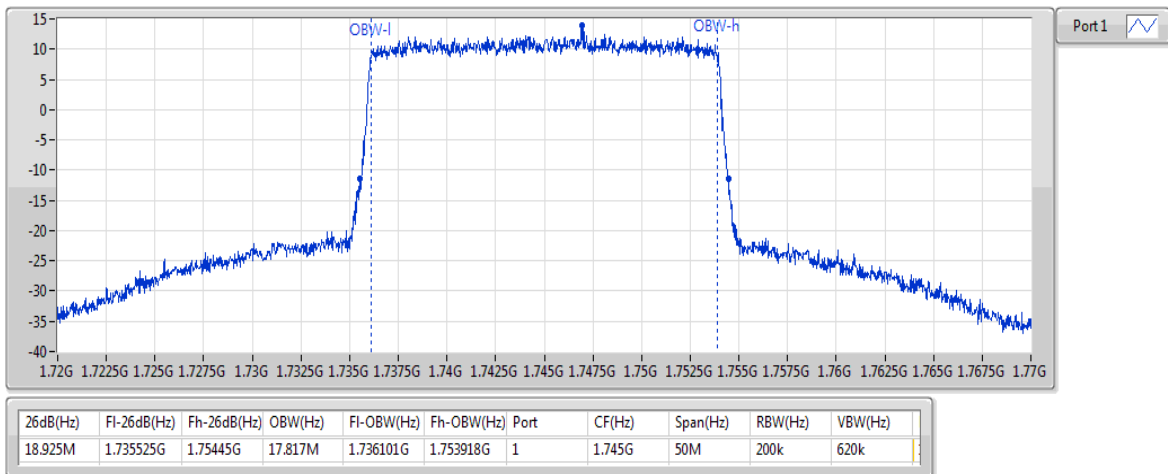
1732.5MHz_QPSK_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,QPSK_1TX

EBW

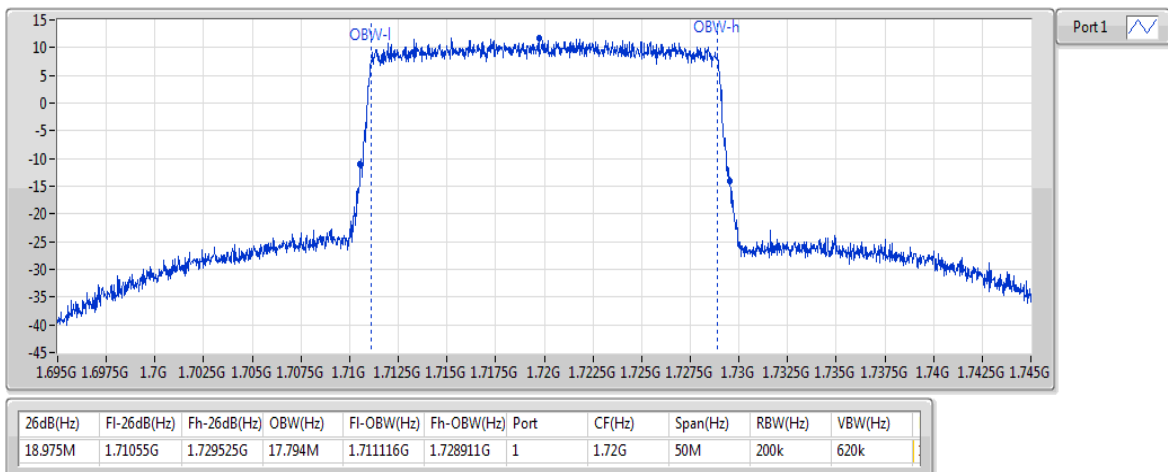
1745MHz_QPSK_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,16QAM_1TX

EBW

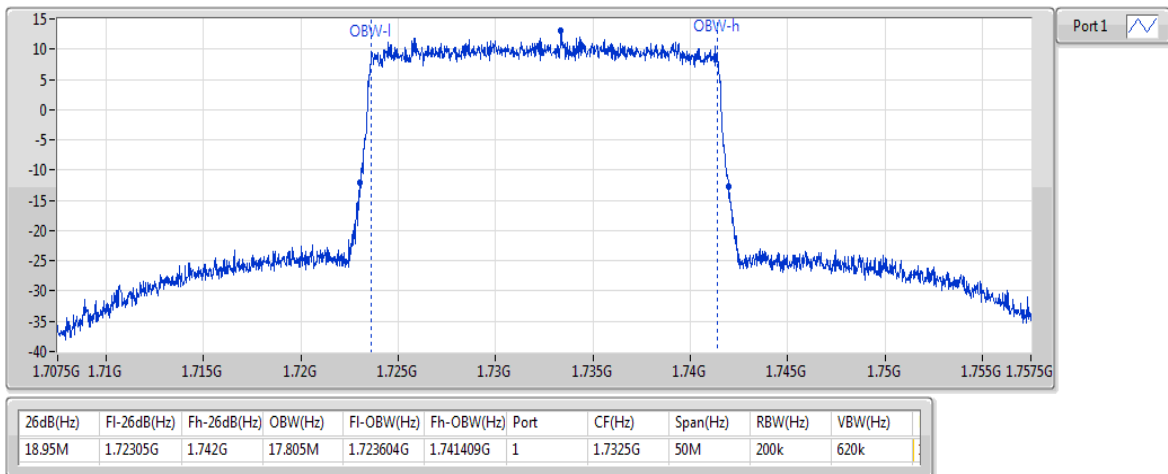
1720MHz_16QAM_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,16QAM_1TX

EBW

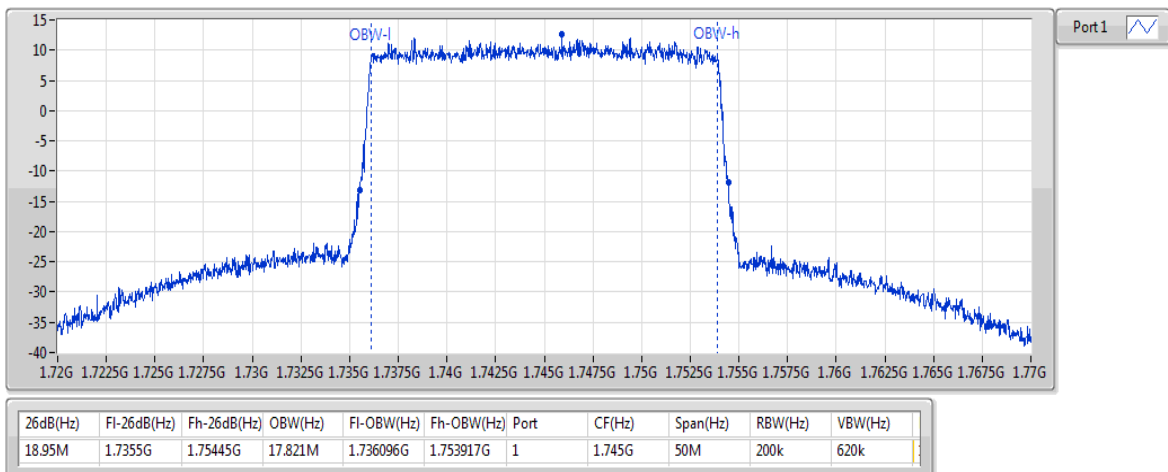
1732.5MHz_16QAM_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,16QAM_1TX

EBW

1745MHz_16QAM_RB 100,#RB 0



3.6 Peak to Average Ratio

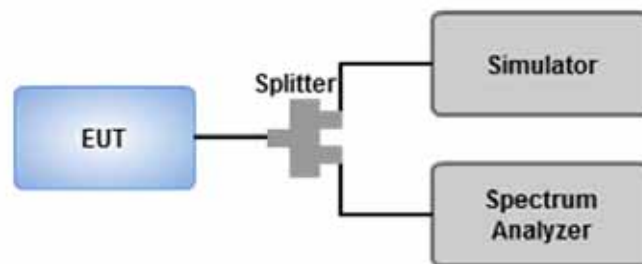
3.6.1 Limit of Peak to Average Ratio

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

3.6.2 Test Procedures

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

3.6.3 Test Setup



3.6.4 Test Result of Peak to Average Ratio

Summary

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 4	-	-	-	-	-
LTE_1.4MHz_Nss1,QPSK_1TX	Pass	1732.5	13.00	5.93	1
LTE_1.4MHz_Nss1,16QAM_1TX	Pass	1732.5	13.00	6.63	1
LTE_3MHz_Nss1,QPSK_1TX	Pass	1732.5	13.00	5.96	1
LTE_3MHz_Nss1,16QAM_1TX	Pass	1732.5	13.00	6.77	1
LTE_5MHz_Nss1,QPSK_1TX	Pass	1732.5	13.00	5.89	1
LTE_5MHz_Nss1,16QAM_1TX	Pass	1732.5	13.00	6.65	1
LTE_10MHz_Nss1,QPSK_1TX	Pass	1732.5	13.00	5.94	1
LTE_10MHz_Nss1,16QAM_1TX	Pass	1732.5	13.00	6.64	1
LTE_15MHz_Nss1,QPSK_1TX	Pass	1732.5	13.00	5.80	1
LTE_15MHz_Nss1,16QAM_1TX	Pass	1732.5	13.00	6.59	1
LTE_20MHz_Nss1,QPSK_1TX	Pass	1745	13.00	5.68	1
LTE_20MHz_Nss1,16QAM_1TX	Pass	1745	13.00	6.53	1

