

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H AND 24 SUBPART E AND 27 SUBPART C &
SUBPART L REQUIREMENT

OF

Product Name: Tablet PC

Brand Name: hp

Model No.: TPN-Q165

Model Difference: N/A

FCC ID: B94TNQ165SPFR

Report No.: E2/2015/70003

Issue Date: Aug. 03, 2015

FCC Rule Part: 2 , 22H & 24E & 27C & L

Prepared for: Hewlett-Packard Company
 1501 Page Mill Road, Palo Alto, California 94304, USA

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Hewlett-Packard Company
 1501 Page Mill Road, Palo Alto, California 94304, USA

Product Name: Tablet PC

Brand Name: hp

Model No.: TPN-Q165

Model Difference: N/A

FCC ID: B94TNQ165SPFR

File Number: E2/2015/70003

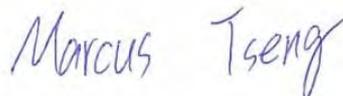
Date of test: Jul. 03, 2015 ~ Aug. 03, 2015

Date of EUT Received: Jul. 03, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C-2004 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

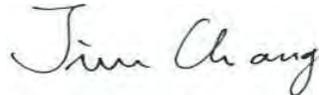
The test results of this report relate only to the tested sample identified in this report.

Test By:  **Date:** Aug. 03, 2015

Marcus Tseng / Engineer

Prepared By:  **Date:** Aug. 03, 2015

Allen Tsai / Engineer

Approved By:  **Date:** Aug. 03, 2015

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/70003	Rev.00	Initial creation of document	Aug. 03, 2015

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Tablet PC	
Brand Name:	hp	
Model No.:	TPN-Q165	
Model Difference:	N/A	
Software version:	Win10-9600	
Hardware version:	SI-2	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	11.4Vdc from rechargeable battery and 15Vdc from adapter	
	Battery:	Model No.: HSTNN-IB7D , Supplier: HP
	Adapter:	Model No.: TPN-CA01 Supplier: HP
IMEI:	354019060175876	

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LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 2 (Bandwidth 1.4MHz)	1850.7MHz– 1909.3MHz	23dBm
	LTE-Band 2 (Bandwidth 3MHz)	1851.5MHz – 1908.5MHz	23dBm
	LTE-Band 2 (Bandwidth 5MHz)	1852.5MHz – 1907.5MHz	23dBm
	LTE-Band 2 (Bandwidth 10MHz)	1855.0MHz – 1905.0MHz	23dBm
	LTE-Band 2 (Bandwidth 15MHz)	1857.5MHz – 1902.5MHz	23dBm
	LTE-Band 2 (Bandwidth 20MHz)	1860.0MHz – 1900.0MHz	23dBm
	LTE-Band 4 (Bandwidth 1.4MHz)	1710.7MHz– 1754.3MHz	23dBm
	LTE-Band 4 (Bandwidth 3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (Bandwidth 5MHz)	1712.5MHz – 1752.5MHz	23dBm
	LTE-Band 4 (Bandwidth 10MHz)	1715MHz – 1750MHz	23dBm
	LTE-Band 4 (Bandwidth 15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (Bandwidth 20MHz)	1720MHz – 1745MHz	23dBm
	LTE-Band 5 (Bandwidth 1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (Bandwidth 3MHz)	825.5MHz – 847.5MHz	23dBm
	LTE-Band 5 (Bandwidth 5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (Bandwidth 10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 13 (Bandwidth 5MHz)	779.5MHz – 784.5MHz	23 dBm
	LTE-Band 13 (Bandwidth 10MHz)	782MHz - 782MHz	23 dBm
	LTE-Band 17 (Bandwidth 5MHz)	706.5MHz – 713.5MHz	23dBm
LTE-Band 17 (Bandwidth 10MHz)	709.0MHz –711.0MHz	23dBm	

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Type of Emission:	LTE-Band 2 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	1M11D7W
	LTE-Band 2 (Bandwidth 3MHz) QPSK	2M70G7D
	LTE-Band 2 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 2 (Bandwidth 5MHz) QPSK	4M50G7D
	LTE-Band 2 (Bandwidth 5MHz) 16QAM	4M53D7W
	LTE-Band 2 (Bandwidth 10MHz) QPSK	9M02G7D
	LTE-Band 2 (Bandwidth 10MHz) 16QAM	9M00D7W
	LTE-Band 2 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 2 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 2 (Bandwidth 20MHz) QPSK	17M9G7D
	LTE-Band 2 (Bandwidth 20MHz) 16QAM	17M9D7W
	LTE-Band 4 (Bandwidth 1.4MHz) QPSK	1M10G7D
	LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 4 (Bandwidth 3MHz) QPSK	2M70G7D
	LTE-Band 4 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 4 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 4 (Bandwidth 5MHz) 16QAM	4M51D7W
	LTE-Band 4 (Bandwidth 10MHz) QPSK	8M99G7D
	LTE-Band 4 (Bandwidth 10MHz) 16QAM	8M99D7W
	LTE-Band 4 (Bandwidth 15MHz) QPSK	13M5G7D
	LTE-Band 4 (Bandwidth 15MHz) 16QAM	13M5D7W
	LTE-Band 4 (Bandwidth 20MHz) QPSK	18M0G7D
	LTE-Band 4 (Bandwidth 20MHz) 16QAM	18M0D7W
	LTE-Band 5 (Bandwidth 1.4MHz) QPSK	1M11G7D
	LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	1M10D7W
	LTE-Band 5 (Bandwidth 3MHz) QPSK	2M71G7D
	LTE-Band 5 (Bandwidth 3MHz) 16QAM	2M71D7W
	LTE-Band 5 (Bandwidth 5MHz) QPSK	4M51G7D
	LTE-Band 5 (Bandwidth 5MHz) 16QAM	4M52D7W
	LTE-Band 5 (Bandwidth 10MHz) QPSK	9M02G7D
	LTE-Band 5 (Bandwidth 10MHz) 16QAM	9M01D7W
	LTE-Band 13 (Bandwidth 5MHz) QPSK	4M50G7D
	LTE-Band 13 (Bandwidth 5MHz) 16QAM	4M51D7W
LTE-Band 13 (Bandwidth 10MHz) QPSK	9M01G7D	
LTE-Band 13 (Bandwidth 10MHz) 16QAM	8M98D7W	
LTE-Band 17 (Bandwidth 5MHz) QPSK	4M52G7D	
LTE-Band 17 (Bandwidth 5MHz) 16QAM	4M52D7W	
LTE-Band 17 (Bandwidth 10MHz) QPSK	9M01G7D	
LTE-Band 17 (Bandwidth 10MHz) 16QAM	8M97D7W	

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Max ERP/EIRP Power Measurement Result:

	dBm		W
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	27.22	EIRP	0.53
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	27.29	EIRP	0.54
LTE-Band 2 (Bandwidth 3MHz) QPSK	27.04	EIRP	0.51
LTE-Band 2 (Bandwidth 3MHz) 16QAM	27.34	EIRP	0.54
LTE-Band 2 (Bandwidth 5MHz) QPSK	27.35	EIRP	0.54
LTE-Band 2 (Bandwidth 5MHz) 16QAM	27.41	EIRP	0.55
LTE-Band 2 (Bandwidth 10MHz) QPSK	27.86	EIRP	0.61
LTE-Band 2 (Bandwidth 10MHz) 16QAM	27.92	EIRP	0.62
LTE-Band 2 (Bandwidth 15MHz) QPSK	27.76	EIRP	0.60
LTE-Band 2 (Bandwidth 15MHz) 16QAM	28.21	EIRP	0.66
LTE-Band 2 (Bandwidth 20MHz) QPSK	26.63	EIRP	0.46
LTE-Band 2 (Bandwidth 20MHz) 16QAM	26.90	EIRP	0.49
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	28.46	EIRP	0.70
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	28.73	EIRP	0.75
LTE-Band 4 (Bandwidth 3MHz) QPSK	28.40	EIRP	0.69
LTE-Band 4 (Bandwidth 3MHz) 16QAM	28.74	EIRP	0.75
LTE-Band 4 (Bandwidth 5MHz) QPSK	28.53	EIRP	0.71
LTE-Band 4 (Bandwidth 5MHz) 16QAM	28.77	EIRP	0.75
LTE-Band 4 (Bandwidth 10MHz) QPSK	29.17	EIRP	0.83
LTE-Band 4 (Bandwidth 10MHz) 16QAM	28.86	EIRP	0.77
LTE-Band 4 (Bandwidth 15MHz) QPSK	28.83	EIRP	0.76
LTE-Band 4 (Bandwidth 15MHz) 16QAM	29.11	EIRP	0.81
LTE-Band 4 (Bandwidth 20MHz) QPSK	27.93	EIRP	0.62
LTE-Band 4 (Bandwidth 20MHz) 16QAM	28.24	EIRP	0.67
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	19.42	ERP	0.09
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	19.95	ERP	0.10
LTE-Band 5 (Bandwidth 3MHz) QPSK	19.28	ERP	0.08
LTE-Band 5 (Bandwidth 3MHz) 16QAM	19.84	ERP	0.10
LTE-Band 5 (Bandwidth 5MHz) QPSK	19.28	ERP	0.08
LTE-Band 5 (Bandwidth 5MHz) 16QAM	19.80	ERP	0.10
LTE-Band 5 (Bandwidth 10MHz) QPSK	19.20	ERP	0.08
LTE-Band 5 (Bandwidth 10MHz) 16QAM	19.71	ERP	0.09

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	dBm		W
LTE-Band 13 (Bandwidth 5MHz) QPSK	24.88	ERP	0.31
LTE-Band 13 (Bandwidth 5MHz) 16QAM	24.19	ERP	0.26
LTE-Band 13 (Bandwidth 10MHz) QPSK	22.90	ERP	0.19
LTE-Band 13 (Bandwidth 10MHz) 16QAM	23.07	ERP	0.20
LTE-Band 17 (Bandwidth 5MHz) QPSK	22.89	ERP	0.19
LTE-Band 17 (Bandwidth 5MHz) 16QAM	23.17	ERP	0.21
LTE-Band 17 (Bandwidth 10MHz) QPSK	22.46	ERP	0.18
LTE-Band 17 (Bandwidth 10MHz) 16QAM	22.73	ERP	0.19

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1.2. Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Tablet PC supporting LTE features, and below is details of information.

Product Feature	
Product Name:	Tablet PC
Brand Name:	hp
Model No.:	TPN-Q165
Model Difference:	N/A
FCC ID	B94TNQ165SPFR
LTE Operating Band(s)	FCC Band 2 / 4 / 5 / 13 / 17
LTE Rel. Version	Release 8 / Category 3

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user’s manual for more detailed description.

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1.3. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22,24 27

ANSI / TIA / EIA 603C-C-2004

KDB971168 D01 Power Meas license Digital System v02r01

TS 151 010-1 is used to set, and measure the output power.

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

1.4. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.5. Special Accessories

No special accessories were used during testing.

1.6. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured TIA/EIA 603C, the EUT is placed on a turn table which is 0.8 m above ground plan. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured TIA/EIA 603C, The EUT is a placed on as turn table which is 0.8 m above ground plan. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

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2.4. Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation example with cable loss 1 dB for low band and 1 dB for high band with 10 dB attenuator 3.8 dB for low band and 3.5 dB for high band.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =1+10+3.8=14.5(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =1+10+3.5=14.8(dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	11.4	1110
LTE Band 2_1.4M 16QAM	11.4	1120
LTE Band 2_3M QPSK	11.4	1130
LTE Band 2_3M 16QAM	11.4	1130
LTE Band 2_5M QPSK	11.4	1120
LTE Band 2_5M 16QAM	11.4	1110
LTE Band 2_10M QPSK	11.4	1130
LTE Band 2_10M 16QAM	11.4	1110
LTE Band 2_15M QPSK	11.4	1140
LTE Band 2_15M 16QAM	11.4	1130
LTE Band 2_20M QPSK	11.4	1120
LTE Band 2_20M 16QAM	11.4	1130

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	11.4	1140
LTE Band 4_1.4M 16QAM	11.4	1130
LTE Band 4_3M QPSK	11.4	1140
LTE Band 4_3M 16QAM	11.4	1120
LTE Band 4_5M QPSK	11.4	1120
LTE Band 4_5M 16QAM	11.4	1130
LTE Band 4_10M QPSK	11.4	1140
LTE Band 4_10M 16QAM	11.4	1130
LTE Band 4_15M QPSK	11.4	1140
LTE Band 4_15M 16QAM	11.4	1120
LTE Band 4_20M QPSK	11.4	1130
LTE Band 4_20M 16QAM	11.4	1140

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	11.4	1060
LTE Band 5_1.4M 16QAM	11.4	1060
LTE Band 5_3M QPSK	11.4	1050
LTE Band 5_3M 16QAM	11.4	1070
LTE Band 5_5M QPSK	11.4	1060
LTE Band 5_5M 16QAM	11.4	1050
LTE Band 5_10M QPSK	11.4	1080
LTE Band 5_10M 16QAM	11.4	1090

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 13_5M QPSK	11.4	1050
LTE Band 13_5M 16QAM	11.4	1040
LTE Band 13_10M QPSK	11.4	1050
LTE Band 13_10M 16QAM	11.4	1050

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 17_5M QPSK	11.4	1020
LTE Band 17_5M 16QAM	11.4	1030
LTE Band 17_10M QPSK	11.4	1040
LTE Band 17_10M 16QAM	11.4	1040

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2.6. Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

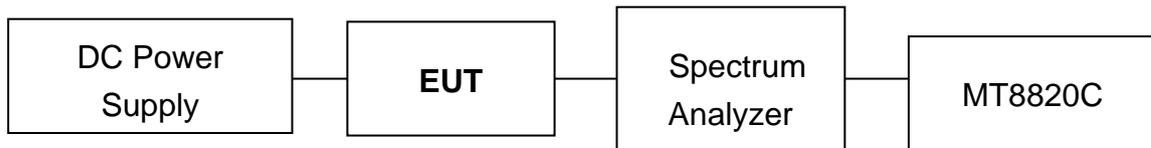
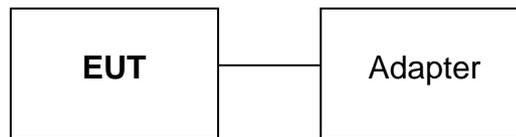


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side



Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/Model No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6201107337	shielded	Un-shielded
2.	DC Power Supply	HP	E3640A	MY40005907	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(2) §24.232(c) §27.50(c)(10) §27.50(d)(4)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(c)(2) §27.50(c)(5) §27.53(h)	Out of Band Emissions at Antenna Terminals and Band Edge	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(g) §27.53(h)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§27.53(f)	Spurious emission in 1559 -1610MHz Band	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	ERP/EIRP	RADIATED EMISSION
LTE Band 2	E2-plan	E2-plan
LTE Band 4	E2-plan	E2-plan
LTE Band 5	H-plan	H-plan
LTE Band 13	H-plan	H-plan
LTE Band 17	H-plan	H-plan

LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM	Full RB

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	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	Full RB
	BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,
18615 to 19185		18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
18625 to 19175		18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
18650 to 19150		18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
18675 to 19125		18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
18700 to 19100		18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18675 to 19125	18675, 18900, 19125	15MHz	16QAM	1 RB/ 74 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM	Full RB

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BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20025 to 20325	20025, 20175, 20325	15MHz	16QAM,	1 RB, 74 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	20407 to 20643	20407, 20525, 20643	1.4MHz	16QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	Full RB
BAND EDGE	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20407 to 20643	20407, 20525, 20643	1.4MHz	16QAM	1 RB/ 0 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB/ 0 RB Offest

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LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	1 RB, 24 RB Offest

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz - 417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz - 500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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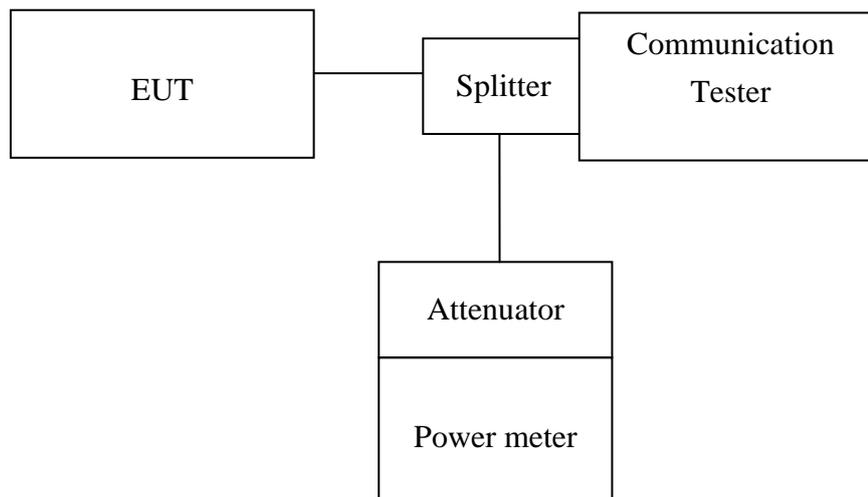
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

6.5. Measurement Result

RF Conducted Output Power

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LTE Result:

LTE Band 2

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193	Channel (Low) 18607	Channel (Mid) 18900	Channel (High) 19193
1.4	1	0	22.60	22.61	22.47	21.83	21.81	21.77
	1	5	22.43	22.82	22.42	21.88	22.16	21.94
	3	2	22.27	22.63	22.18	21.48	21.75	21.54
	6	0	21.40	21.49	21.40	20.65	20.82	20.70

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185	Channel (Low) 18615	Channel (Mid) 18900	Channel (High) 19185
3	1	0	22.76	22.75	22.52	21.83	22.00	21.65
	1	14	22.67	22.48	22.63	22.03	22.32	21.74
	8	4	21.70	21.99	21.73	20.82	20.93	20.86
	15	0	21.80	21.87	21.73	20.94	21.03	20.79

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175	Channel (Low) 18625	Channel (Mid) 18900	Channel (High) 19175
5	1	0	22.67	22.86	22.58	22.20	22.09	21.50
	1	24	22.45	22.61	22.67	21.96	22.02	21.75
	12	6	21.78	21.90	21.69	20.85	20.88	20.80
	25	0	21.72	21.88	21.69	20.91	21.04	20.87

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150	Channel (Low) 18650	Channel (Mid) 18900	Channel (High) 19150
10	1	0	22.82	22.96	22.80	22.39	22.12	22.00
	1	49	22.61	22.72	22.34	21.92	21.72	21.84
	25	12	21.74	21.88	21.64	20.97	20.98	20.82
	50	0	21.84	21.89	21.72	20.95	21.08	20.77

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125	Channel (Low) 18675	Channel (Mid) 18900	Channel (High) 19125
15	1	0	23.10	23.22	23.12	22.07	22.46	22.63
	1	74	22.64	22.55	22.42	22.23	21.98	22.00
	36	19	21.94	21.92	21.71	21.01	20.99	20.88
	75	0	21.93	22.03	21.86	20.94	21.12	20.86

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100	Channel (Low) 18700	Channel (Mid) 18900	Channel (High) 19100
20	1	0	23.34	23.32	23.05	22.26	22.45	22.45
	1	99	22.77	22.59	22.43	21.79	21.80	21.59
	50	25	22.22	22.03	21.85	21.04	20.99	20.87
	100	0	22.22	22.17	22.06	21.15	21.17	21.00

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LTE Band 4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	22.60	22.61	22.47	21.83	21.81	21.77
	1	5	22.43	22.82	22.42	21.88	22.16	21.94
	3	2	22.27	22.63	22.18	21.48	21.75	21.54
	6	0	21.40	21.49	21.40	20.65	20.82	20.70

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	22.76	22.75	22.52	21.83	22.00	21.65
	1	14	22.67	22.48	22.63	22.03	22.32	21.74
	8	4	21.70	21.99	21.73	20.82	20.93	20.86
	15	0	21.80	21.87	21.73	20.94	21.03	20.79

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	22.67	22.86	22.58	22.20	22.09	21.50
	1	24	22.45	22.61	22.67	21.96	22.02	21.75
	12	6	21.78	21.90	21.69	20.85	20.88	20.80
	25	0	21.72	21.88	21.69	20.91	21.04	20.87

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LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	22.82	22.96	22.80	22.39	22.12	22.00
	1	49	22.61	22.72	22.34	21.92	21.72	21.84
	25	12	21.74	21.88	21.64	20.97	20.98	20.82
	50	0	21.84	21.89	21.72	20.95	21.08	20.77

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	23.10	23.22	23.12	22.07	22.46	22.63
	1	74	22.64	22.55	22.42	22.23	21.98	22.00
	36	19	21.94	21.92	21.71	21.01	20.99	20.88
	75	0	21.93	22.03	21.86	20.94	21.12	20.86

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	23.60	23.05	23.59	22.55	21.98	22.62
	1	99	22.95	23.12	23.16	22.04	20.54	22.42
	50	25	22.10	22.01	22.17	20.91	20.83	21.17
	100	0	22.08	22.04	22.38	21.23	20.46	21.32

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LTE Band 5

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643	Channel (Low) 20407	Channel (Mid) 20525	Channel (High) 20643
1.4	1	0	23.15	23.20	23.07	22.22	22.47	22.50
	1	5	23.33	23.15	23.24	22.19	22.49	22.06
	3	2	22.38	22.26	22.35	21.19	21.07	21.07
	6	0	21.18	21.14	21.16	20.27	20.25	20.33

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635	Channel (Low) 20415	Channel (Mid) 20525	Channel (High) 20635
3	1	0	23.32	23.07	23.23	22.26	22.17	22.10
	1	14	23.20	23.12	23.07	22.52	22.49	22.41
	8	4	22.27	22.06	22.28	21.30	20.97	21.10
	15	0	22.29	22.06	22.27	21.25	21.00	21.17

LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625	Channel (Low) 20425	Channel (Mid) 20525	Channel (High) 20625
5	1	0	23.21	23.07	23.19	22.71	22.37	22.22
	1	24	23.19	23.08	23.10	22.43	22.55	22.20
	12	6	22.24	22.12	22.26	21.14	21.01	21.16
	25	0	22.24	22.06	22.25	21.22	20.99	21.14

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LTE Band 5_Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600	Channel (Low) 20450	Channel (Mid) 20525	Channel (High) 20600
10	1	0	23.52	23.33	23.26	22.84	22.25	22.41
	1	49	23.22	23.20	23.26	22.12	21.98	22.00
	25	12	23.32	22.25	22.31	21.35	21.18	21.34
	50	0	22.36	22.36	22.36	21.32	21.25	21.21

LTE Band 13

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255	Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255
5	1	0	23.34	23.50	23.35	22.90	22.48	22.47
	1	24	23.43	23.34	23.28	22.70	22.79	22.37
	12	6	22.52	22.50	22.40	21.55	21.47	21.33
	25	0	22.57	22.57	22.40	21.38	21.33	21.41

LTE Band 13_Uplink frequency band : 777 to 787 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			Channel 23230	Channel 23230
10	1	0	23.29	22.19
	1	49	23.22	22.01
	25	12	22.48	21.47
	50	0	22.61	21.45

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LTE Band 17

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825	Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825
5	1	0	22.99	22.93	22.98	22.18	21.77	21.99
	1	24	23.03	22.97	22.97	22.41	22.35	22.43
	12	6	22.19	22.15	22.13	21.13	21.01	20.95
	25	0	22.21	22.20	22.11	21.06	21.01	20.97

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800	Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800
10	1	0	23.10	23.08	23.24	22.38	21.98	22.05
	1	49	22.95	23.01	23.09	22.48	22.16	22.14
	25	12	22.21	22.13	22.24	21.15	21.04	21.05
	50	0	22.27	22.16	22.17	21.01	20.96	20.90

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3W ERP.

FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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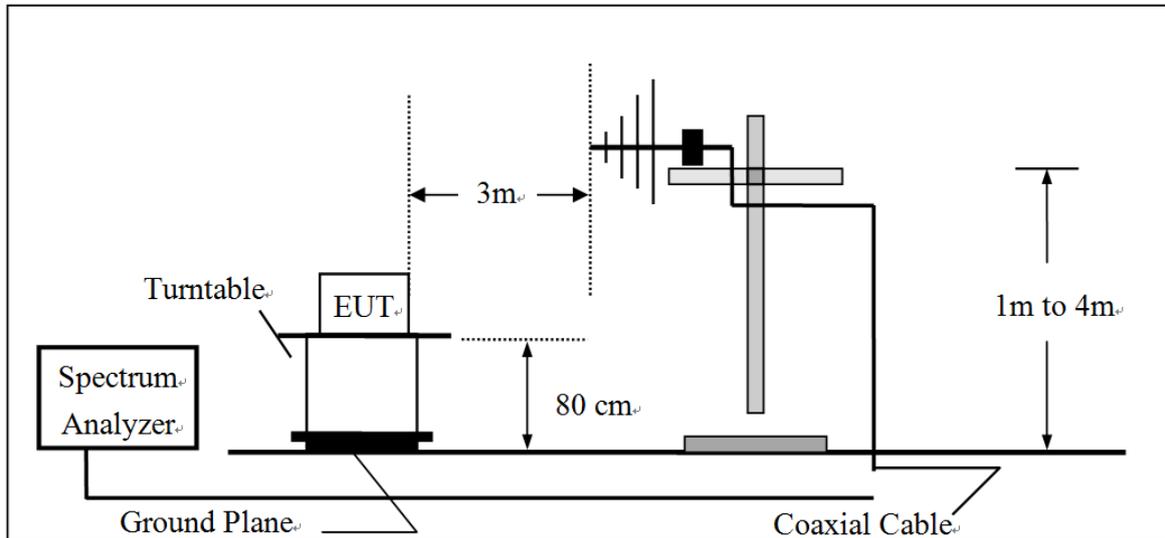
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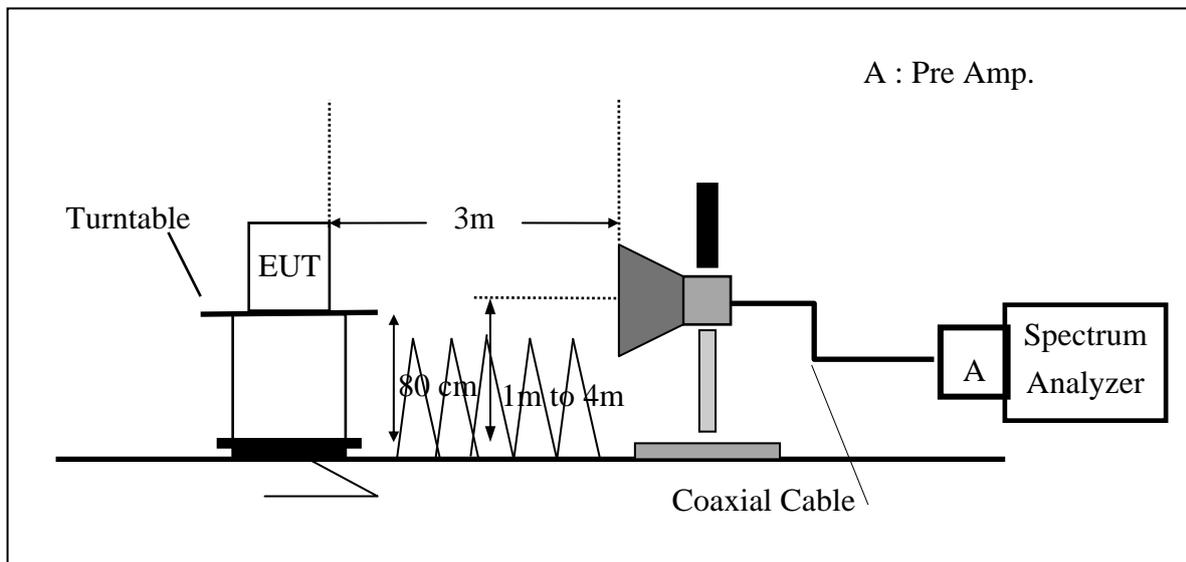
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7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below 1000MHz



(B) Radiated Power Test Set-UP Frequency Over 1 GHz

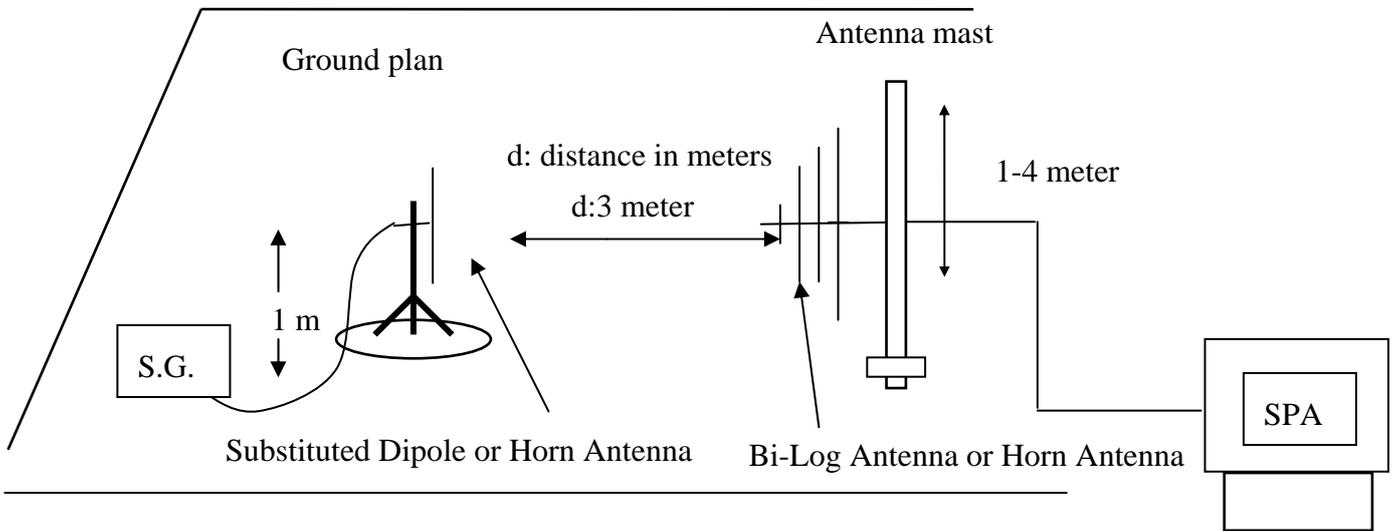


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(C) Substituted Method Test Set-UP



7.3. Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 971168 D01
2. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
3. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated
4. The testing follows the Measurement Procedure of FCC KDB 971168 D01
5. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G.
6. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$
7. $ERP = S.G. \text{ output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$

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8. Spectrum setting:

(1) Detector = Peak, marker the highest value of the detector by maximum hold, set RBW wide enough to capture the entire signal of emission, and VBW > =3xRBW.

(2) KDB 971168 D01 is adopted, and the procedure as lists under item 4, Measurement of the Average Power over the Fundamental Signal Bandwidth, is followed to set correspondingly for the acquisition of proper measurement data.

Set frequency = nominal signal center frequency;

Set span = 2 X occupied BW;

Set RBW ≈ 1~5% of the span, not to exceed 1 MHz

Set VBW = 3 x RBW;

Select average power (RMS) detector

Set sweep time and number of measurement points to achieve a minimum of 1 millisecond/pt

integration time (ex. Point = 601points, then sweep time = $601 \times 10^{-3} = 6s$).

Activate trace averaging routine over a minimum of 10 sweeps;

Activate marker/span pair and set span = signal or channel bandwidth;

Activate the band/interval power marker function;

Record the band power level;

Record adjusted value as the average signal power level. Then activate the occupied bandwidth measurement function.

The proper adjustment due to limitation of spectrum capability is given compensated to spectrum with conversion factor of $10 \times \log (TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extend, and RBW is the resolution BW in UE.