Result

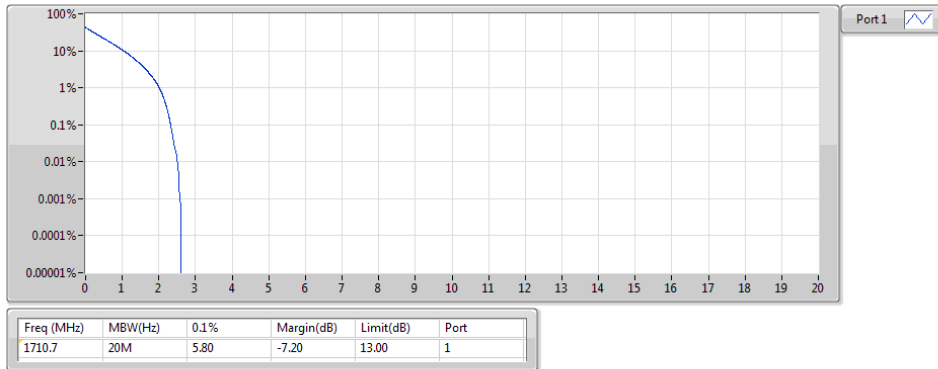
Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 4_LTE_1.4MHz_Nss1_1TX	-	-	-	-	-
1710.7MHz_QPSK_RB 6,#RB 0	Pass	1710.7	13.00	5.80	1
1732.5MHz_QPSK_RB 6,#RB 0	Pass	1732.5	13.00	5.93	1
1754.3MHz_QPSK_RB 6,#RB 0	Pass	1754.3	13.00	5.75	1
1710.7MHz_16QAM_RB 6,#RB 0	Pass	1710.7	13.00	6.55	1
1732.5MHz_16QAM_RB 6,#RB 0	Pass	1732.5	13.00	6.63	1
1754.3MHz_16QAM_RB 6,#RB 0	Pass	1754.3	13.00	6.52	1
Band 4_LTE_3MHz_Nss1_1TX	-	-	-	-	-
1711.5MHz_QPSK_RB 15,#RB 0	Pass	1711.5	13.00	5.86	1
1732.5MHz_QPSK_RB 15,#RB 0	Pass	1732.5	13.00	5.96	1
1753.5MHz_QPSK_RB 15,#RB 0	Pass	1753.5	13.00	5.79	1
1711.5MHz_16QAM_RB 15,#RB 0	Pass	1711.5	13.00	6.68	1
1732.5MHz_16QAM_RB 15,#RB 0	Pass	1732.5	13.00	6.77	1
1753.5MHz_16QAM_RB 15,#RB 0	Pass	1753.5	13.00	6.65	1
Band 4_LTE_5MHz_Nss1_1TX	-	-	-	-	-
1712.5MHz_QPSK_RB 25,#RB 0	Pass	1712.5	13.00	5.78	1
1732.5MHz_QPSK_RB 25,#RB 0	Pass	1732.5	13.00	5.89	1
1752.5MHz_QPSK_RB 25,#RB 0	Pass	1752.5	13.00	5.77	1
1712.5MHz_16QAM_RB 25,#RB 0	Pass	1712.5	13.00	6.52	1
1732.5MHz_16QAM_RB 25,#RB 0	Pass	1732.5	13.00	6.65	1
1752.5MHz_16QAM_RB 25,#RB 0	Pass	1752.5	13.00	6.53	1
Band 4_LTE_10MHz_Nss1_1TX	-	-	-	-	-
1715MHz_QPSK_RB 50,#RB 0	Pass	1715	13.00	5.81	1
1732.5MHz_QPSK_RB 50,#RB 0	Pass	1732.5	13.00	5.94	1
1750MHz_QPSK_RB 50,#RB 0	Pass	1750	13.00	5.86	1
1715MHz_16QAM_RB 50,#RB 0	Pass	1715	13.00	6.54	1
1732.5MHz_16QAM_RB 50,#RB 0	Pass	1732.5	13.00	6.64	1
1750MHz_16QAM_RB 50,#RB 0	Pass	1750	13.00	6.59	1
Band 4_LTE_15MHz_Nss1_1TX	-	-	-	-	-
1717.5MHz_QPSK_RB 75,#RB 0	Pass	1717.5	13.00	5.68	1
1732.5MHz_QPSK_RB 75,#RB 0	Pass	1732.5	13.00	5.80	1
1747.5MHz_QPSK_RB 75,#RB 0	Pass	1747.5	13.00	5.76	1
1717.5MHz_16QAM_RB 75,#RB 0	Pass	1717.5	13.00	6.48	1
1732.5MHz_16QAM_RB 75,#RB 0	Pass	1732.5	13.00	6.59	1
1747.5MHz_16QAM_RB 75,#RB 0	Pass	1747.5	13.00	6.55	1

Mode	Result	Freq (MHz)	Limit (dB)	0.1%	Port
Band 4_LTE_20MHz_Nss1_1TX	-	-	-	-	-
1720MHz_QPSK_RB 100,#RB 0	Pass	1720	13.00	5.59	1
1732.5MHz_QPSK_RB 100,#RB 0	Pass	1732.5	13.00	5.67	1
1745MHz_QPSK_RB 100,#RB 0	Pass	1745	13.00	5.68	1
1720MHz_16QAM_RB 100,#RB 0	Pass	1720	13.00	6.43	1
1732.5MHz_16QAM_RB 100,#RB 0	Pass	1732.5	13.00	6.50	1
1745MHz_16QAM_RB 100,#RB 0	Pass	1745	13.00	6.53	1

Band 4_LTE_1.4MHz_Nss1,QPSK_1TX

PAR

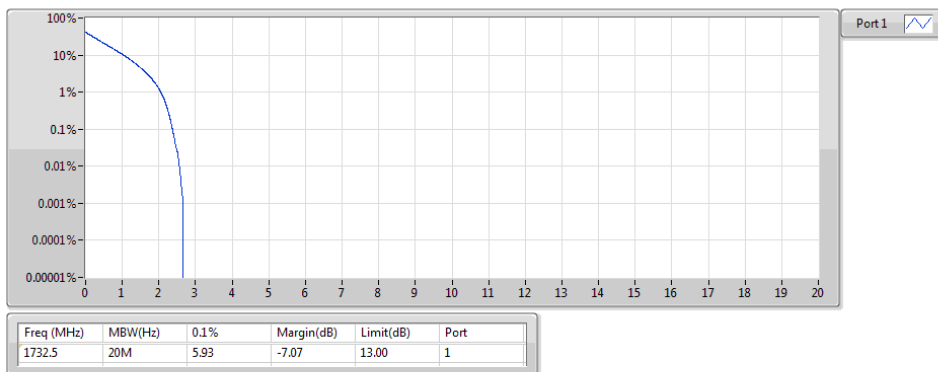
1710.7MHz_QPSK_RB 6,#RB 0



Band 4_LTE_1.4MHz_Nss1,QPSK_1TX

PAR

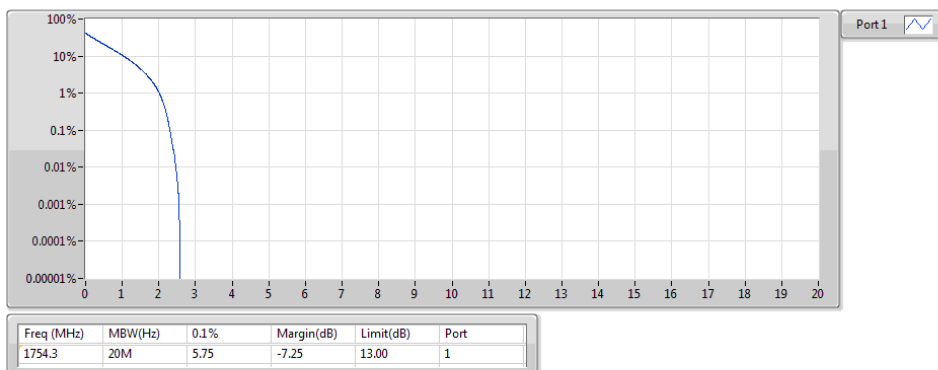
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Band 4_LTE_1.4MHz_Nss1,QPSK_1TX

PAR

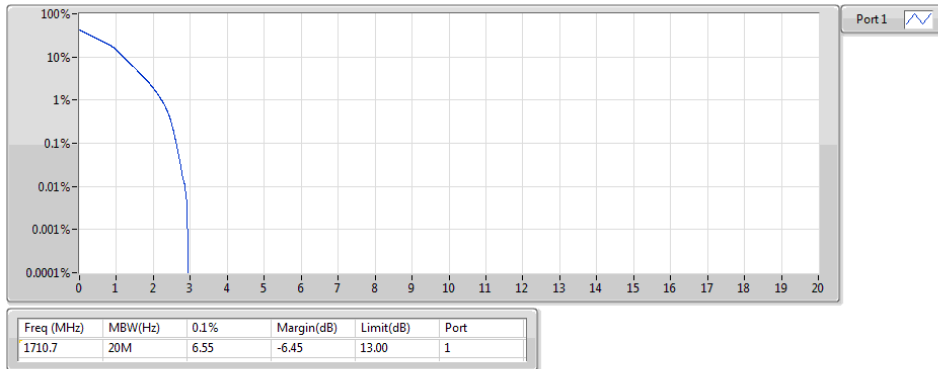
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Band 4_LTE_1.4MHz_Nss1,16QAM_1TX

PAR

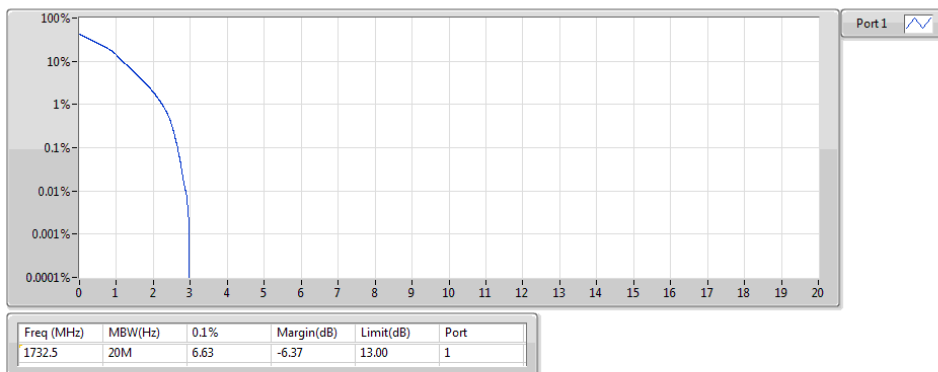
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Band 4_LTE_1.4MHz_Nss1,16QAM_1TX

PAR

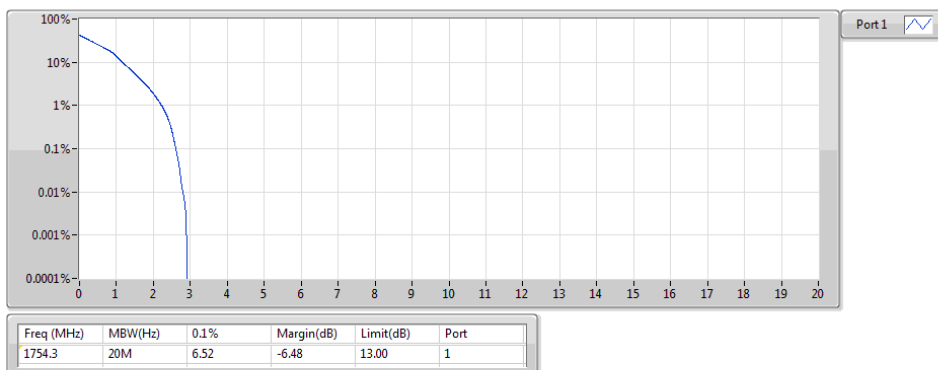
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Band 4_LTE_1.4MHz_Nss1,16QAM_1TX

PAR

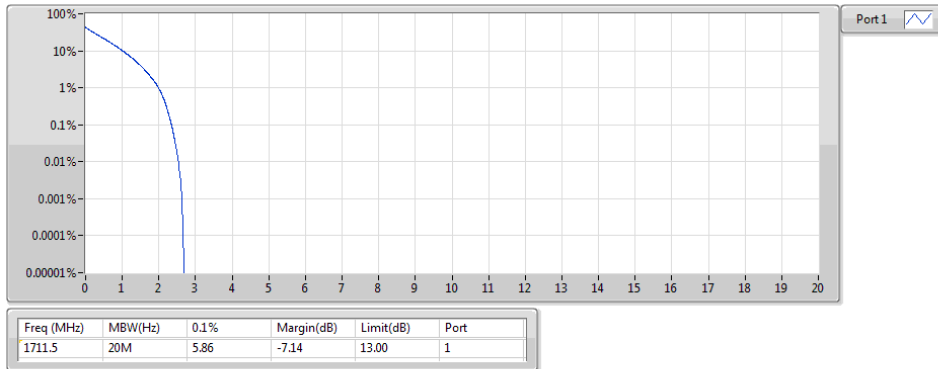
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Band 4_LTE_3MHz_Nss1,QPSK_1TX

PAR

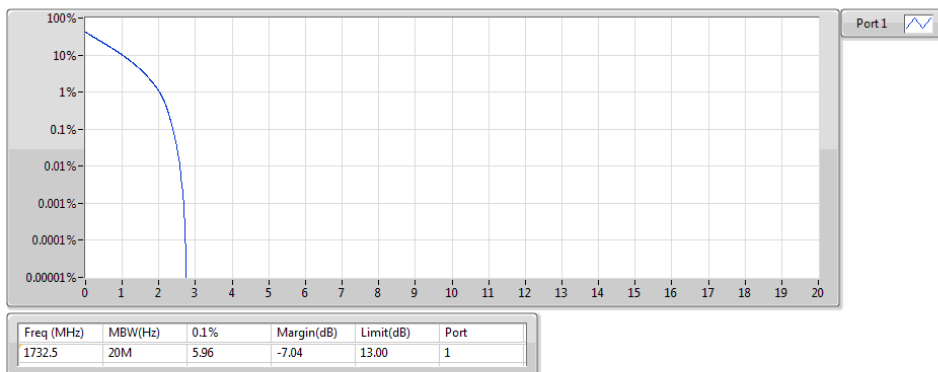
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Band 4_LTE_3MHz_Nss1,QPSK_1TX

PAR

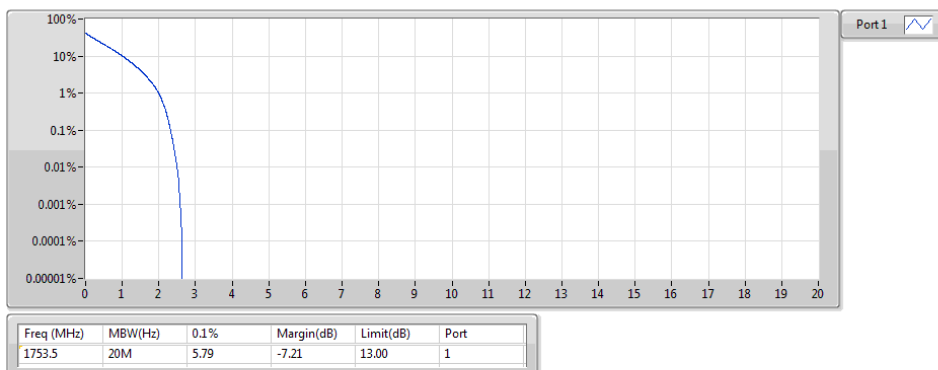
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Band 4_LTE_3MHz_Nss1,QPSK_1TX