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7.4. Measurement Equipment Used

ERP, EIRP MEASUREMENT EQUIPMENT List 966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Broadband Antenna	TESEQ	CBL 6112D	35243	11/14/2014	11/13/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3117	00143280	09/23/2014	09/22/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-09	00117910	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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7.5. Measurement Result: (Peak) –using option of peak measurement

EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	21.70	5.35	-5.35	21.70	33.01
			H	26.20	5.35	-5.35	26.20	33.01
	1880.0	18900	V	22.35	5.28	-5.40	22.23	33.01
			H	27.34	5.28	-5.40	27.22	33.01
	1909.3	19193	V	20.19	5.21	-5.39	20.01	33.01
			H	26.86	5.21	-5.39	26.68	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	21.87	5.35	-5.35	21.87	33.01
			H	26.40	5.35	-5.35	26.40	33.01
	1880.0	18900	V	22.39	5.28	-5.41	22.26	33.01
			H	27.26	5.28	-5.41	27.13	33.01
	1909.3	19193	V	20.22	5.21	-5.39	20.04	33.01
			H	27.00	5.21	-5.39	26.82	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	21.94	5.35	-5.35	21.94	33.01
			H	26.44	5.35	-5.35	26.44	33.01
	1880.0	18900	V	22.47	5.28	-5.41	22.34	33.01
			H	27.42	5.28	-5.41	27.29	33.01
	1909.3	19193	V	20.25	5.21	-5.39	20.07	33.01
			H	27.06	5.21	-5.39	26.88	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	22.09	5.35	-5.35	22.09	33.01
			H	26.59	5.35	-5.35	26.59	33.01
	1880.0	18900	V	22.40	5.28	-5.41	22.27	33.01
			H	27.33	5.28	-5.41	27.20	33.01
	1909.3	19193	V	20.29	5.21	-5.39	20.11	33.01
			H	27.10	5.21	-5.39	26.92	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	21.67	5.35	-5.35	21.67	33.01
			H	26.19	5.35	-5.35	26.19	33.01
	1880.0	18900	V	22.22	5.29	-5.40	22.11	33.01
			H	27.11	5.29	-5.40	27.00	33.01
	1908.5	19185	V	19.77	5.22	-5.39	19.60	33.01
			H	26.63	5.22	-5.39	26.46	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	22.03	5.35	-5.35	22.03	33.01
			H	26.59	5.35	-5.35	26.59	33.01
	1880.0	18900	V	22.25	5.28	-5.41	22.12	33.01
			H	27.17	5.28	-5.41	27.04	33.01
	1908.5	19185	V	20.09	5.21	-5.39	19.91	33.01
			H	26.90	5.21	-5.39	26.72	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	21.95	5.35	-5.35	21.95	33.01
			H	26.49	5.35	-5.35	26.49	33.01
	1880.0	18900	V	22.48	5.29	-5.40	22.37	33.01
			H	27.45	5.29	-5.40	27.34	33.01
	1908.5	19185	V	20.34	5.22	-5.39	20.17	33.01
			H	27.11	5.22	-5.39	26.94	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	22.35	5.35	-5.35	22.35	33.01
			H	26.99	5.35	-5.35	26.99	33.01
	1880.0	18900	V	22.45	5.28	-5.41	22.32	33.01
			H	27.40	5.28	-5.41	27.27	33.01
	1908.5	19185	V	20.42	5.21	-5.39	20.24	33.01
			H	27.24	5.21	-5.39	27.06	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	21.70	5.35	-5.35	21.70	33.01
			H	26.28	5.35	-5.35	26.28	33.01
	1880.0	18900	V	22.49	5.29	-5.40	22.38	33.01
			H	27.46	5.29	-5.40	27.35	33.01
	1907.5	19175	V	20.27	5.22	-5.39	20.10	33.01
			H	27.00	5.22	-5.39	26.83	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	22.14	5.34	-5.35	22.13	33.01
			H	26.77	5.34	-5.35	26.76	33.01
	1880.0	18900	V	22.33	5.28	-5.42	22.19	33.01
			H	27.14	5.28	-5.42	27.00	33.01
	1907.5	19175	V	20.27	5.21	-5.39	20.09	33.01
			H	27.11	5.21	-5.39	26.93	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	21.86	5.35	-5.35	21.86	33.01
			H	26.53	5.35	-5.35	26.53	33.01
	1880.0	18900	V	22.55	5.29	-5.40	22.44	33.01
			H	27.52	5.29	-5.40	27.41	33.01
	1907.5	19175	V	20.36	5.22	-5.39	20.19	33.01
			H	27.19	5.22	-5.39	27.02	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	22.49	5.35	-5.35	22.49	33.01
			H	27.13	5.35	-5.35	27.13	33.01
	1880.0	18900	V	22.43	5.28	-5.41	22.30	33.01
			H	27.28	5.28	-5.41	27.15	33.01
	1907.5	19175	V	20.44	5.21	-5.39	20.26	33.01
			H	27.29	5.21	-5.39	27.11	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	21.90	5.35	-5.35	21.90	33.01
			H	26.27	5.35	-5.35	26.27	33.01
	1880.0	18900	V	22.26	5.29	-5.39	22.16	33.01
			H	26.89	5.29	-5.39	26.79	33.01
	1905.0	19150	V	20.23	5.23	-5.39	20.07	33.01
			H	27.02	5.23	-5.39	26.86	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	22.97	5.33	-5.35	22.95	33.01
			H	27.74	5.33	-5.35	27.72	33.01
	1880.0	18900	V	22.20	5.27	-5.42	22.05	33.01
			H	26.81	5.27	-5.42	26.66	33.01
	1905.0	19150	V	19.99	5.21	-5.39	19.81	33.01
			H	26.88	5.21	-5.39	26.70	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	22.13	5.35	-5.35	22.13	33.01
			H	26.60	5.35	-5.35	26.60	33.01
	1880.0	18900	V	22.52	5.29	-5.38	22.43	33.01
			H	27.39	5.29	-5.38	27.30	33.01
	1905.0	19150	V	20.80	5.23	-5.39	20.64	33.01
			H	27.58	5.23	-5.39	27.42	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	23.44	5.33	-5.35	23.42	33.01
			H	27.94	5.33	-5.35	27.92	33.01
	1880.0	18900	V	22.32	5.27	-5.42	22.17	33.01
			H	26.95	5.27	-5.42	26.80	33.01
	1905.0	19150	V	20.24	5.21	-5.39	20.06	33.01
			H	27.14	5.21	-5.39	26.96	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	22.03	5.35	-5.35	22.03	33.01
			H	26.42	5.35	-5.35	26.42	33.01
	1880.0	18900	V	22.31	5.30	-5.38	22.23	33.01
			H	26.58	5.30	-5.38	26.50	33.01
	1902.5	19125	V	22.14	5.24	-5.40	21.98	33.01
			H	27.35	5.24	-5.40	27.19	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	23.17	5.32	-5.35	23.14	33.01
			H	27.79	5.32	-5.35	27.76	33.01
	1880.0	18900	V	22.29	5.27	-5.42	22.14	33.01
			H	26.70	5.27	-5.42	26.55	33.01
	1902.5	19125	V	20.01	5.21	-5.39	19.83	33.01
			H	26.84	5.21	-5.39	26.66	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	22.27	5.35	-5.35	22.27	33.01
			H	26.70	5.35	-5.35	26.70	33.01
	1880.0	18900	V	22.55	5.30	-5.38	22.47	33.01
			H	27.08	5.30	-5.38	27.00	33.01
	1902.5	19125	V	22.17	5.24	-5.40	22.01	33.01
			H	27.81	5.24	-5.40	27.65	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	23.57	5.32	-5.35	23.54	33.01
			H	28.24	5.32	-5.35	28.21	33.01
	1880.0	18900	V	22.46	5.27	-5.42	22.31	33.01
			H	26.88	5.27	-5.42	26.73	33.01
	1902.5	19125	V	20.21	5.21	-5.39	20.03	33.01
			H	27.13	5.21	-5.39	26.95	33.01

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	21.78	5.35	-5.35	21.78	33.01
			H	26.20	5.35	-5.35	26.20	33.01
	1880.0	18900	V	21.91	5.30	-5.37	21.84	33.01
			H	26.35	5.30	-5.37	26.28	33.01
	1900.0	19100	V	21.74	5.25	-5.41	21.58	33.01
			H	26.66	5.26	-5.41	26.51	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	21.19	5.31	-5.36	21.14	33.01
			H	26.68	5.31	-5.36	26.63	33.01
	1880.0	18900	V	21.94	5.26	-5.41	21.79	33.01
			H	26.32	5.26	-5.41	26.17	33.01
	1900.0	19100	V	19.18	5.21	-5.39	19.00	33.01
			H	26.13	5.21	-5.39	25.95	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	22.04	5.35	-5.35	22.04	33.01
			H	26.48	5.35	-5.35	26.48	33.01
	1880.0	18900	V	21.97	5.30	-5.36	21.91	33.01
			H	26.32	5.30	-5.36	26.26	33.01
	1900.0	19100	V	21.79	5.26	-5.41	21.64	33.01
			H	27.05	5.26	-5.41	26.90	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	21.41	5.31	-5.35	21.37	33.01
			H	26.92	5.31	-5.35	26.88	33.01
	1880.0	18900	V	22.19	5.26	-5.41	22.04	33.01
			H	26.65	5.26	-5.41	26.50	33.01
	1900.0	19100	V	19.48	5.21	-5.39	19.30	33.01
			H	26.48	5.21	-5.39	26.30	33.01

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 1.4M/ QPSK RB: 1,0	1710.7	19957	V	21.11	5.69	-5.17	21.63	30.00
			H	22.46	5.69	-5.17	22.98	30.00
	1732.5	20175	V	21.44	5.64	-5.24	21.83	30.00
			H	28.02	5.64	-5.24	28.41	30.00
	1754.3	20393	V	22.52	5.58	-5.29	22.82	30.00
			H	26.37	5.58	-5.29	26.66	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	21.12	5.69	-5.17	21.63	30.00
			H	22.33	5.69	-5.17	20.83	30.00
	1732.5	20175	V	21.33	5.64	-5.25	21.72	30.00
			H	28.08	5.64	-5.25	28.46	30.00
	1754.3	20393	V	22.53	5.58	-5.29	22.82	30.00
			H	26.45	5.58	-5.29	26.75	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	21.67	5.69	-5.17	22.18	30.00
			H	23.00	5.69	-5.17	23.52	30.00
	1732.5	20175	V	21.76	5.64	-5.24	22.15	30.00
			H	28.39	5.64	-5.24	28.73	30.00
	1754.3	20393	V	23.08	5.58	-5.29	23.37	30.00
			H	26.98	5.58	-5.29	27.28	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	21.65	5.69	-5.17	22.17	30.00
			H	22.85	5.69	-5.17	23.37	30.00
	1732.5	20175	V	21.48	5.63	-5.25	21.87	30.00
			H	28.25	5.63	-5.25	28.63	30.00
	1754.3	20393	V	22.95	5.58	-5.29	23.24	30.00
			H	26.92	5.58	-5.29	27.22	30.00

Remark :

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	20.96	5.69	-5.17	21.48	30.00
			H	25.34	5.69	-5.17	25.86	30.00
	1732.5	20175	V	21.51	5.64	-5.24	21.91	30.00
			H	27.92	5.64	-5.24	28.31	30.00
	1753.5	20385	V	20.67	5.59	-5.30	20.96	30.00
			H	26.44	5.59	-5.30	26.73	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	21.02	5.68	-5.17	21.53	30.00
			H	25.50	5.68	-5.17	26.01	30.00
	1732.5	20175	V	21.16	5.64	-5.25	21.55	30.00
			H	28.01	5.63	-5.25	28.40	30.00
	1753.5	20385	V	20.62	5.58	-5.29	20.92	30.00
			H	26.43	5.58	-5.29	26.72	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	21.51	5.69	-5.17	22.02	30.00
			H	25.95	5.69	-5.17	26.47	30.00
	1732.5	20175	V	21.81	5.64	-5.24	22.21	30.00
			H	28.31	5.64	-5.24	28.71	30.00
	1753.5	20385	V	21.12	5.59	-5.29	21.42	30.00
			H	26.88	5.59	-5.29	27.17	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	21.68	5.68	-5.17	22.19	30.00
			H	26.10	5.68	-5.17	26.61	30.00
	1732.5	20175	V	21.42	5.64	-5.24	21.81	30.00
			H	28.34	5.64	-5.24	28.74	30.00
	1753.5	20385	V	21.20	5.59	-5.29	21.50	30.00
			H	27.00	5.59	-5.29	27.30	30.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	21.35	5.69	-5.17	21.87	30.00
			H	25.96	5.69	-5.17	26.48	30.00
	1732.5	20175	V	21.83	5.64	-5.24	22.23	30.00
			H	27.96	5.64	-5.24	28.36	30.00
	1752.5	20375	V	22.39	5.59	-5.30	22.69	30.00
			H	25.58	5.59	-5.30	25.87	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	21.24	5.68	-5.18	21.74	30.00
			H	25.73	5.68	-5.18	26.23	30.00
	1732.5	20175	V	21.11	5.63	-5.26	21.48	30.00
			H	28.16	5.63	-5.26	28.53	30.00
	1752.5	20375	V	22.39	5.58	-5.29	22.69	30.00
			H	25.58	5.58	-5.29	25.88	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	21.69	5.69	-5.17	22.21	30.00
			H	26.28	5.69	-5.17	26.80	30.00
	1732.5	20175	V	22.03	5.64	-5.23	22.44	30.00
			H	28.28	5.64	-5.23	28.69	30.00
	1752.5	20375	V	22.80	5.59	-5.30	23.08	30.00
			H	26.01	5.59	-5.30	26.30	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	21.84	5.68	-5.18	22.35	30.00
			H	26.38	5.68	-5.18	26.88	30.00
	1732.5	20175	V	21.34	5.63	-5.25	21.72	30.00
			H	28.38	5.63	-5.25	28.77	30.00
	1752.5	20375	V	22.96	5.59	-5.29	23.25	30.00
			H	26.15	5.59	-5.29	26.45	30.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	21.17	5.69	-5.17	21.69	30.00
			H	25.03	5.69	-5.17	25.52	30.00
	1732.5	20175	V	21.99	5.65	-5.23	22.42	30.00
			H	27.92	5.65	-5.23	28.34	30.00
	1750.0	20350	V	21.21	5.61	-5.30	21.51	30.00
			H	25.25	5.61	-5.30	25.55	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	21.41	5.67	-5.20	21.88	30.00
			H	25.16	5.67	-5.20	23.39	30.00
	1732.5	20175	V	21.03	5.62	-5.27	21.39	30.00
			H	28.32	5.62	-5.27	29.17	30.00
	1750.0	20350	V	21.29	5.58	-5.29	21.59	30.00
			H	26.52	5.58	-5.29	26.82	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	21.38	5.69	-5.17	21.89	30.00
			H	25.39	5.69	-5.17	25.90	30.00
	1732.5	20175	V	22.22	5.65	-5.22	22.65	30.00
			H	28.22	5.65	-5.23	28.64	30.00
	1750.0	20350	V	21.61	5.61	-5.30	21.92	30.00
			H	25.72	5.60	-5.31	26.01	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	22.08	5.67	-5.19	22.55	30.00
			H	25.67	5.67	-5.19	26.15	30.00
	1732.5	20175	V	21.21	5.63	-5.26	21.58	30.00
			H	28.49	5.63	-5.26	28.86	30.00
	1750.0	20350	V	21.76	5.59	-5.29	22.06	30.00
			H	26.93	5.59	-5.29	27.24	30.00

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 15M QPSK RB: 1,0	1717.5	20025	V	21.40	5.69	-5.17	21.92	30.00
			H	26.19	5.69	-5.17	26.71	30.00
	1732.5	20175	V	22.21	5.65	-5.22	22.65	30.00
			H	28.02	5.65	-5.22	28.45	30.00
	1747.5	20325	V	21.21	5.62	-5.28	21.55	30.00
			H	26.58	5.62	-5.28	26.92	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	21.15	5.66	-5.21	21.59	30.00
			H	26.45	5.66	-5.21	26.90	30.00
	1732.5	20175	V	21.30	5.62	-5.27	21.64	30.00
			H	28.48	5.62	-5.27	28.83	30.00
	1747.5	20325	V	22.21	5.58	-5.29	22.51	30.00
			H	26.29	5.58	-5.29	26.59	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	21.70	5.69	-5.17	22.21	30.00
			H	26.49	5.69	-5.17	27.00	30.00
	1732.5	20175	V	22.44	5.65	-5.22	22.87	30.00
			H	28.27	5.65	-5.22	28.70	30.00
	1747.5	20325	V	21.58	5.62	-5.28	21.91	30.00
			H	26.82	5.62	-5.28	27.16	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	21.69	5.66	-5.21	22.13	30.00
			H	27.00	5.66	-5.21	27.45	30.00
	1732.5	20175	V	21.50	5.62	-5.27	21.85	30.00
			H	28.76	5.62	-5.27	29.11	30.00
	1747.5	20325	V	22.85	5.59	-5.29	23.14	30.00
			H	26.85	5.59	-5.29	27.15	30.00

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	EIRP	Limit
	MHz		V/H	dBm	dBi	dB	dBm	dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	21.51	5.69	-5.17	22.02	30.00
			H	24.92	5.69	-5.17	25.44	30.00
	1732.5	20175	V	21.60	5.66	-5.21	22.05	30.00
			H	27.30	5.66	-5.21	27.75	30.00
	1745.0	20300	V	21.60	5.63	-5.26	21.97	30.00
			H	26.00	5.63	-5.26	26.37	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	21.82	5.64	-5.23	22.24	30.00
			H	26.17	5.64	-5.23	26.59	30.00
	1732.5	20175	V	20.62	5.62	-5.29	20.95	30.00
			H	27.60	5.62	-5.29	27.93	30.00
	1745.0	20300	V	21.00	5.59	-5.29	21.29	30.00
			H	25.49	5.59	-5.29	25.78	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	21.73	5.69	-5.17	22.24	30.00
			H	25.09	5.69	-5.17	23.58	30.00
	1732.5	20175	V	21.90	5.66	-5.21	19.46	30.00
			H	27.45	5.66	-5.21	27.90	30.00
	1745.0	20300	V	21.80	5.63	-5.26	22.16	30.00
			H	26.11	5.63	-5.26	26.48	30.00
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	22.31	5.65	-5.23	22.73	30.00
			H	26.52	5.65	-5.23	26.94	30.00
	1732.5	20175	V	20.87	5.61	-5.29	21.19	30.00
			H	27.91	5.61	-5.29	28.24	30.00
	1745.0	20300	V	21.41	5.59	-5.29	21.70	30.00
			H	25.85	5.59	-5.29	26.15	30.00

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 1.4M QPSK RB: 1,0	824.7	20407	V	17.77	5.13	-3.48	19.42	38.45
			H	16.40	5.13	-3.48	18.05	38.45
	836.5	20525	V	14.70	5.09	-3.35	16.44	38.45
			H	13.09	5.09	-3.35	14.79	38.45
	848.3	20643	V	12.72	5.05	-3.40	14.37	38.45
			H	11.71	5.05	-3.40	13.36	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	17.34	5.13	-3.39	19.08	38.45
			H	15.97	5.13	-3.39	17.71	38.45
	836.5	20525	V	14.65	5.09	-3.39	16.35	38.45
			H	13.09	5.09	-3.39	14.79	38.45
	848.3	20643	V	12.61	5.05	-3.50	14.16	38.45
			H	11.63	5.05	-3.50	13.15	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	18.27	5.13	-3.45	19.95	38.45
			H	17.01	5.13	-3.45	18.69	38.45
	836.5	20525	V	15.03	5.09	-3.44	16.79	38.45
			H	13.45	5.09	-3.44	15.10	38.45
	848.3	20643	V	12.90	5.05	-3.42	14.54	38.45
			H	11.92	5.05	-3.42	13.55	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	18.17	5.13	-3.36	19.94	38.45
			H	16.79	5.13	-3.36	18.56	38.45
	836.5	20525	V	15.04	5.09	-3.37	16.76	38.45
			H	13.49	5.09	-3.37	15.20	38.45
	848.3	20643	V	12.93	5.05	-3.44	14.54	38.45
			H	11.99	5.05	-3.44	13.06	38.45