PAR

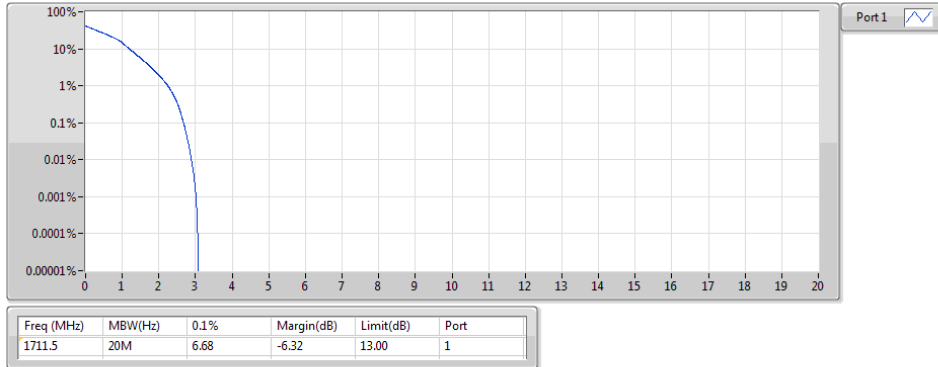
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Band 4_LTE_3MHz_Nss1,16QAM_1TX

PAR

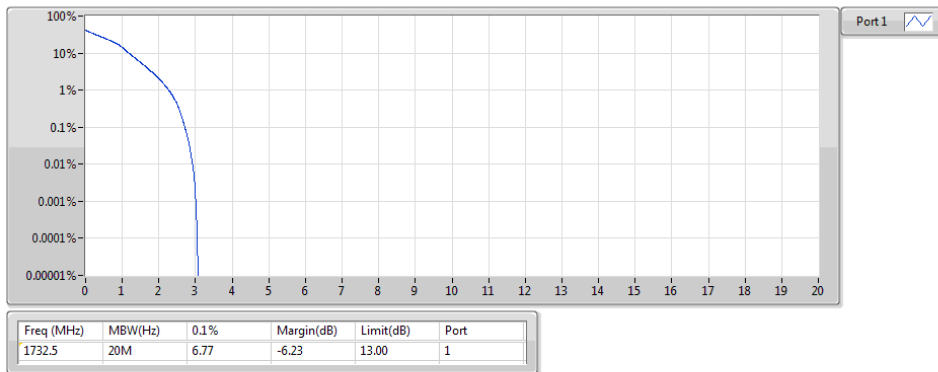
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Band 4_LTE_3MHz_Nss1,16QAM_1TX

PAR

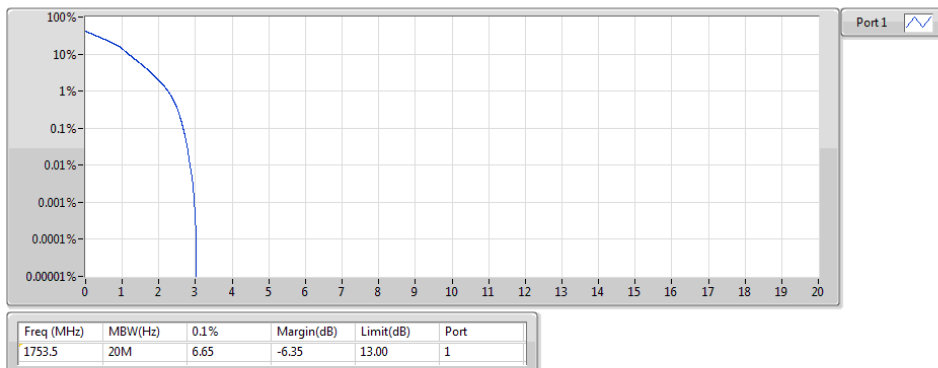
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Band 4_LTE_3MHz_Nss1,16QAM_1TX

PAR

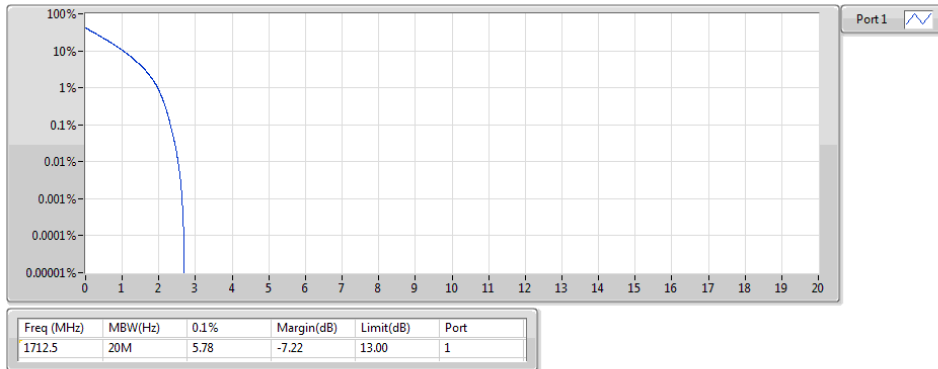
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Band 4_LTE_5MHz_Nss1,QPSK_1TX

PAR

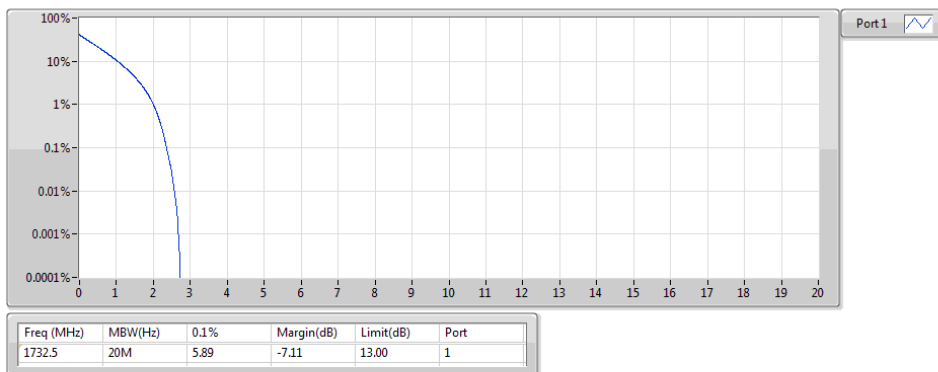
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Band 4_LTE_5MHz_Nss1,QPSK_1TX

PAR

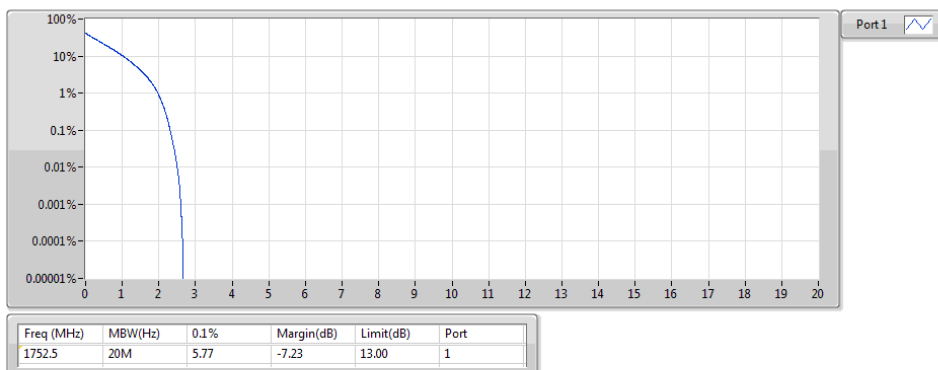
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Band 4_LTE_5MHz_Nss1,QPSK_1TX

PAR

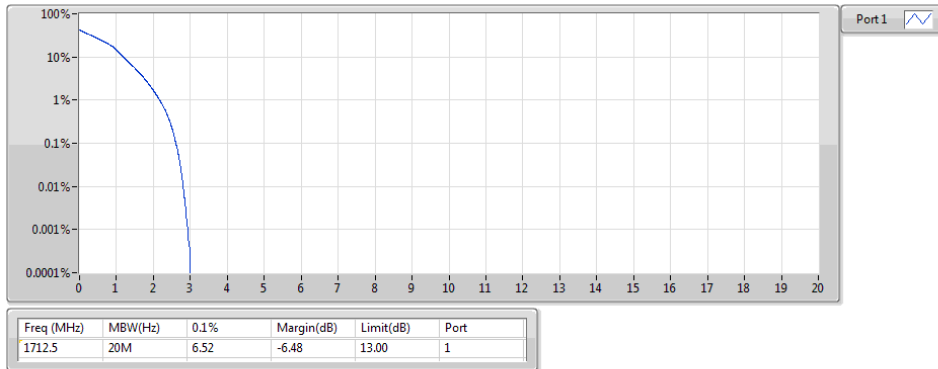
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Band 4_LTE_5MHz_Nss1,16QAM_1TX

PAR

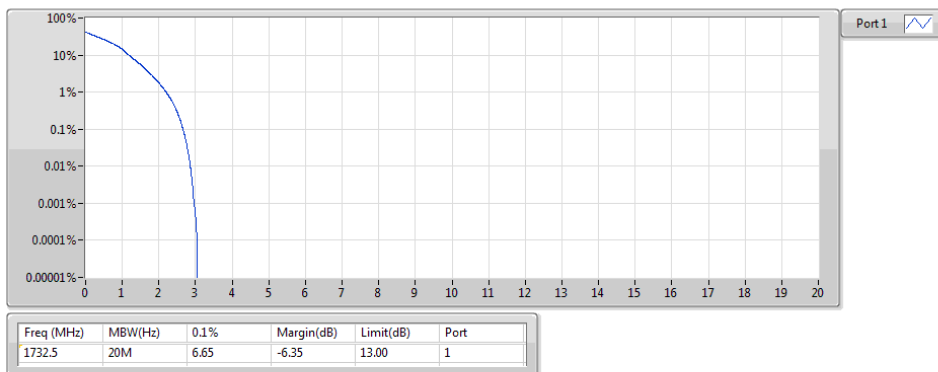
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Band 4_LTE_5MHz_Nss1,16QAM_1TX

PAR

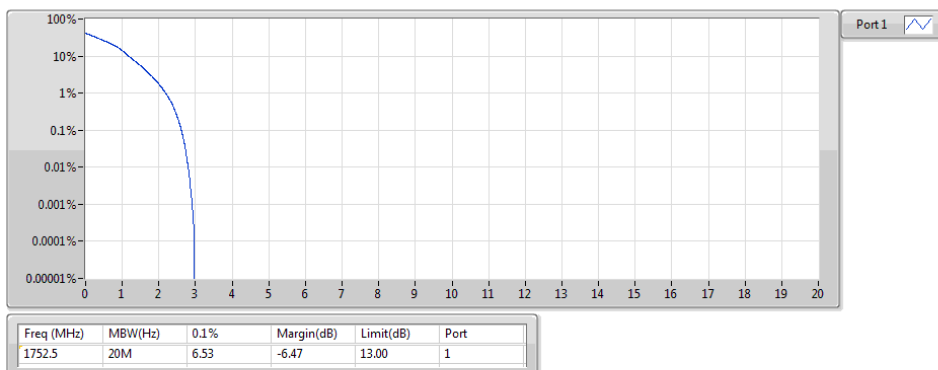
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Band 4_LTE_5MHz_Nss1,16QAM_1TX

PAR

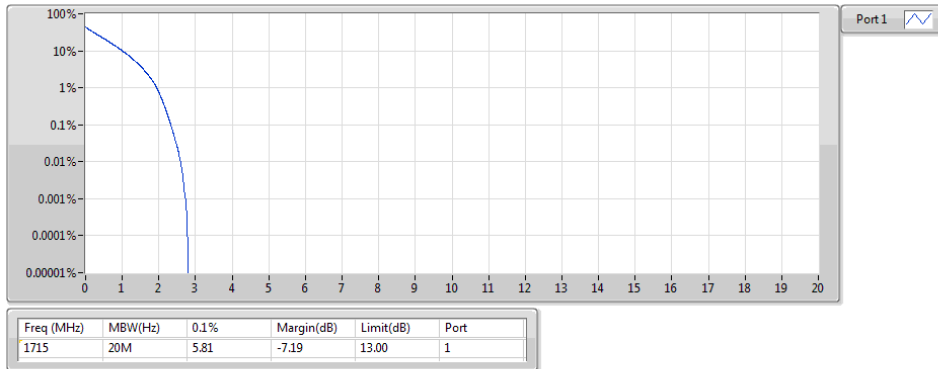
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Band 4_LTE_10MHz_Nss1,QPSK_1TX

PAR

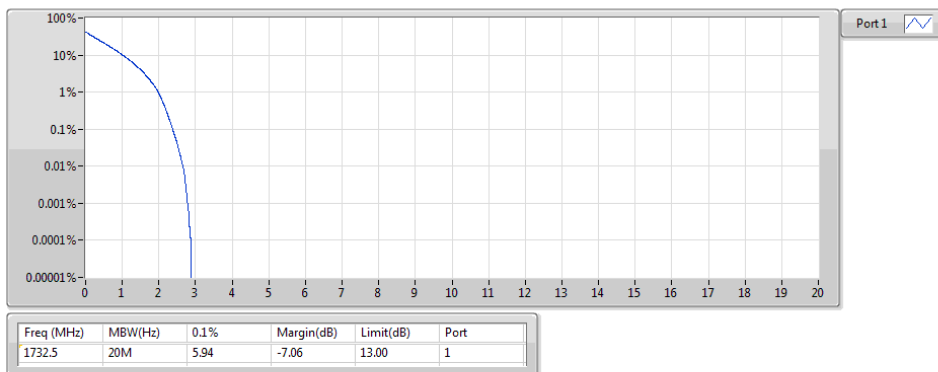
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Band 4_LTE_10MHz_Nss1,QPSK_1TX

PAR

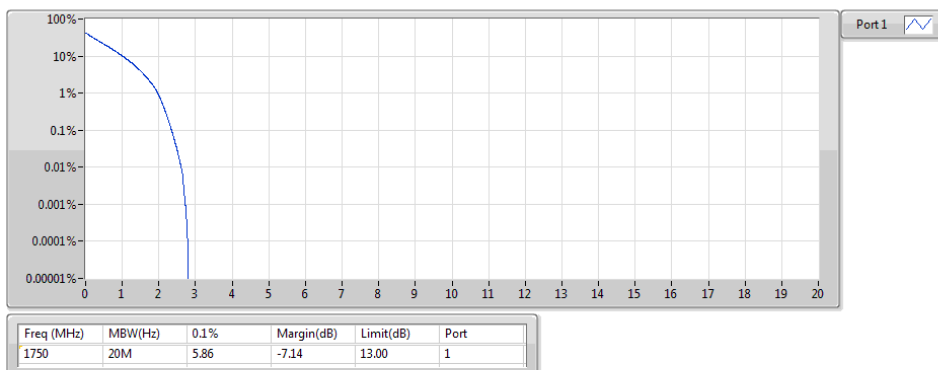
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Band 4_LTE_10MHz_Nss1,QPSK_1TX

PAR

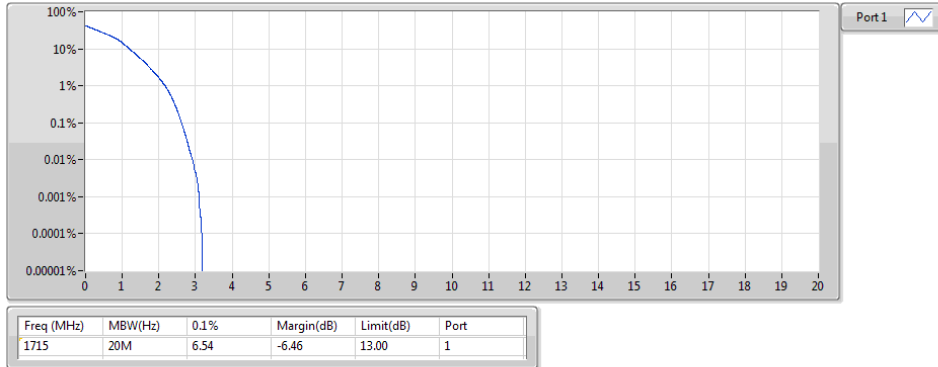
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Band 4_LTE_10MHz_Nss1,16QAM_1TX

PAR

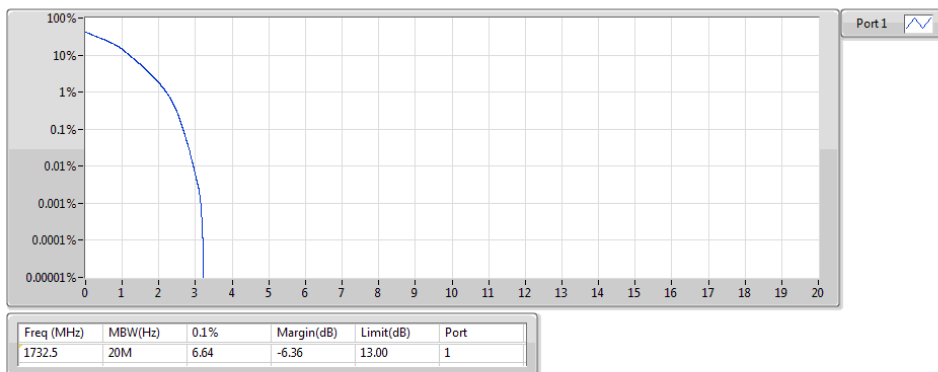
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Band 4_LTE_10MHz_Nss1,16QAM_1TX