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 3M QPSK RB: 1,0	825.5	20415	V	17.60	5.14	-3.46	19.28	38.45
			H	16.17	5.14	-3.46	17.85	38.45
	836.5	20525	V	14.66	5.10	-3.86	16.38	38.45
			H	13.10	5.10	-3.86	14.34	38.45
	847.5	20635	V	11.95	5.06	-3.40	13.61	38.45
			H	10.72	5.06	-3.40	12.38	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	16.63	5.13	-3.34	18.42	38.45
			H	15.23	5.13	-3.34	17.02	38.45
	836.5	20525	V	14.62	5.09	-3.42	16.29	38.45
			H	13.13	5.09	-3.42	14.80	38.45
	847.5	20635	V	12.40	5.05	-3.47	13.98	38.45
			H	11.67	5.05	-3.47	13.25	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	18.21	5.13	-3.50	19.84	38.45
			H	16.69	5.13	-3.50	18.32	38.45
	836.5	20525	V	15.13	5.10	-3.36	16.87	38.45
			H	13.61	5.10	-3.36	15.35	38.45
	847.5	20635	V	12.44	5.06	-3.40	14.10	38.45
			H	11.35	5.06	-3.40	13.01	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	17.25	5.13	-3.33	19.04	38.45
			H	15.81	5.13	-3.33	17.60	38.45
	836.5	20525	V	15.20	5.09	-3.36	16.93	38.45
			H	13.73	5.09	-3.36	15.45	38.45
	847.5	20635	V	13.02	5.05	-3.40	14.67	38.45
			H	12.08	5.05	-3.40	13.73	38.45

Remark :

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 5M QPSK RB: 1,0	826.5	20425	V	17.63	5.13	-3.49	19.28	38.45
			H	10.18	5.13	-3.49	11.82	38.45
	836.5	20525	V	14.94	5.10	-3.42	16.62	38.45
			H	13.29	5.10	-3.42	14.98	38.45
	846.5	20625	V	12.69	5.06	-3.40	14.36	38.45
			H	11.73	5.06	-3.40	13.40	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	15.98	5.12	-3.43	17.67	38.45
			H	14.71	5.12	-3.43	16.40	38.45
	836.5	20525	V	14.61	5.09	-3.42	16.28	38.45
			H	13.14	5.08	-3.42	14.79	38.45
	846.5	20625	V	12.68	5.05	-3.47	14.26	38.45
			H	11.93	5.05	-3.47	13.51	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	18.17	5.13	-3.50	19.80	38.45
			H	16.77	5.13	-3.50	18.40	38.45
	836.5	20525	V	15.31	5.10	-3.42	16.98	38.45
			H	13.70	5.10	-3.42	15.38	38.45
	846.5	20625	V	13.01	5.06	-3.40	14.68	38.45
			H	12.08	5.06	-3.40	13.74	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	16.66	5.12	-3.43	18.35	38.45
			H	15.15	5.12	-3.43	16.84	38.45
	836.5	20525	V	15.33	5.09	-3.40	17.02	38.45
			H	13.82	5.09	-3.40	15.52	38.45
	846.5	20625	V	13.30	5.05	-3.42	14.93	38.45
			H	12.68	5.05	-3.42	14.31	38.45

Remark :

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Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 5 BW: 10M QPSK RB: 1,0	829.0	20450	V	17.53	5.13	-3.46	19.20	38.45
			H	15.93	5.13	-3.46	17.60	38.45
	836.5	20525	V	14.90	5.11	-3.53	16.48	38.45
			H	13.51	5.11	-3.53	15.09	38.45
	844.0	20600	V	14.91	5.08	-3.47	16.52	38.45
			H	13.62	5.08	-3.47	15.23	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	14.80	5.10	-3.54	16.37	38.45
			H	13.07	5.10	-3.54	14.63	38.45
	836.5	20525	V	14.45	5.08	-3.62	15.90	38.45
			H	13.36	5.08	-3.62	14.82	38.45
	844.0	20600	V	12.27	5.05	-3.42	13.90	38.45
			H	11.64	5.05	-3.42	13.27	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	18.07	5.13	-3.49	19.71	38.45
			H	16.45	5.13	-3.49	18.09	38.45
	836.5	20525	V	15.26	5.11	-3.52	16.85	38.45
			H	13.56	5.11	-3.52	15.15	38.45
	844.0	20600	V	15.45	5.08	-3.46	17.07	38.45
			H	14.20	5.08	-3.46	15.83	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	15.16	5.11	-3.56	16.70	38.45
			H	13.40	5.11	-3.56	14.95	38.45
	836.5	20525	V	15.25	5.08	-3.69	16.64	38.45
			H	13.88	5.08	-3.69	15.27	38.45
	844.0	20600	V	12.80	5.05	-3.40	14.45	38.45
			H	12.07	5.05	-3.40	13.72	38.45

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	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	20.89	5.19	-3.21	22.87	34.77
			H	17.60	5.19	-3.21	19.58	34.77
	782.0	23230	V	22.96	5.19	-3.27	24.88	34.77
			H	19.42	5.19	-3.27	21.34	34.77
	784.5	23255	V	20.82	5.19	-3.33	22.68	34.77
			H	18.45	5.19	-3.33	20.31	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	21.65	5.19	-3.21	23.63	34.77
			H	18.45	5.19	-3.21	20.43	34.77
	782.0	23230	V	21.98	5.19	-3.28	23.90	34.77
			H	17.67	5.19	-3.28	19.58	34.77
	784.5	23255	V	19.71	5.20	-3.33	21.59	34.77
			H	17.39	5.20	-3.33	22.81	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	20.90	5.19	-3.25	22.84	34.77
			H	17.79	5.19	-3.25	19.73	34.77
	782.0	23230	V	21.37	5.19	-3.21	23.35	34.77
			H	18.16	5.19	-3.21	20.14	34.77
	784.5	23255	V	20.94	5.19	-3.33	22.79	34.77
			H	18.75	5.19	-3.33	20.61	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	21.34	5.19	-3.31	23.22	34.77
			H	18.28	5.19	-3.31	20.16	34.77
	782.0	23230	V	22.28	5.19	-3.28	24.19	34.77
			H	18.92	5.19	-3.28	20.84	34.77
	784.5	23255	V	20.18	5.20	-3.36	22.01	34.77
			H	17.83	5.20	-3.36	19.67	34.77

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230	V	20.93	5.19	-3.21	22.90	34.77
			H	19.89	5.19	-3.21	21.87	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230	V	20.05	5.20	-3.33	21.92	34.77
			H	16.65	5.20	-3.33	18.57	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230	V	21.09	5.19	-3.21	23.07	34.77
			H	17.91	5.19	-3.21	19.88	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230	V	20.43	5.20	-3.33	22.30	34.77
			H	17.53	5.20	-3.33	19.40	34.77

Remark :

- (1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	19.52	5.06	-3.18	21.40	34.77
			H	15.20	5.06	-3.18	22.70	34.77
	710.0	23790	V	20.11	5.07	-3.18	21.87	34.77
			H	15.38	5.07	-3.18	17.27	34.77
	713.5	23825	V	19.90	5.08	-3.08	21.90	34.77
			H	14.66	5.08	-3.08	16.66	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	20.11	5.07	-3.29	21.90	34.77
			H	15.33	5.07	-3.29	17.11	34.77
	710.0	23790	V	19.83	5.08	-3.09	21.82	34.77
			H	14.48	5.08	-3.09	16.46	34.77
	713.5	23825	V	21.12	5.09	-3.33	22.89	34.77
			H	15.11	5.09	-3.33	16.87	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	19.76	5.06	-3.15	21.67	34.77
			H	15.28	5.06	-3.15	17.19	34.77
	710.0	23790	V	20.94	5.07	-3.29	22.72	34.77
			H	16.18	5.07	-3.29	17.96	34.77
	713.5	23825	V	20.15	5.08	-3.08	22.14	34.77
			H	14.88	5.08	-3.08	16.88	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	20.86	5.07	-3.27	22.67	34.77
			H	16.00	5.07	-3.27	17.81	34.77
	710.0	23790	V	20.13	5.08	-3.11	22.10	34.77
			H	14.77	5.08	-3.11	16.74	34.77
	713.5	23825	V	21.26	5.09	-3.18	23.17	34.77
			H	15.49	5.09	-3.18	17.40	34.77

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency	CH	Antenna Pol.	S.G. Output	Antenna Gain	Cable Loss	ERP	Limit
	MHz		V/H	dBm	dBd	dB	dBm	dBm
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	19.68	5.07	-3.18	21.56	34.77
			H	15.07	5.07	-3.18	16.96	34.77
	710.0	23790	V	19.96	5.07	-3.18	21.85	34.77
			H	15.48	5.07	-3.18	17.35	34.77
	711.0	23800	V	20.27	5.07	-3.22	22.12	34.77
			H	15.60	5.07	-3.22	17.45	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	19.88	5.08	-3.11	21.85	34.77
			H	14.46	5.08	-3.11	16.44	34.77
	710.0	23790	V	20.10	5.08	-3.11	22.08	34.77
			H	14.55	5.08	-3.11	16.52	34.77
	711.0	23800	V	20.61	5.09	-3.24	22.46	34.77
			H	14.94	5.09	-3.24	16.79	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	20.21	5.06	-3.18	22.10	34.77
			H	15.05	5.06	-3.18	16.94	34.77
	710.0	23790	V	20.75	5.07	-3.18	22.63	34.77
			H	16.19	5.07	-3.18	18.07	34.77
	711.0	23800	V	20.94	5.07	-3.28	22.73	34.77
			H	16.27	5.07	-3.28	18.06	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	20.11	5.08	-3.11	22.09	34.77
			H	14.45	5.08	-3.11	16.42	34.77
	710.0	23790	V	20.54	5.08	-3.14	22.48	34.77
			H	14.91	5.08	-3.14	16.85	34.77
	711.0	23800	V	20.83	5.09	-3.21	22.70	34.77
			H	15.20	5.09	-3.21	17.08	34.77

Remark :

(1) The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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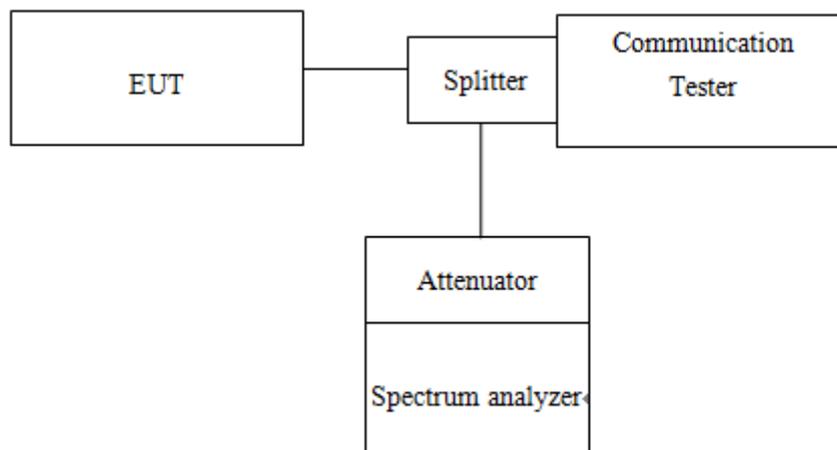
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

8.2. Test Set-up



8.3. Measurement Procedure

99% & 26dB Bandwidth

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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8.5. Measurement Result

99% Bandwidth

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.0972	1.1036	1851.5	18615	2.6975	2.7094
1880.0	18900	1.1020	1.1068	1880.0	18900	2.6973	2.6903
1909.3	19193	1.1016	1.1001	1908.5	19185	2.7049	2.7063

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	4.4973	4.4836	1855.0	18650	8.9663	9.0035
1880.0	18900	4.5012	4.4889	1880.0	18900	8.9928	8.9985
1907.5	19175	4.4880	4.5260	1905.0	19150	9.0159	8.9911

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	13.446	13.4880	1860.0	18700	17.935	17.945
1880.0	18900	13.505	13.4650	1880.0	18900	17.923	18.053
1902.5	19125	13.505	13.4330	1900.0	19100	17.890	17.879

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.1044	1.1023	1711.5	19965	2.6996	2.7045
1732.5	20175	1.1013	1.1001	1732.5	20175	2.6904	2.6898
1754.3	20393	1.1016	1.1004	1753.5	20385	2.6990	2.7054

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	4.5148	4.4926	1715.0	20000	8.9856	8.9864
1732.5	20175	4.4906	4.5035	1732.5	20175	8.9867	8.9657
1752.5	20375	4.4823	4.5091	1750.0	20350	8.9756	8.9810

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	13.528	13.510	1720.0	20050	17.983	17.954
1732.5	20175	13.476	13.459	1732.5	20175	17.913	17.955
1747.5	20325	13.486	13.520	1745.0	20300	17.935	17.937

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.0972	1.1013	825.5	20415	2.6985	2.7010
836.5	20525	1.1038	1.0989	836.5	20525	2.6981	2.7107
848.3	20643	1.1056	1.0995	847.5	20635	2.7093	2.7016

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
826.5	20425	4.5055	4.4830	829.0	20450	9.0166	9.0075
836.5	20525	4.5057	4.4997	836.5	20525	8.9910	8.9792
846.5	20625	4.4984	4.5192	844.0	20600	8.9642	8.9751

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
779.5	23205	4.5000	4.4870	23230	782	9.0095	8.9836
782.0	23230	4.4984	4.5077				
782.0	23255	4.5004	4.4938				

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LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency (MHz)	CH	99% Bandwidth (MHz)	99% Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
706.5	23755	4.5093	4.4826	709.0	23780	8.9781	8.9421
710.0	23790	4.4783	4.5026	710.0	23790	8.9571	8.9283
713.5	23825	4.5162	4.5152	711.0	23780	9.0117	8.9654

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26dB Bandwidth

LTE BAND 2							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1850.7	18607	1.384	1.333	1851.5	18615	2.960	2.992
1880.0	18900	1.316	1.386	1880.0	18900	2.949	3.009
1909.3	19193	1.377	1.334	1908.5	19185	3.006	2.991

LTE BAND 2							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1852.5	18625	4.955	4.843	1855.0	18650	9.965	10.02
1880.0	18900	4.923	4.985	1880.0	18900	10.04	10.14
1907.5	19175	5.044	5.010	1905.0	19150	10.03	10.09

LTE BAND 2							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1857.5	18675	15.05	15.58	1860.0	18700	19.96	19.73
1880.0	18900	15.42	15.13	1880.0	18900	19.77	20.63
1902.5	19125	15.45	15.12	1900.0	19100	20.05	19.87

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LTE BAND 4							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1710.7	19957	1.325	1.323	1711.5	19965	2.979	2.978
1732.5	20175	1.333	1.326	1732.5	20175	2.952	2.998
1754.3	20393	1.339	1.354	1753.5	20385	3.035	3.002

LTE BAND 4							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1712.5	19957	5.007	4.966	1715.0	20000	9.827	10.09
1732.5	20175	4.960	5.022	1732.5	20175	10.08	10.10
1752.5	20375	4.971	4.941	1750.0	20350	9.908	9.864

LTE BAND 4							
Channel bandwidth: 15MHz				Channel bandwidth: 20MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
1717.5	20025	15.63	15.24	1720.0	20050	20.52	20.51
1732.5	20175	15.31	15.67	1732.5	20175	20.24	20.01
1747.5	20325	15.43	15.08	1745.0	20300	19.66	20.01

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LTE BAND 5							
Channel bandwidth: 1.4MHz				Channel bandwidth: 3MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
824.7	20407	1.313	1.300	825.5	20415	3.028	2.987
836.5	20525	1.316	1.366	836.5	20525	3.028	3.013
848.3	20643	1.363	1.407	847.5	20635	2.948	2.943

LTE BAND 5							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
826.5	20425	4.914	5.024	829.0	20450	9.945	10.19
836.5	20525	4.998	4.984	836.5	20525	9.951	10.00
846.5	20625	4.987	4.999	844.0	20600	9.869	9.923

LTE BAND 13							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
779.5	23205	4.955	4.966	23230	782	9.980	10.05
782.0	23230	4.906	4.996				
782.0	23255	4.956	4.949				

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LTE BAND 17							
Channel bandwidth: 5MHz				Channel bandwidth: 10MHz			
Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	Frequency (MHz)	CH	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)
		QPSK	16QAM			QPSK	16QAM
706.5	23755	4.919	5.044	709.0	23780	9.975	9.875
710.0	23790	4.972	4.955	710.0	23790	9.949	9.990
713.5	23825	4.995	5.006	711.0	23780	10.05	9.658

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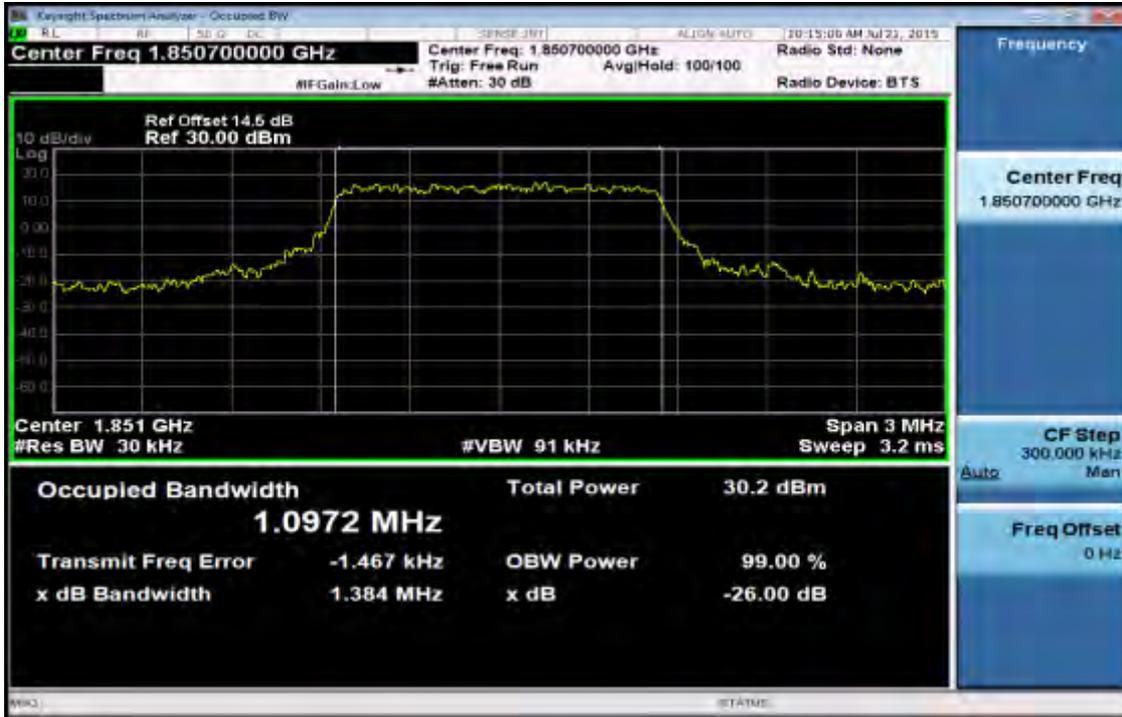
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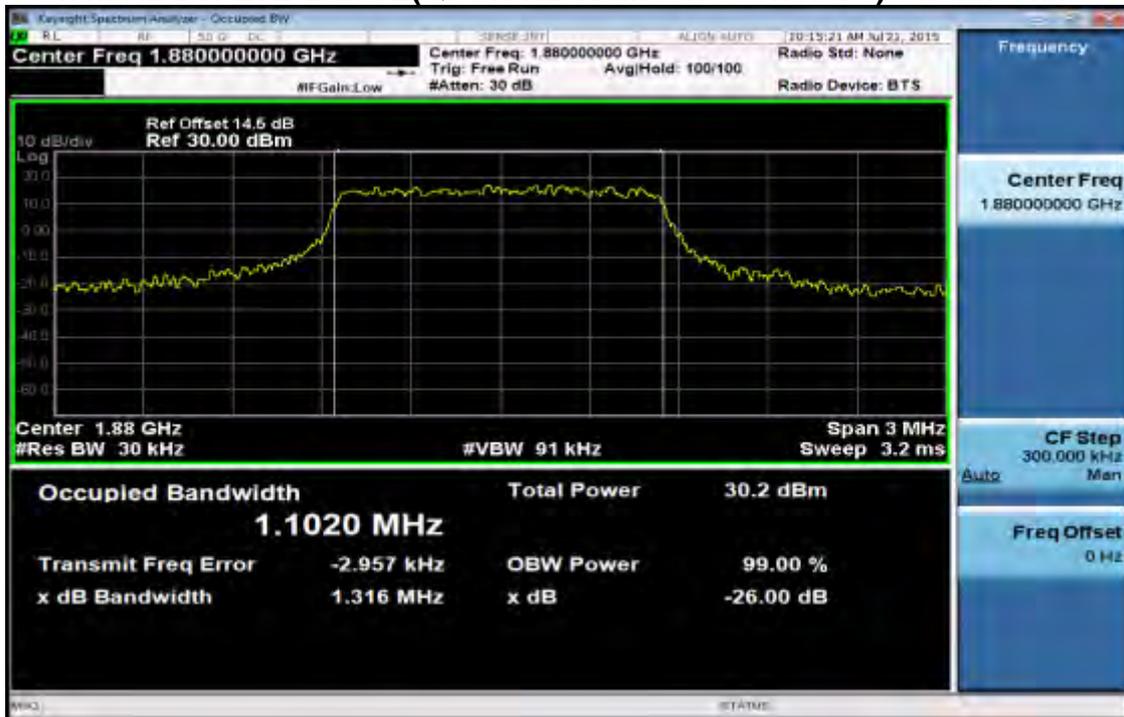
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99% & 26dB Bandwidth Test Data

1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel Mid



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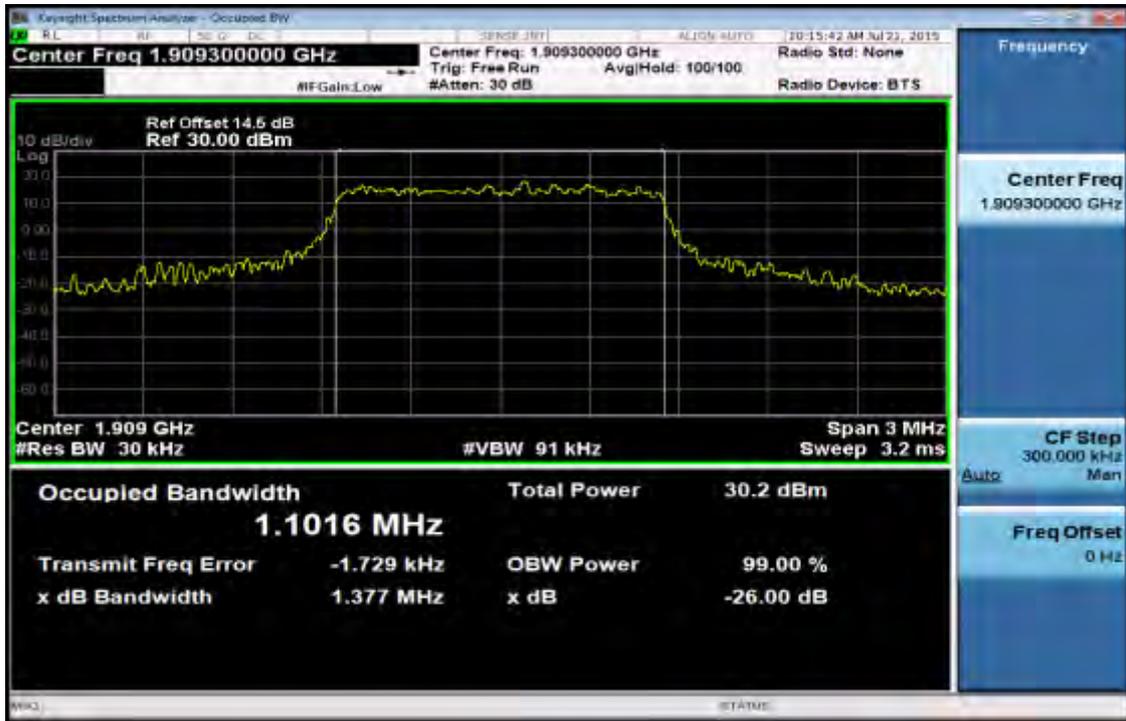
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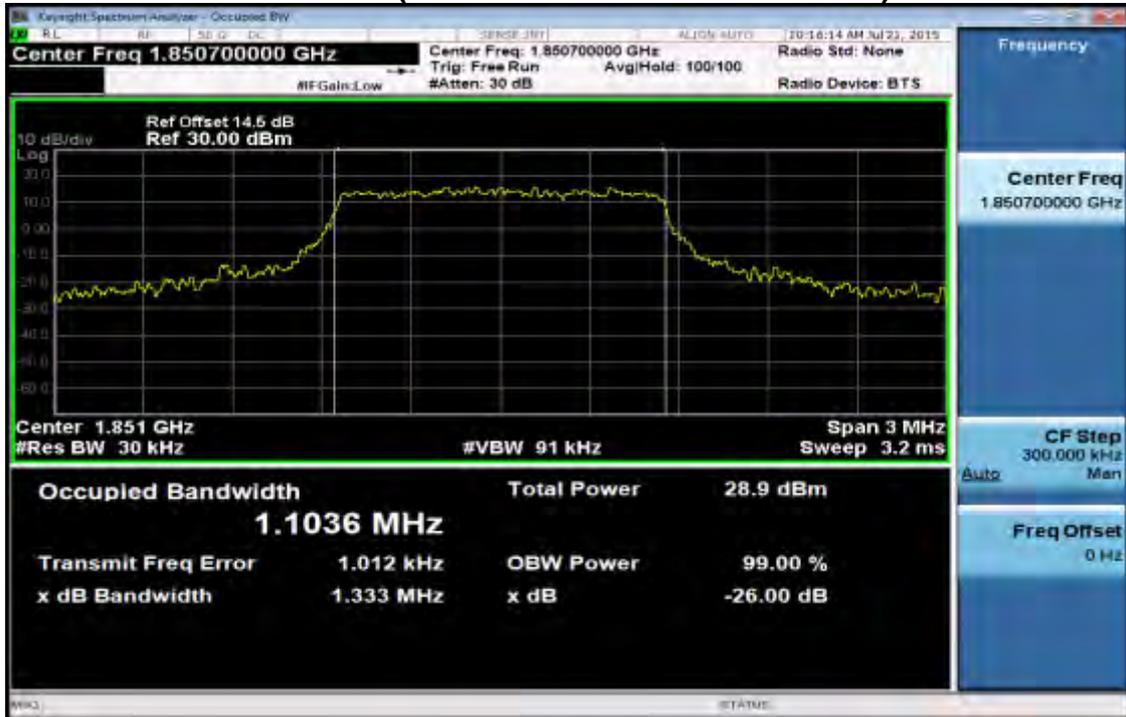
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1.4MHz BW LTE-Band 2(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Low



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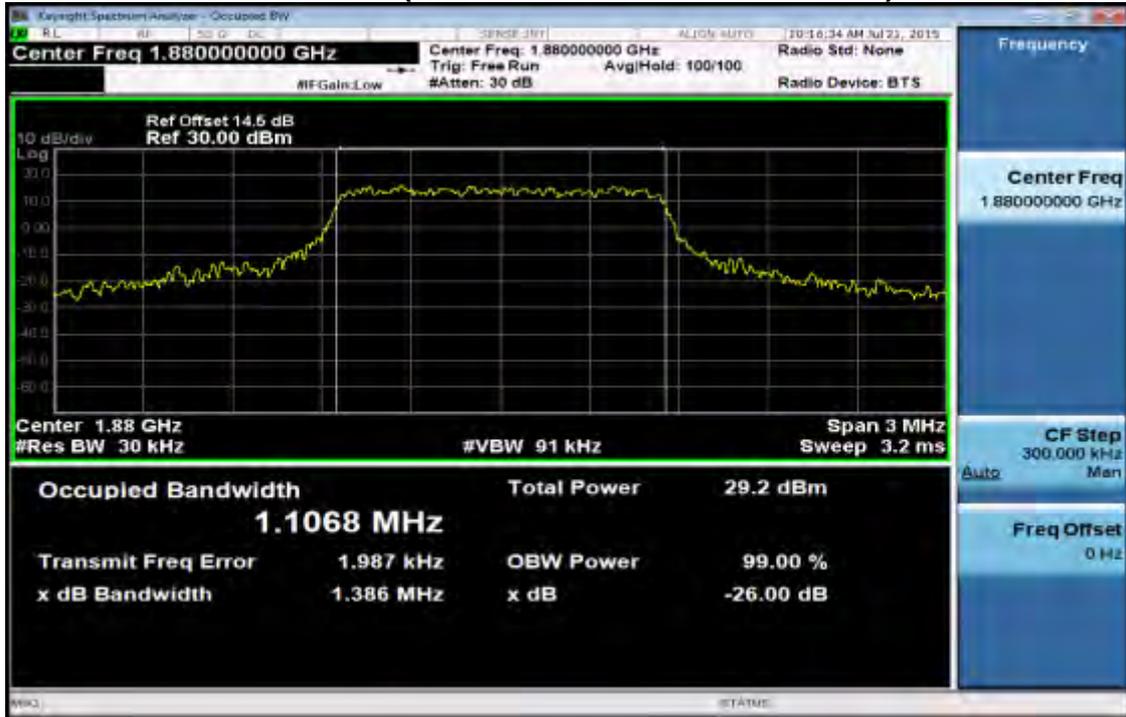
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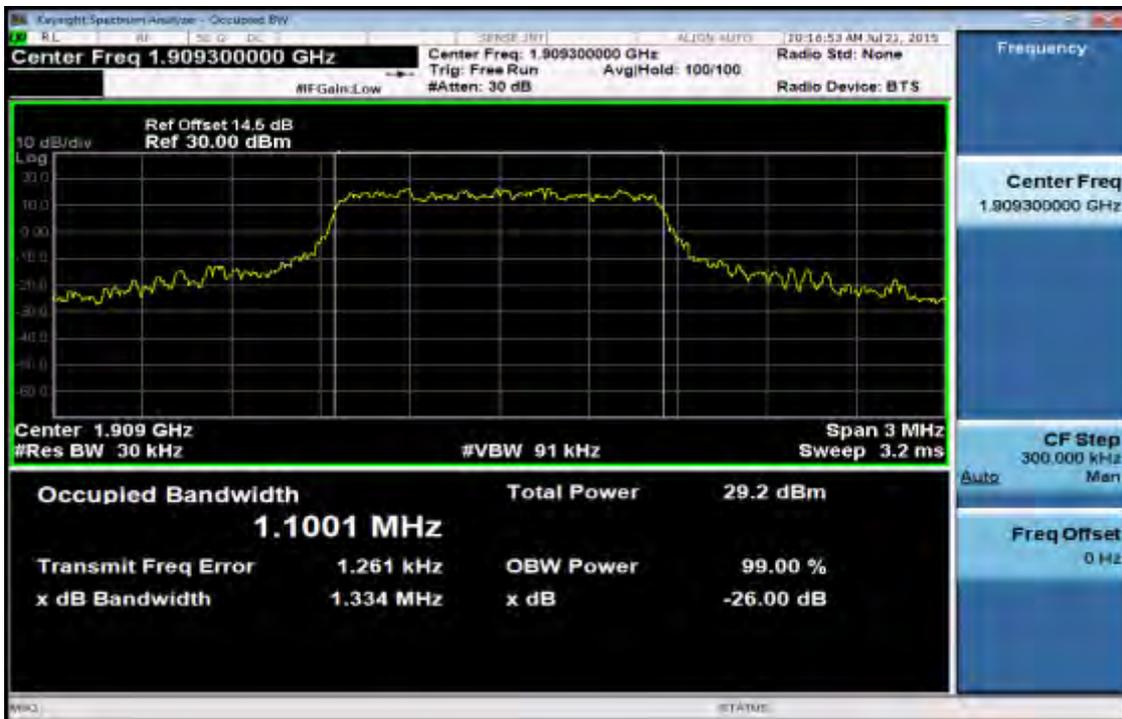
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1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 2(16QAM RB Number: 6 Offset: 0) Channel High