PAR

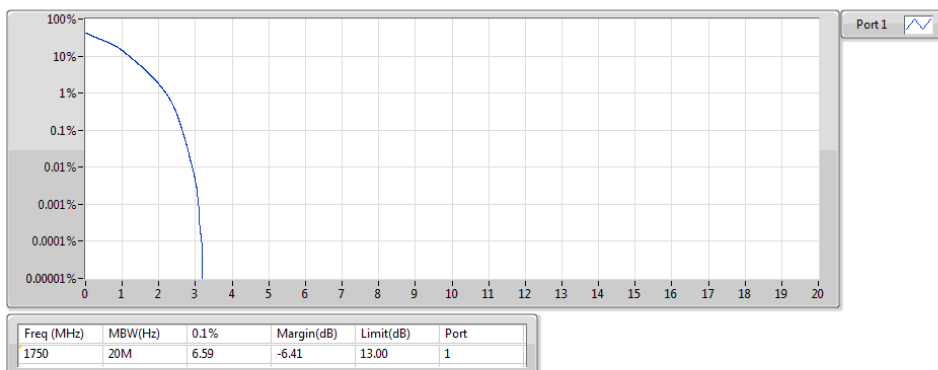
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Band 4_LTE_10MHz_Nss1,16QAM_1TX

PAR

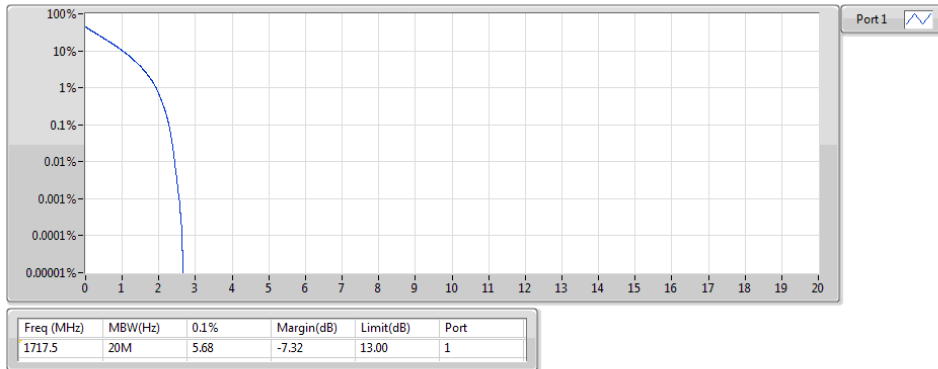
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Band 4_LTE_15MHz_Nss1,QPSK_1TX

PAR

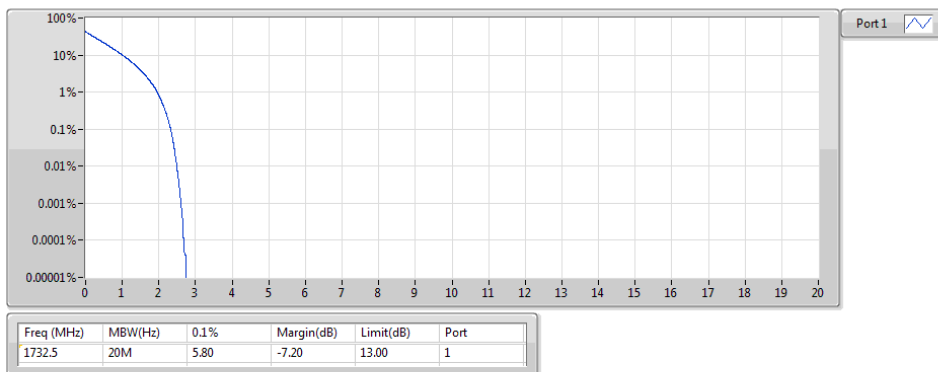
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Band 4_LTE_15MHz_Nss1,QPSK_1TX

PAR

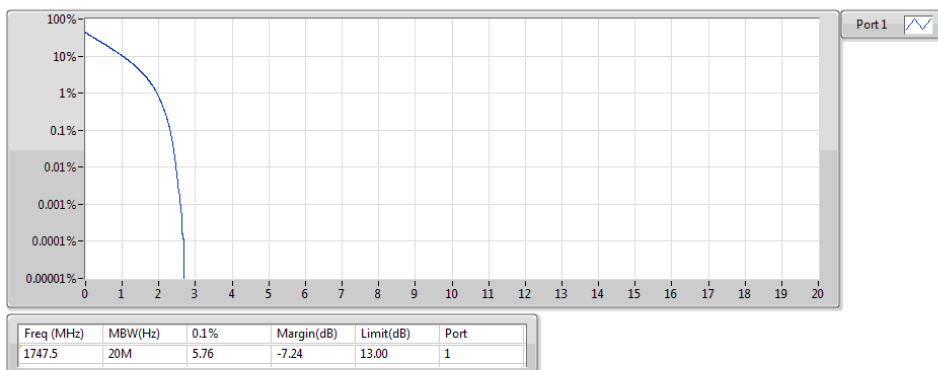
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Band 4_LTE_15MHz_Nss1,QPSK_1TX

PAR

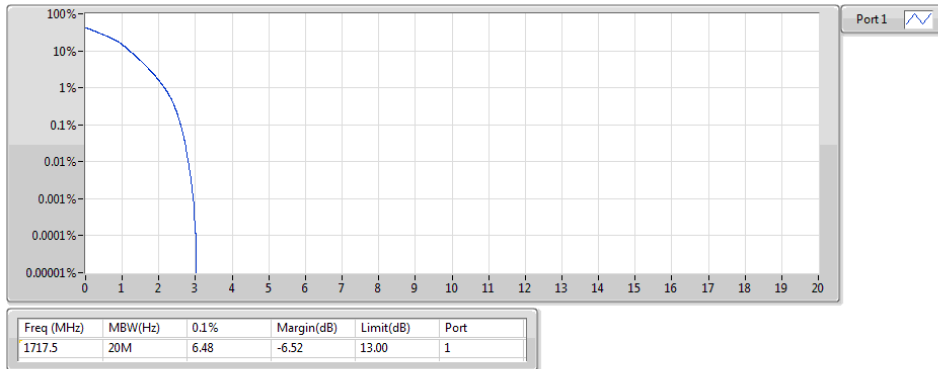
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Band 4_LTE_15MHz_Nss1,16QAM_1TX

PAR

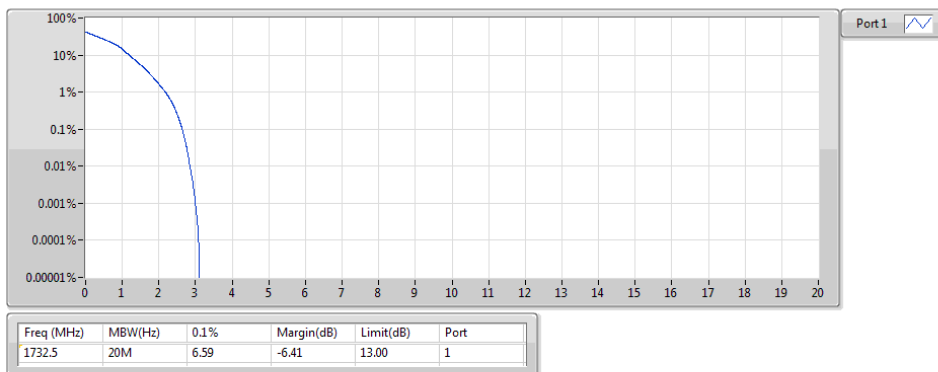
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Band 4_LTE_15MHz_Nss1,16QAM_1TX