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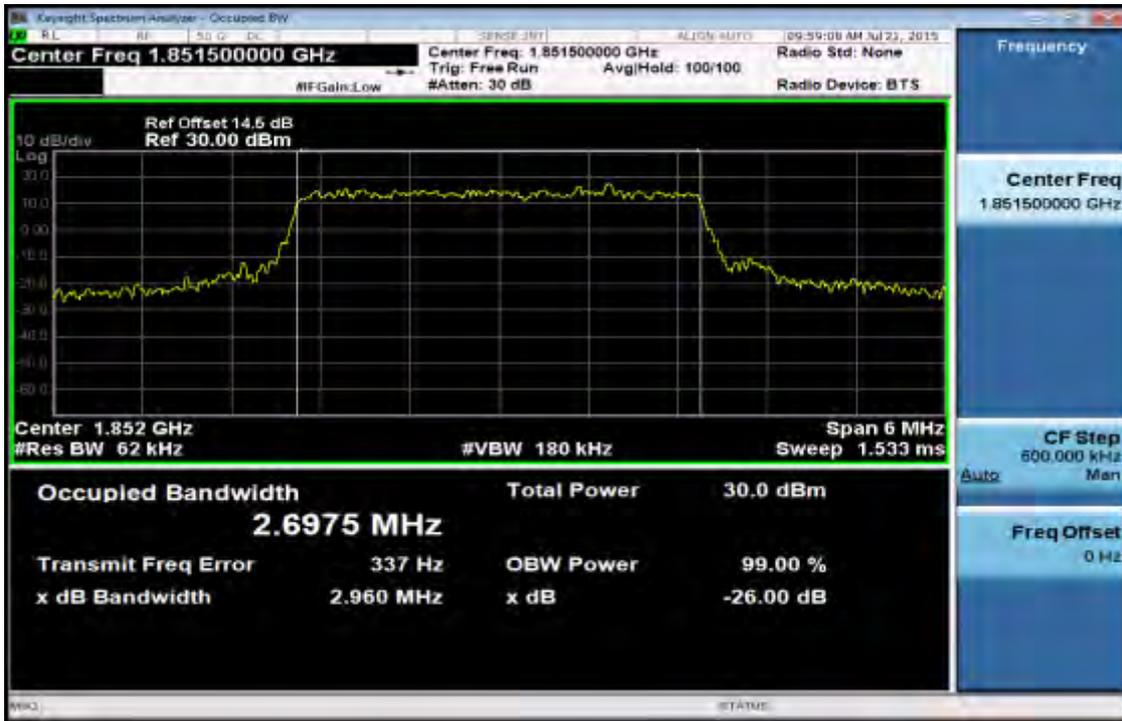
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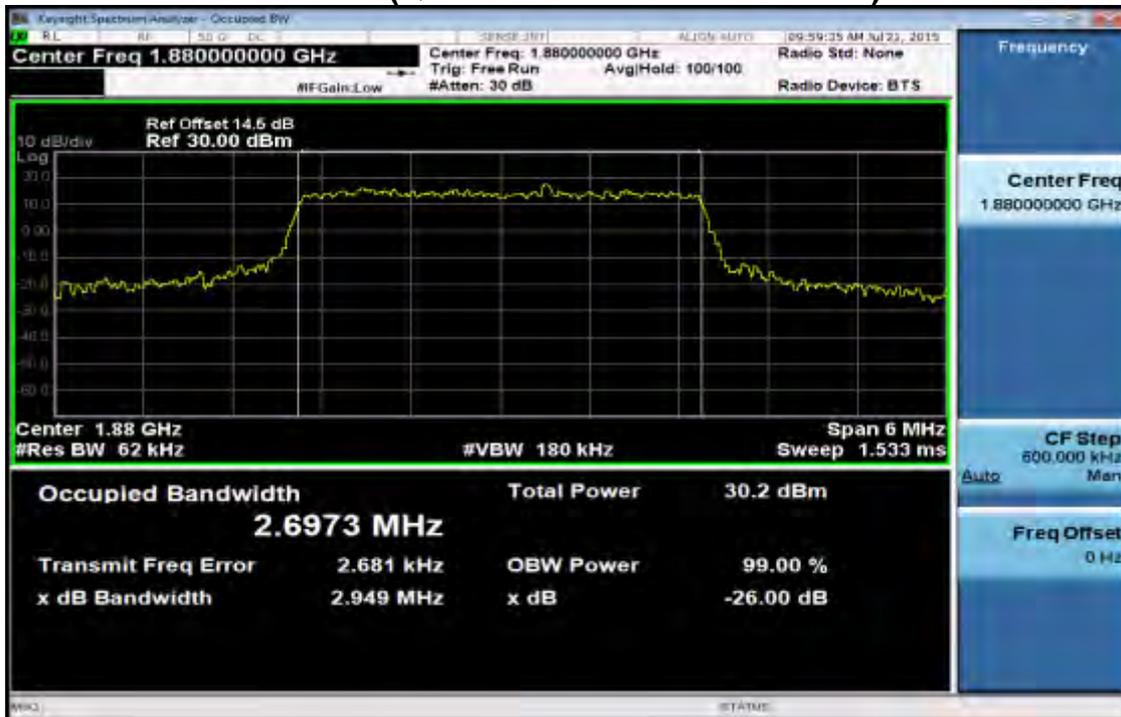
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel Mid



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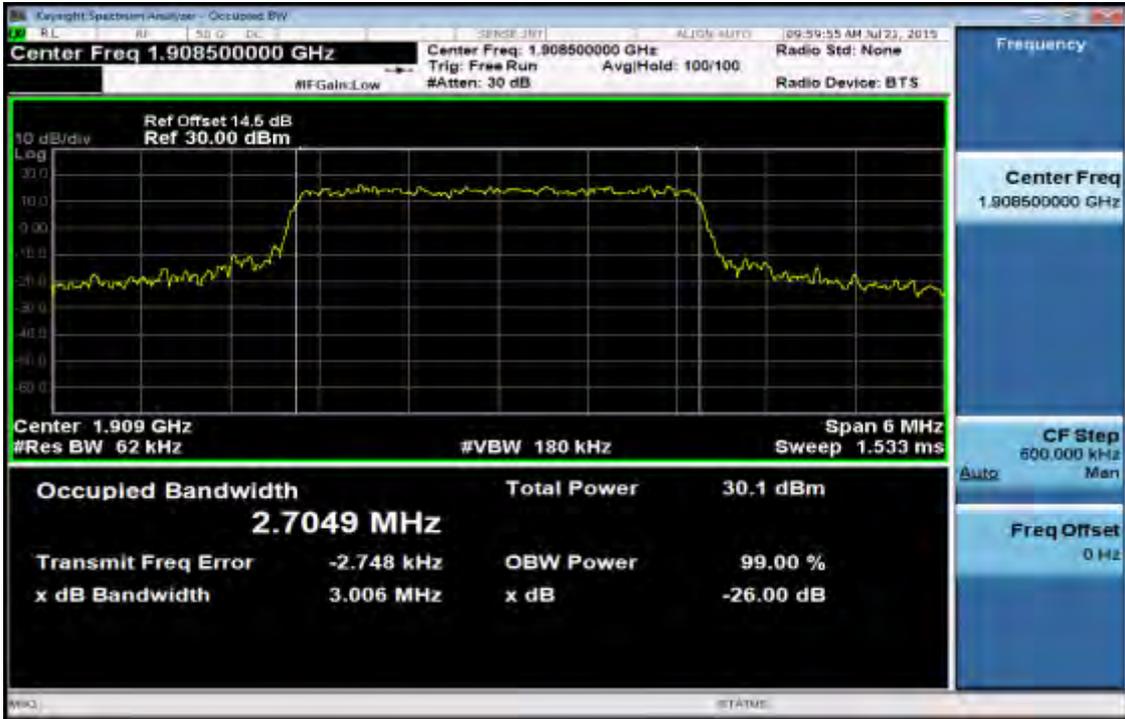
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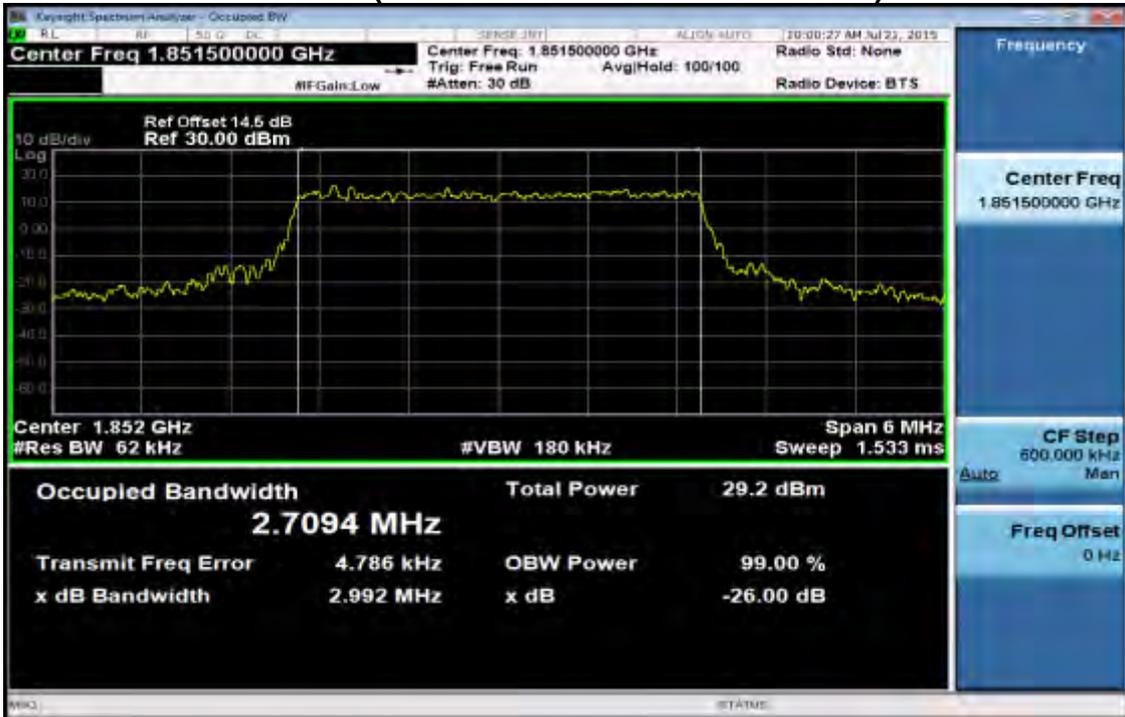
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3MHz BW LTE-Band 2(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Low



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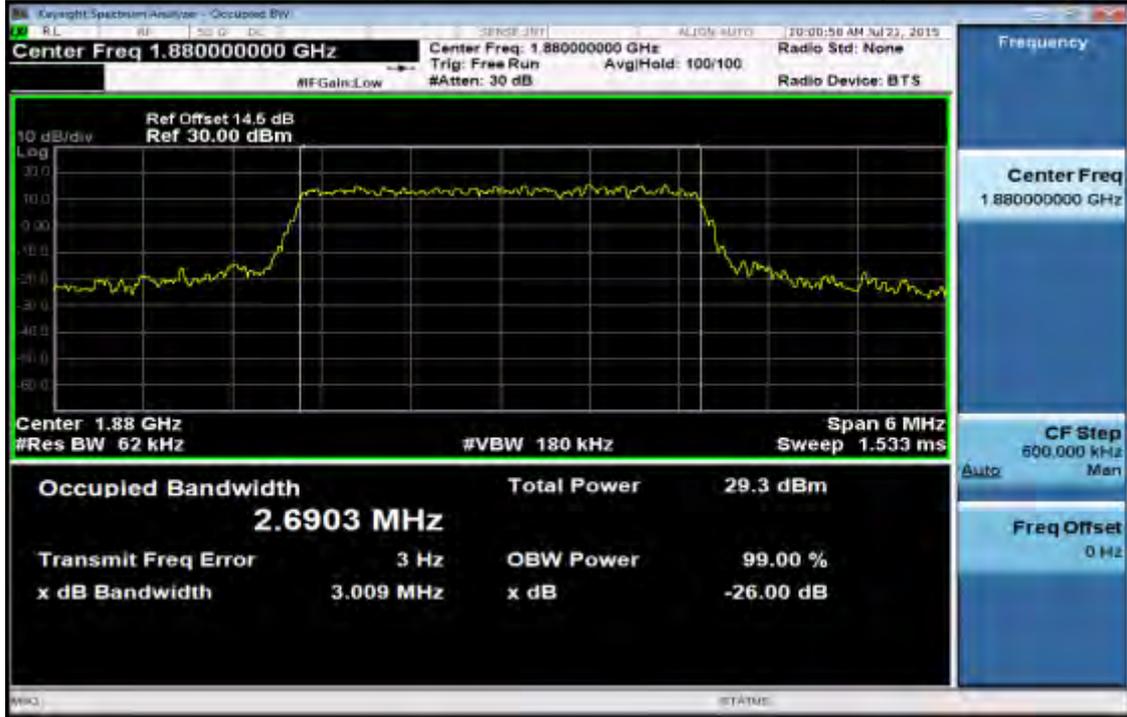
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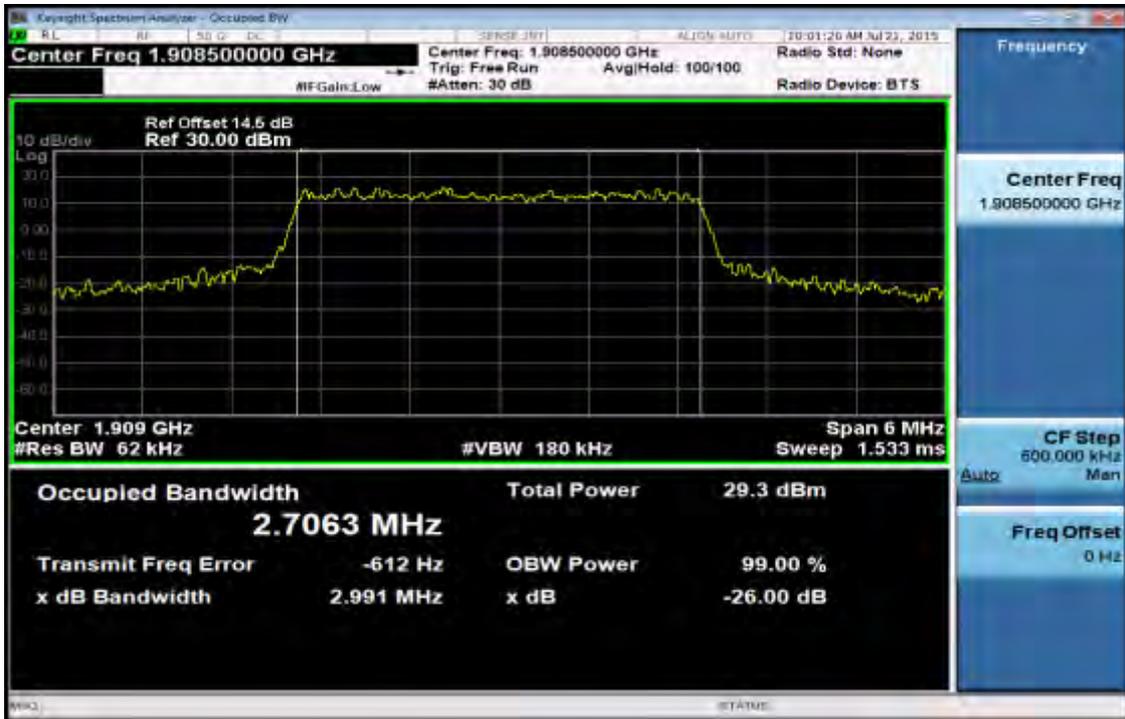
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3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 2(16QAM RB Number: 15 Offset: 0) Channel High



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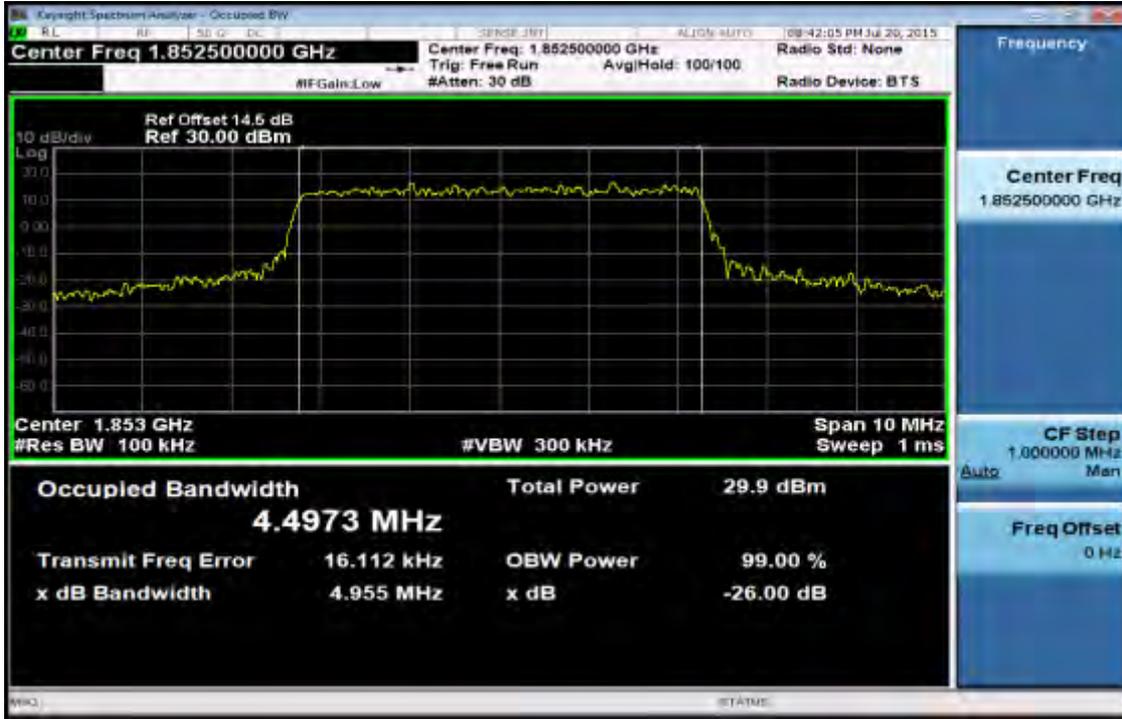
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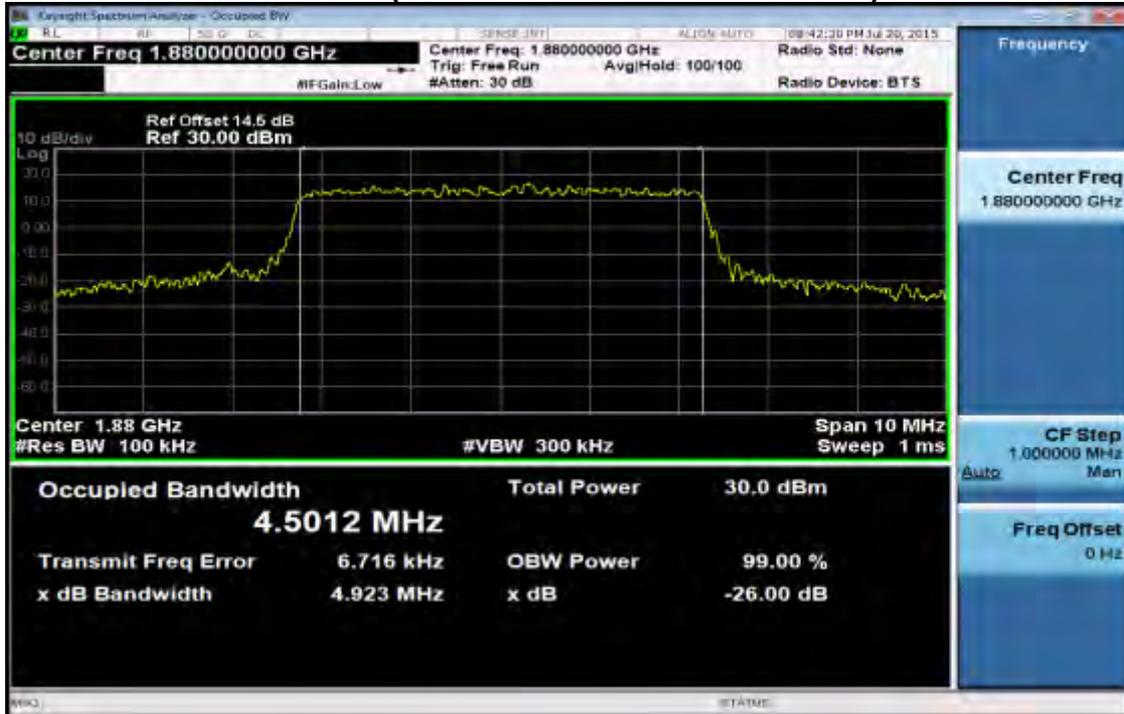
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel Mid



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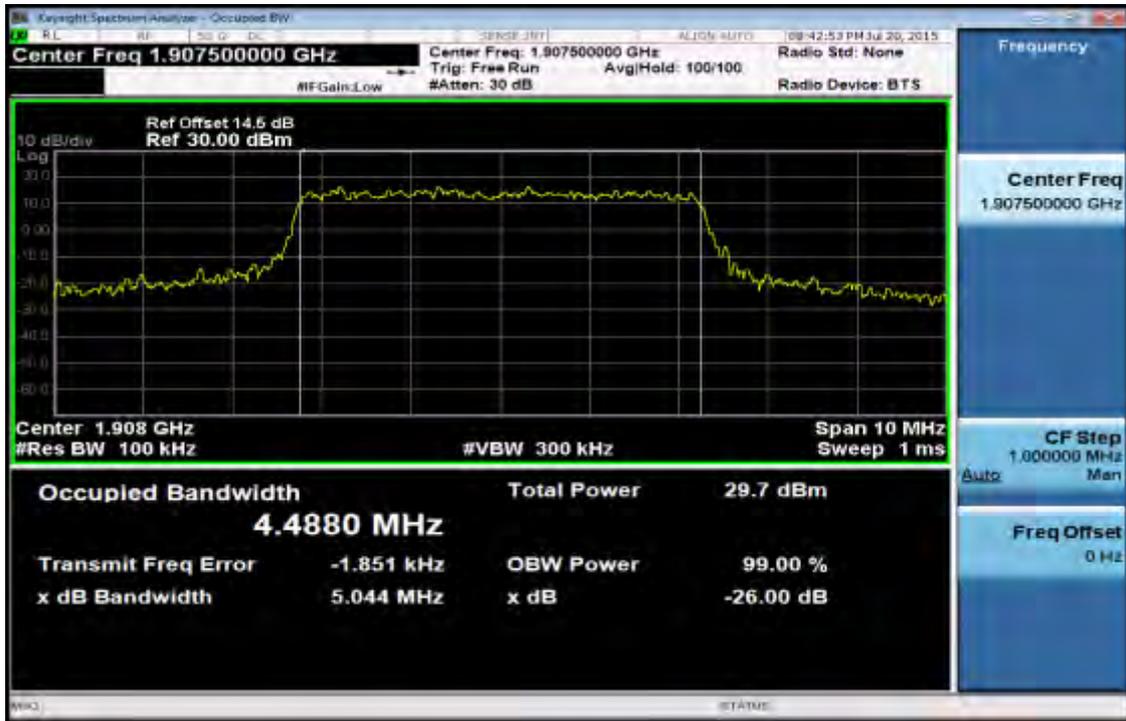
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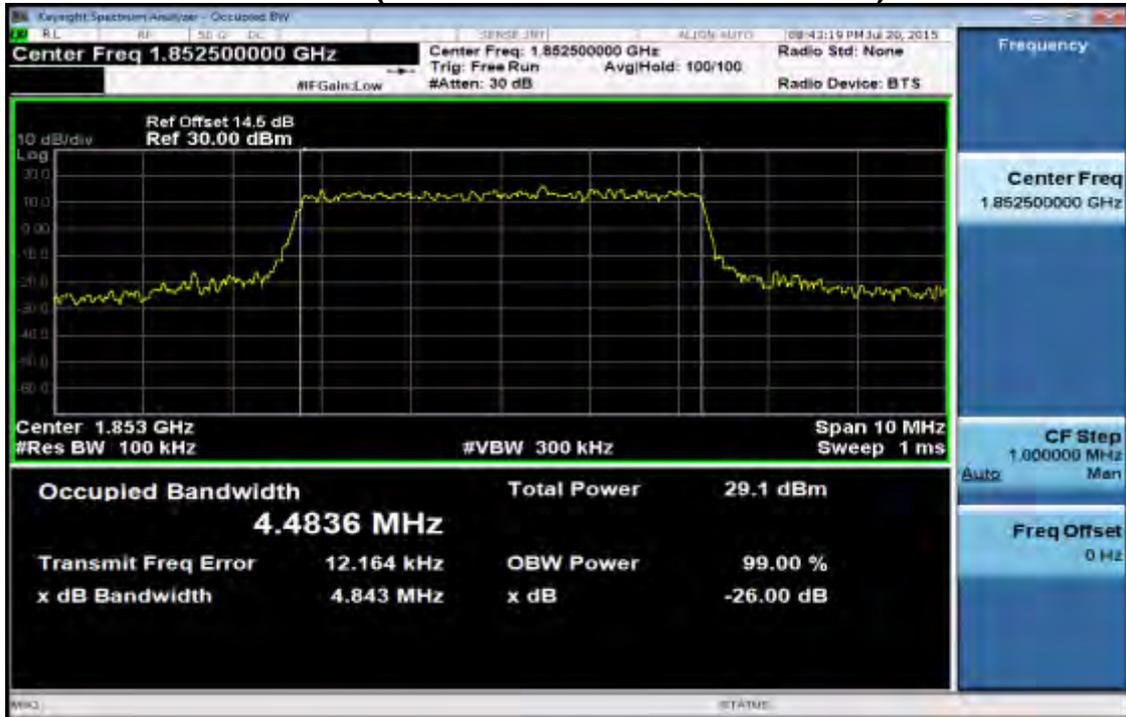
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5MHz BW LTE-Band 2(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Low



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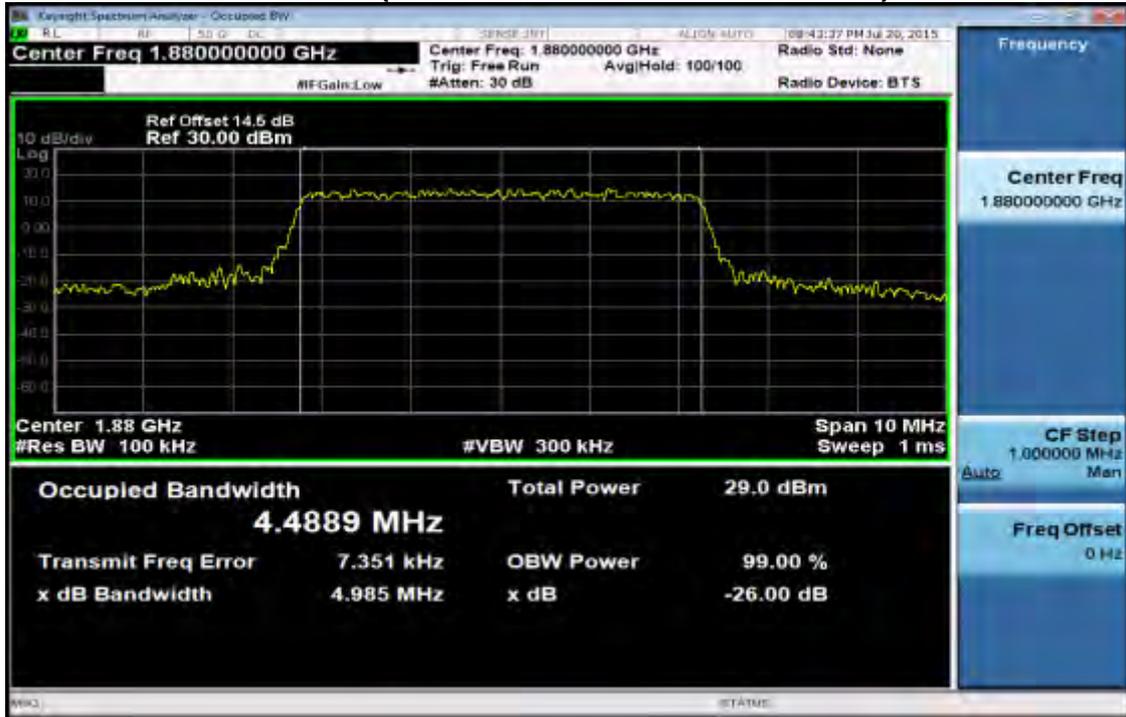
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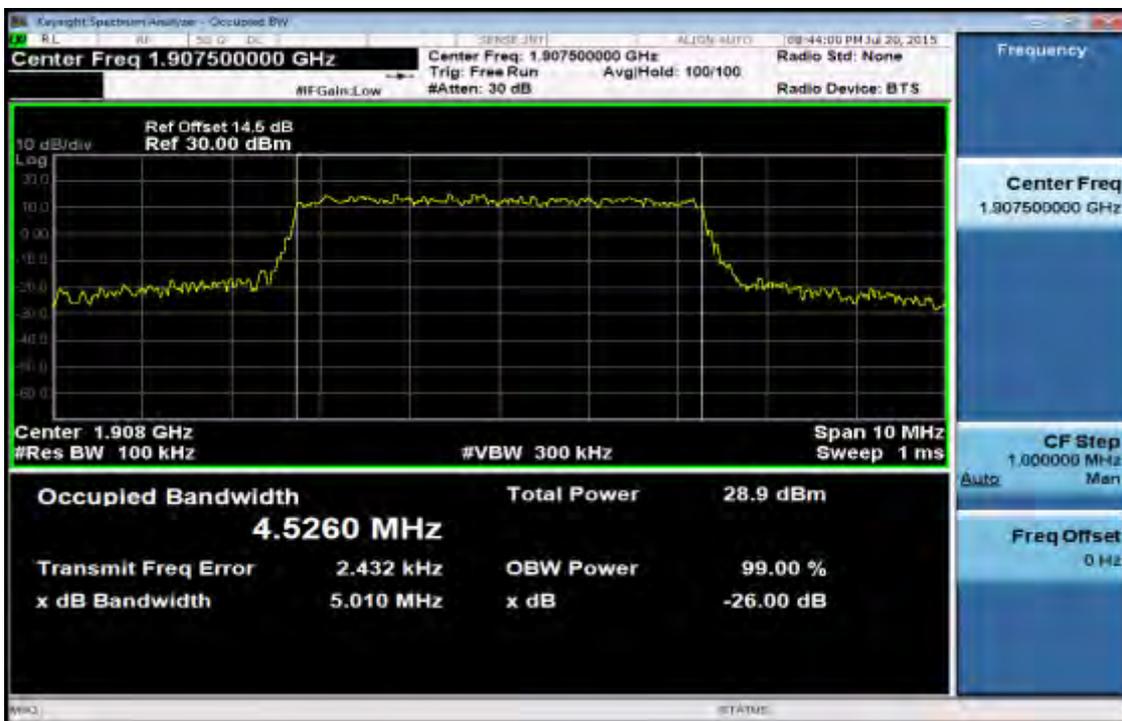
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5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 2(16QAM RB Number: 25 Offset: 0) Channel High



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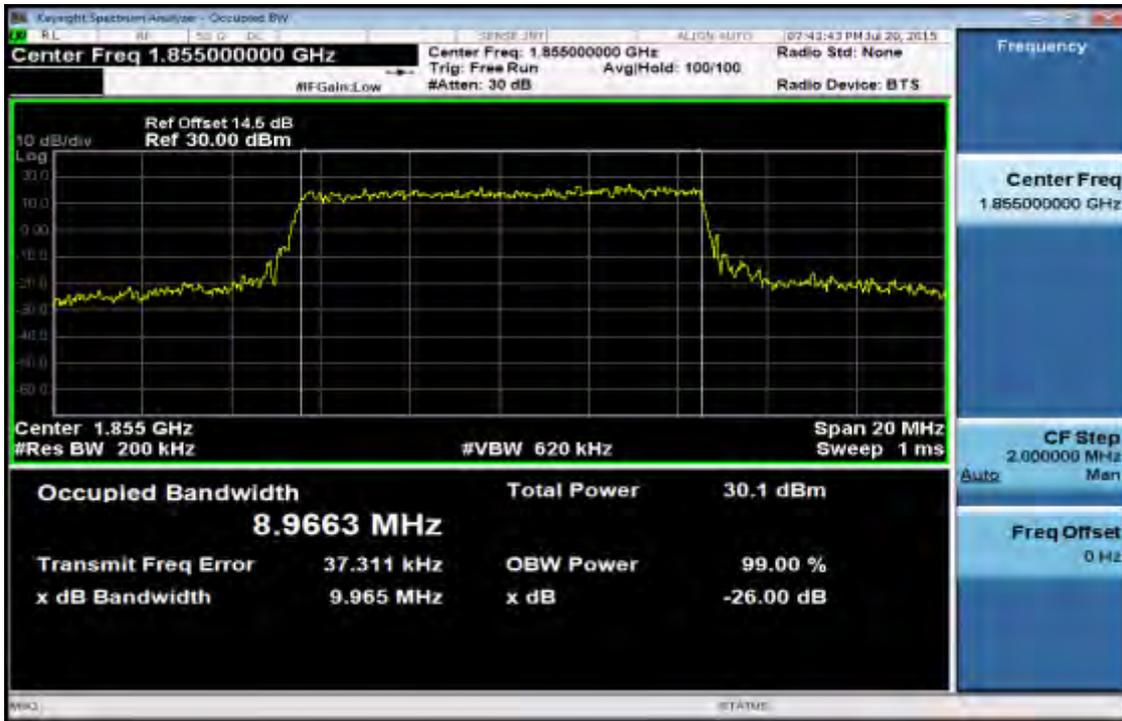
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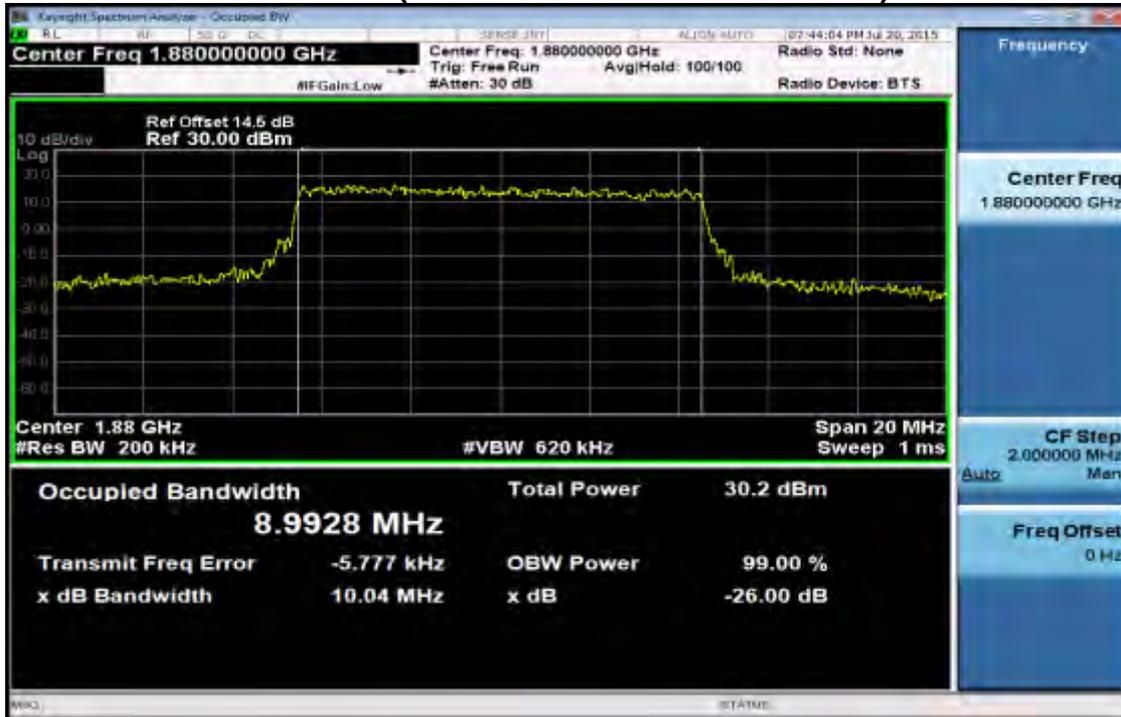
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10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 2(QPSK RB Number: 50 Offset: 0) Channel Mid