PAR

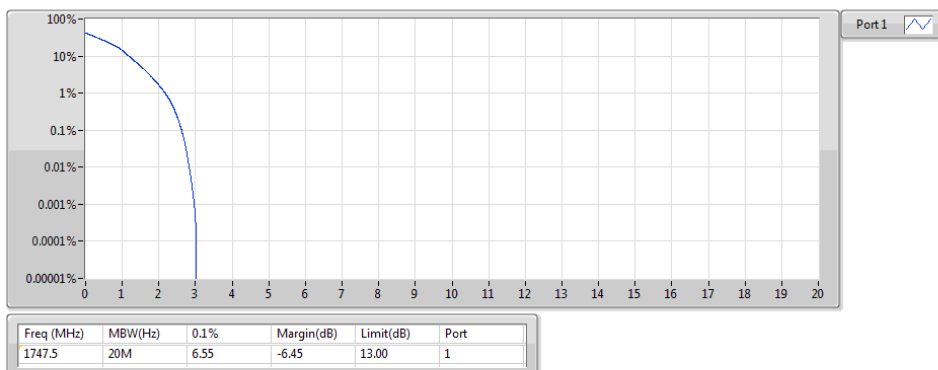
1732.5MHz_16QAM_RB 75,#RB 0



Band 4_LTE_15MHz_Nss1,16QAM_1TX

PAR

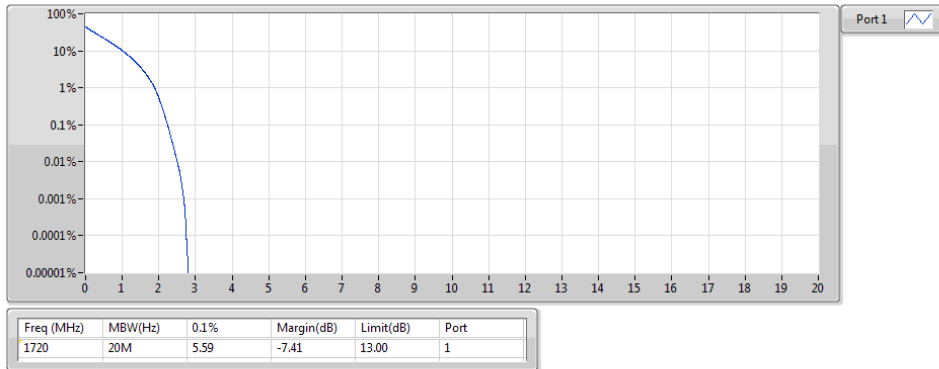
1747.5MHz_16QAM_RB 75,#RB 0



Band 4_LTE_20MHz_Nss1,QPSK_1TX

PAR

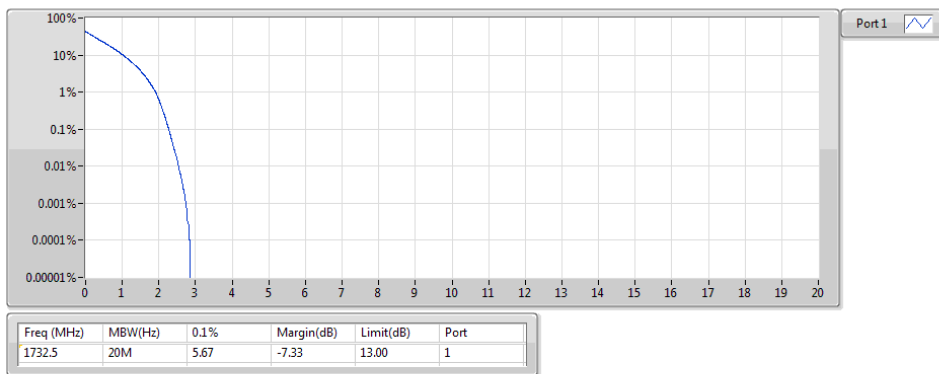
1720MHz_QPSK_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,QPSK_1TX

PAR

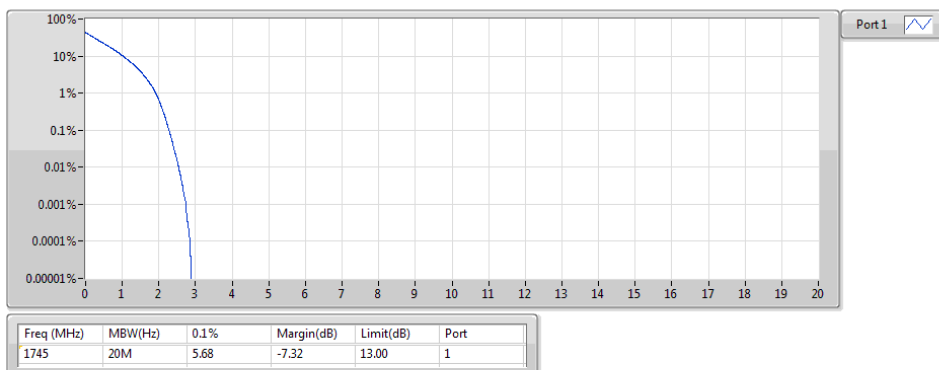
1732.5MHz_QPSK_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,QPSK_1TX

PAR

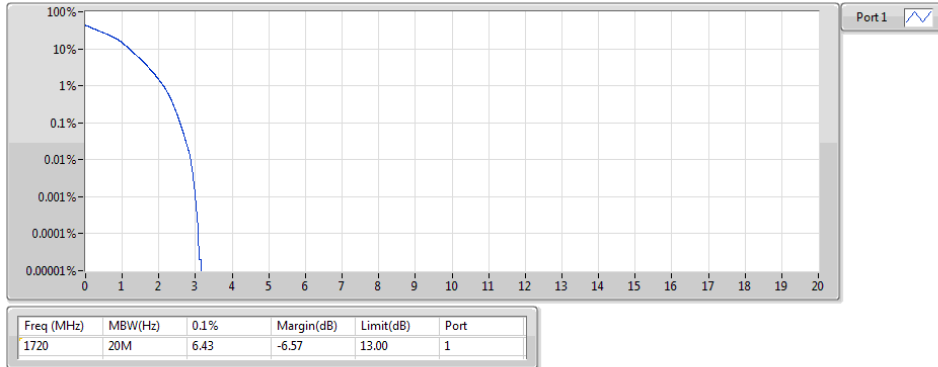
1745MHz_QPSK_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,16QAM_1TX

PAR

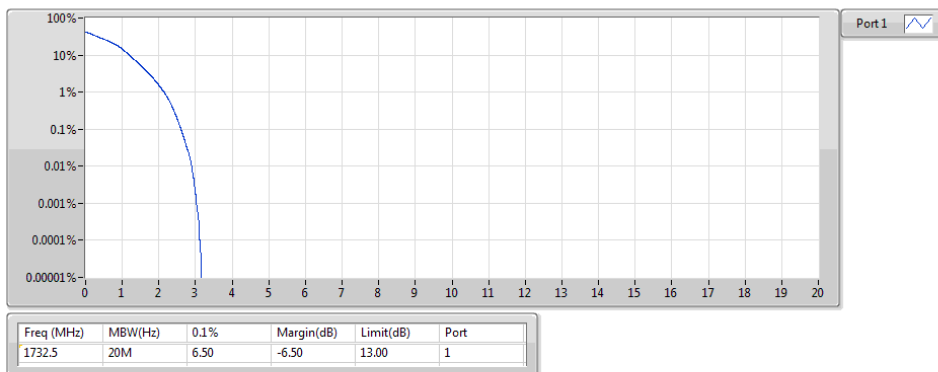
1720MHz_16QAM_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,16QAM_1TX

PAR

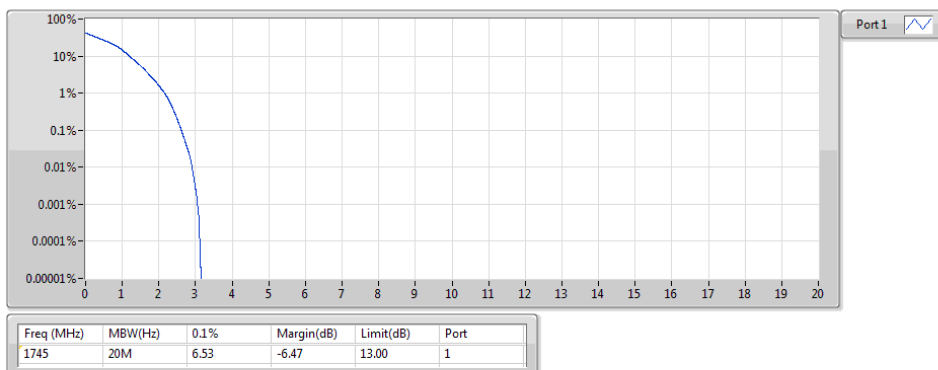
1732.5MHz_16QAM_RB 100,#RB 0



Band 4_LTE_20MHz_Nss1,16QAM_1TX

PAR

1745MHz_16QAM_RB 100,#RB 0



3.7 Frequency Stability

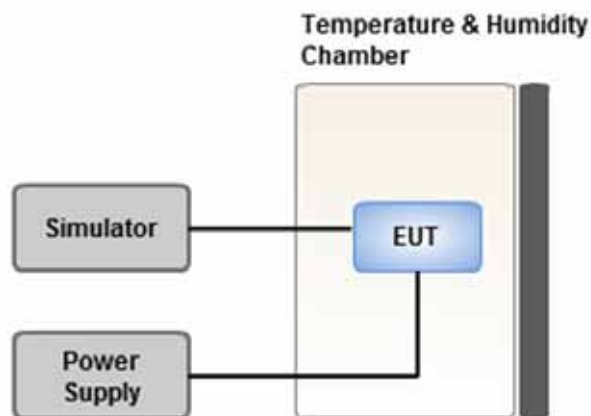
3.7.1 Limit of Frequency Stability

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

3.7.2 Test Procedures

1. EUT was placed at temperature chamber and connected to an external power supply.
2. Temperature and voltage condition shall be tested to confirm frequency stability.
3. Temperature range is from -30~50°C and voltage range is from lowest to highest working voltage.
4. Tem Link up EUT and simulator. Confirm frequency drift value of simulator and record it.

3.7.3 Test Setup



3.7.4 Test Result of Frequency Stability

CB: 1.4MHz				
Temperature (°C)	1710.7MHz		1754.3MHz	
	Frequency Drift (ppm)	F _L (MHz)	Frequency Drift (ppm)	F _H (MHz)
T20°C Vmax	0.003	1710.157005	0.003	1754.843006
T20°C Vmin	0.002	1710.157004	0.003	1754.843005
T70°C Vnom	0.003	1710.157005	0.003	1754.843006
T60°C Vnom	0.003	1710.157005	0.002	1754.843003
T50°C Vnom	0.002	1710.157004	0.002	1754.843004
T40°C Vnom	0.002	1710.157003	0.003	1754.843006
T30°C Vnom	0.003	1710.157005	0.002	1754.843004
T20°C Vnom	0.002	1710.157004	0.003	1754.843005
T10°C Vnom	0.003	1710.157005	0.002	1754.843004
T0°C Vnom	0.002	1710.157003	0.002	1754.843004
T-10°C Vnom	0.002	1710.157004	0.002	1754.843003
T-20°C Vnom	0.003	1710.157005	0.002	1754.843003
T-30°C Vnom	0.003	1710.157005	0.003	1754.843005
T-40°C Vnom	0.004	1710.157006	0.003	1754.843005
Limit	>1710MHz		<1755MHz	

CB: 3MHz

Temperature (°C)	1711.5MHz		1753.5MHz	
	Frequency Drift (ppm)	F _L (MHz)	Frequency Drift (ppm)	F _H (MHz)
T20°CVmax	0.002	1710.159004	0.003	1754.841005
T20°CVmin	0.003	1710.159005	0.003	1754.841006
T70°CVnom	0.002	1710.159004	0.003	1754.841005
T60°CVnom	0.002	1710.159003	0.002	1754.841004
T50°CVnom	0.002	1710.159004	0.003	1754.841006
T40°CVnom	0.003	1710.159005	0.003	1754.841006
T30°CVnom	0.002	1710.159004	0.004	1754.841007
T20°CVnom	0.002	1710.159003	0.003	1754.841005
T10°CVnom	0.004	1710.159006	0.003	1754.841006
T0°CVnom	0.002	1710.159004	0.004	1754.841007
T-10°CVnom	0.003	1710.159005	0.003	1754.841006
T-20°CVnom	0.004	1710.159007	0.003	1754.841005
T-30°CVnom	0.005	1710.159008	0.003	1754.841006
T-40°CVnom	0.004	1710.159006	0.004	1754.841007
Limit	>1710MHz		<1755MHz	

CB: 5MHz

Temperature (°C)	1712.5MHz		1752.5MHz	
	Frequency Drift (ppm)	F _L (MHz)	Frequency Drift (ppm)	F _H (MHz)
T20°CVmax	0.002	1710.265006	0.003	1754.734005
T20°CVmin	0.003	1710.265005	0.003	1754.734006
T70°CVnom	0.002	1710.265004	0.003	1754.734005
T60°CVnom	0.002	1710.265003	0.002	1754.734004
T50°CVnom	0.002	1710.265005	0.002	1754.734003
T40°CVnom	0.003	1710.265004	0.003	1754.734005
T30°CVnom	0.002	1710.265006	0.003	1754.734005
T20°CVnom	0.002	1710.265005	0.002	1754.734004
T10°CVnom	0.004	1710.265004	0.002	1754.734003
T0°CVnom	0.002	1710.265005	0.003	1754.734006
T-10°CVnom	0.003	1710.265004	0.003	1754.734006
T-20°CVnom	0.004	1710.265003	0.003	1754.734005
T-30°CVnom	0.005	1710.265006	0.002	1754.734004
T-40°CVnom	0.004	1710.265006	0.003	1754.734005
Limit	>1710MHz		<1755MHz	

CB: 10MHz

Temperature (°C)	1715MHz		1750MHz	
	Frequency Drift (ppm)	F _L (MHz)	Frequency Drift (ppm)	F _H (MHz)
T20°CVmax	0.002	1710.545006	0.003	1754.468005
T20°CVmin	0.003	1710.545006	0.003	1754.468006
T70°CVnom	0.002	1710.545005	0.003	1754.468005
T60°CVnom	0.002	1710.545005	0.003	1754.468006
T50°CVnom	0.002	1710.545004	0.003	1754.468005
T40°CVnom	0.003	1710.545006	0.002	1754.468004
T30°CVnom	0.002	1710.545006	0.002	1754.468003
T20°CVnom	0.002	1710.545005	0.003	1754.468005
T10°CVnom	0.003	1710.545004	0.003	1754.468005
T0°CVnom	0.002	1710.545003	0.002	1754.468003
T-10°CVnom	0.003	1710.545005	0.002	1754.468004
T-20°CVnom	0.004	1710.545004	0.002	1754.468003
T-30°CVnom	0.005	1710.545004	0.003	1754.468005
T-40°CVnom	0.003	1710.545004	0.002	1754.468004
Limit	>1710MHz		<1755MHz	

CB: 15MHz				
Temperature (°C)	1717.5MHz		1747.5MHz	
	Frequency Drift (ppm)	F _L (MHz)	Frequency Drift (ppm)	F _H (MHz)
T20°CVmax	0.002	1710.821005	0.003	1754.215006
T20°CVmin	0.003	1710.821005	0.003	1754.215005
T70°CVnom	0.002	1710.821004	0.003	1754.215005
T60°CVnom	0.002	1710.821006	0.003	1754.215005
T50°CVnom	0.002	1710.821005	0.003	1754.215006
T40°CVnom	0.003	1710.821004	0.002	1754.215004
T30°CVnom	0.002	1710.821006	0.003	1754.215005
T20°CVnom	0.002	1710.821005	0.002	1754.215004
T10°CVnom	0.003	1710.821004	0.003	1754.215005
T0°CVnom	0.002	1710.821006	0.003	1754.215005
T-10°CVnom	0.003	1710.821006	0.002	1754.215004
T-20°CVnom	0.004	1710.821004	0.003	1754.215006
T-30°CVnom	0.005	1710.821005	0.003	1754.215006
T-40°CVnom	0.003	1710.821004	0.004	1754.215007
Limit	>1710MHz		<1755MHz	

CB: 20MHz

Temperature (°C)	1720MHz		1745MHz	
	Frequency Drift (ppm)	F _L (MHz)	Frequency Drift (ppm)	F _H (MHz)
T20°CVmax	0.002	1711.100006	0.003	1753.918005
T20°CVmin	0.003	1711.100005	0.003	1753.918005
T70°CVnom	0.002	1711.100005	0.002	1753.918004
T60°CVnom	0.002	1711.100004	0.002	1753.918003
T50°CVnom	0.002	1711.100005	0.003	1753.918006
T40°CVnom	0.003	1711.100006	0.003	1753.918005
T30°CVnom	0.002	1711.100007	0.002	1753.918004
T20°CVnom	0.002	1711.100005	0.003	1753.918006
T10°CVnom	0.003	1711.100006	0.004	1753.918007
T0°CVnom	0.002	1711.100005	0.003	1753.918005
T-10°CVnom	0.003	1711.100006	0.003	1753.918006
T-20°CVnom	0.004	1711.100007	0.003	1753.918006
T-30°CVnom	0.005	1711.100005	0.003	1753.918005
T-40°CVnom	0.003	1711.100005	0.002	1753.918004
Limit	>1710MHz		<1755MHz	

4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

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