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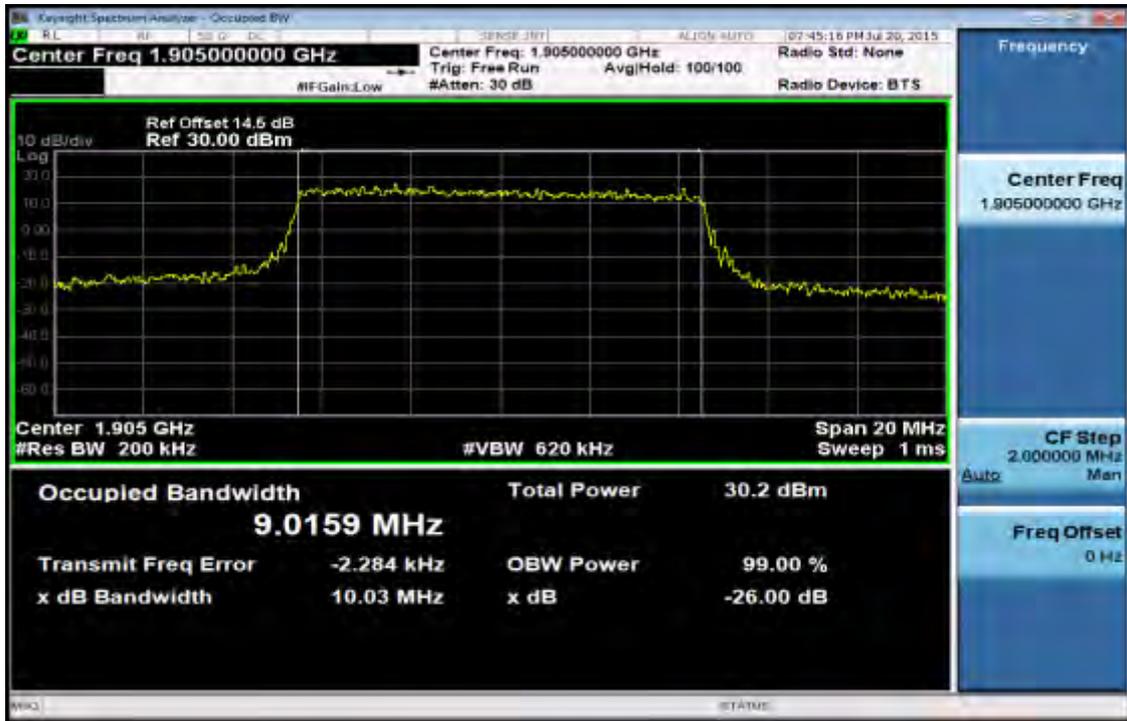
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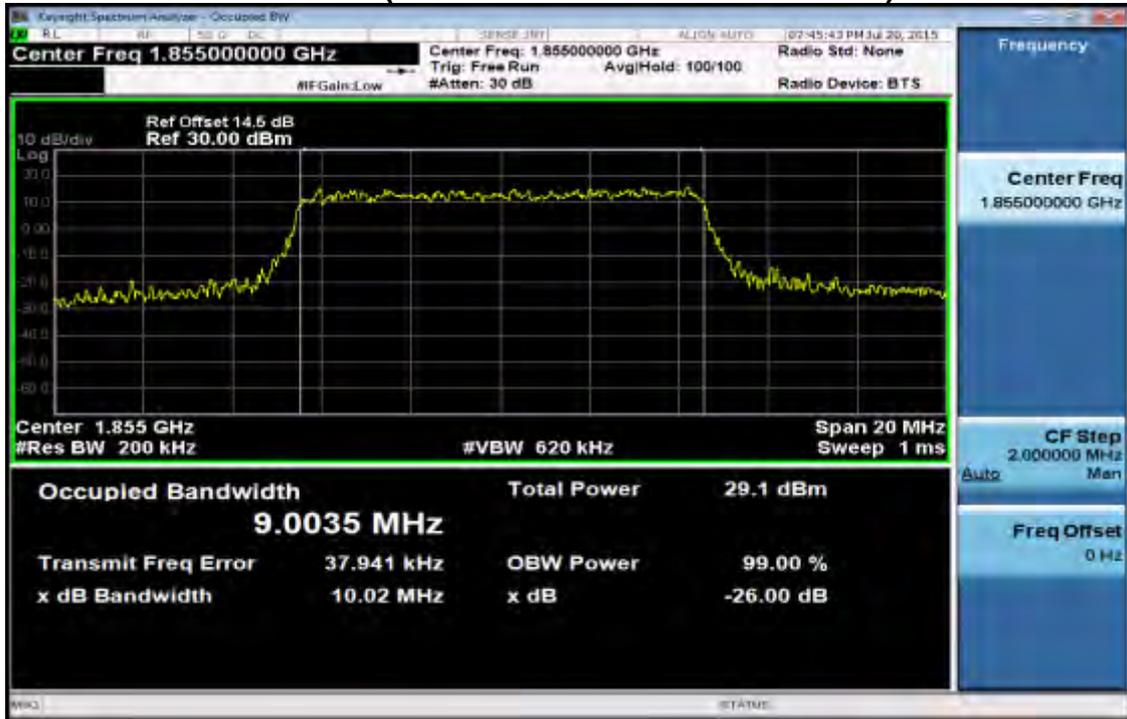
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10MHz BW LTE-Band 2 (QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Low



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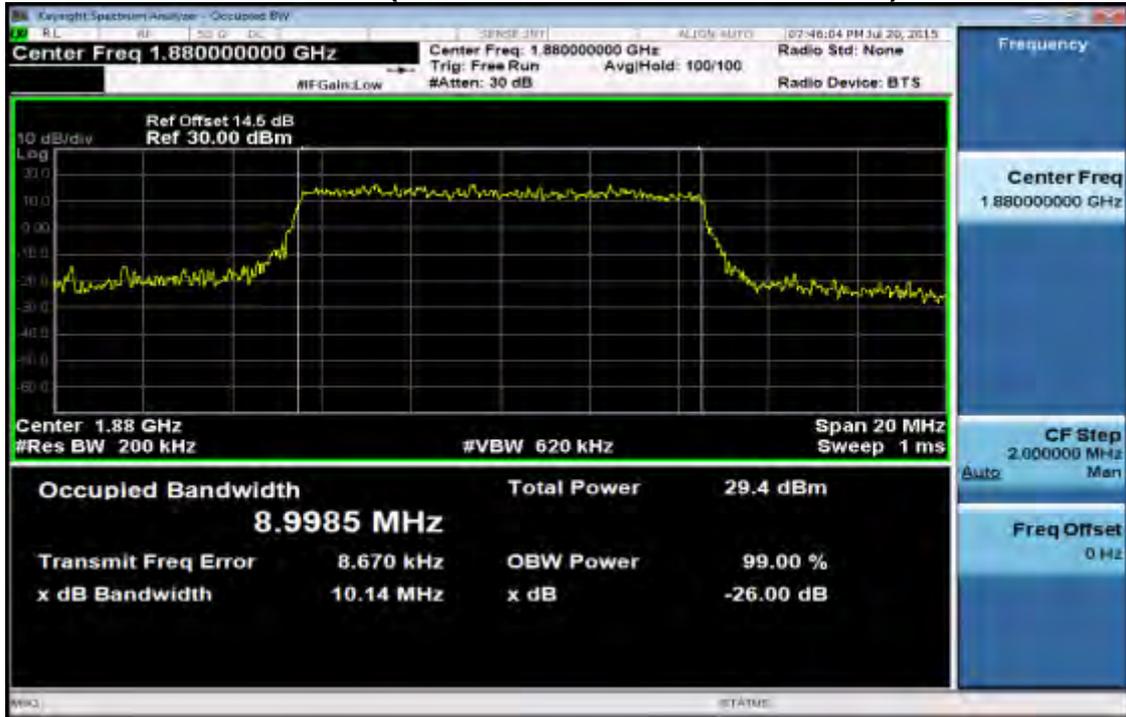
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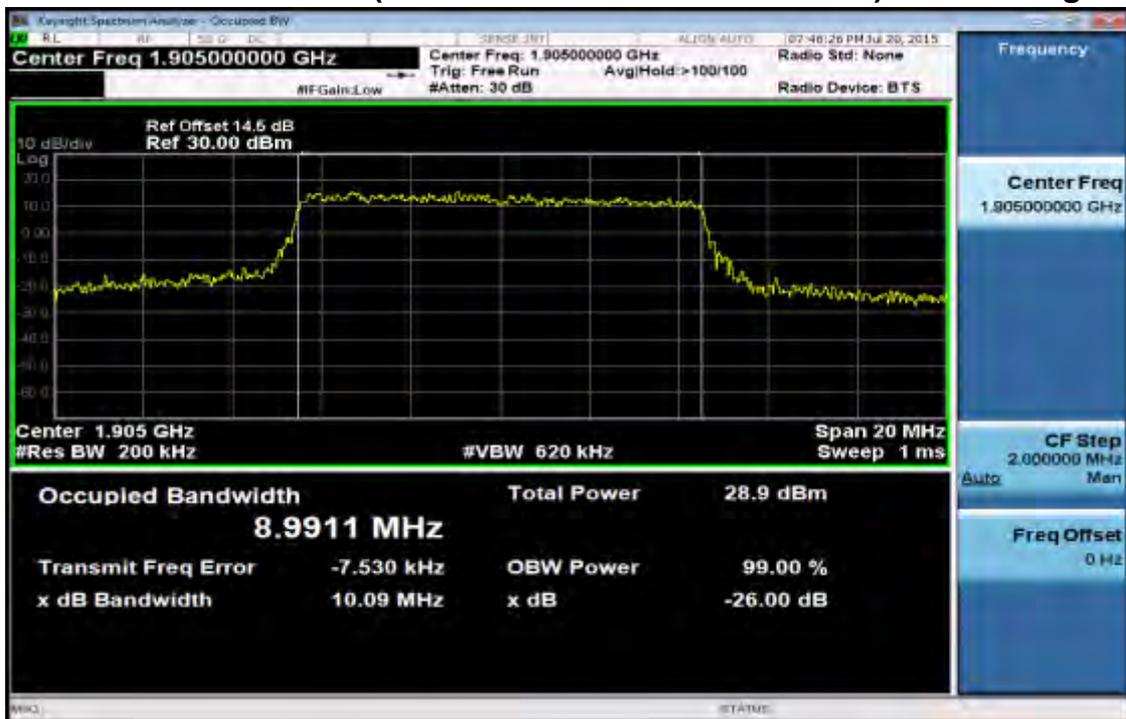
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10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 2(16QAM RB Number: 50 Offset: 0) Channel High



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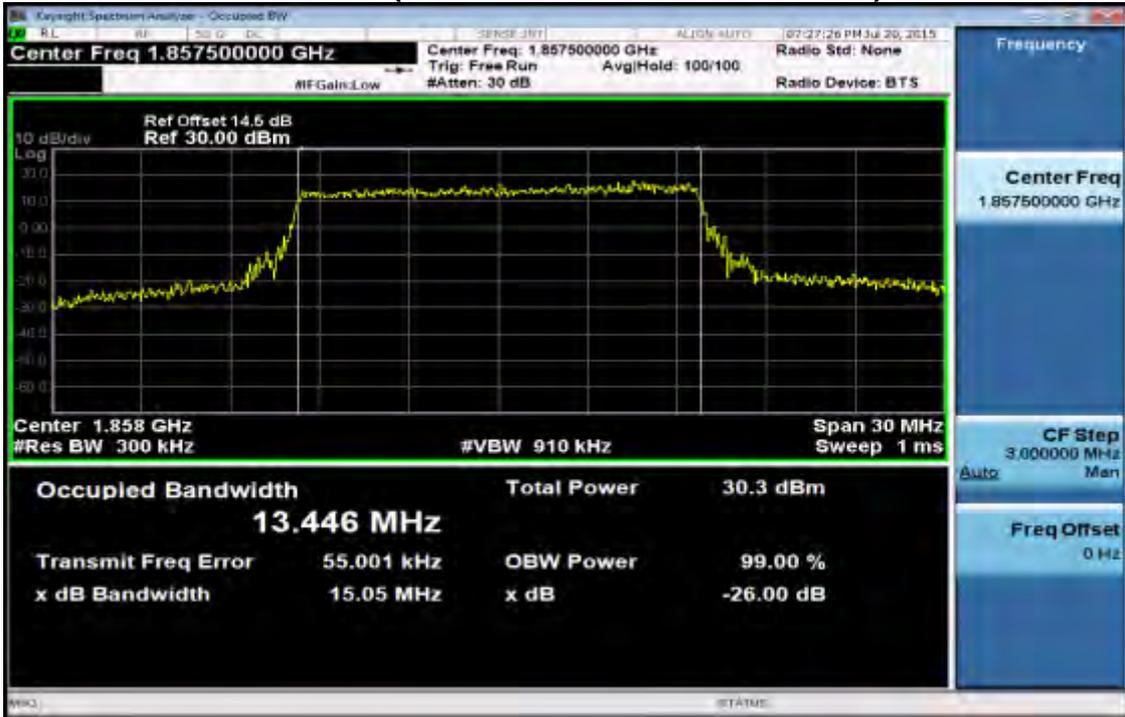
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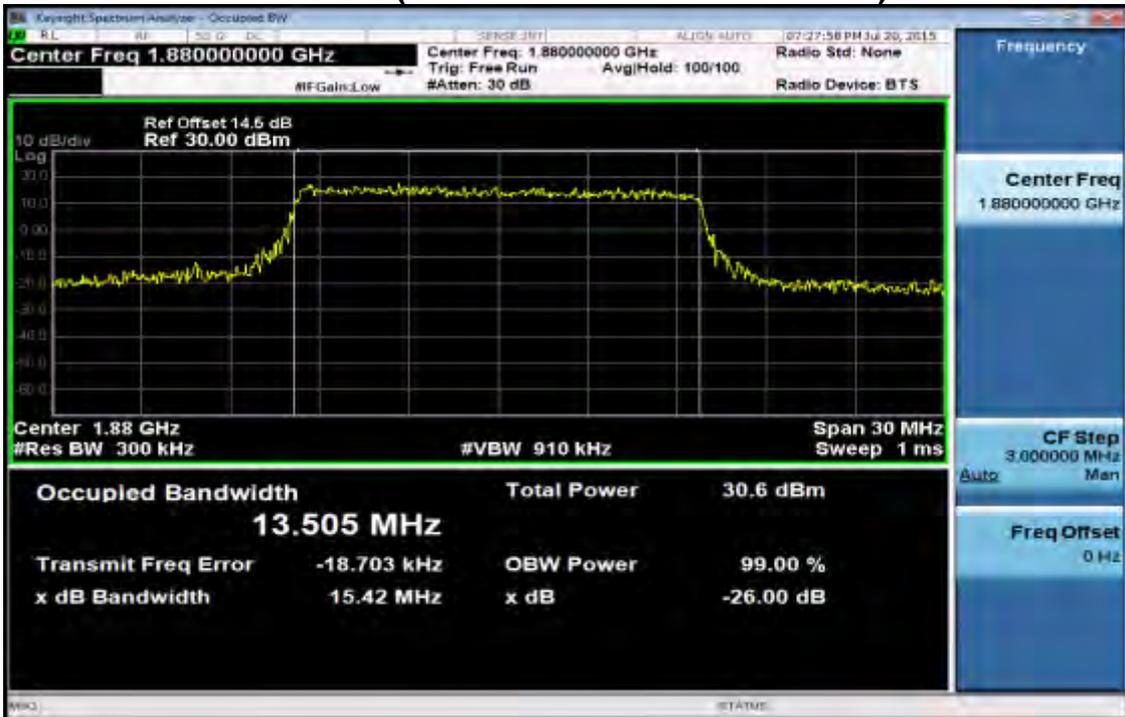
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel Mid



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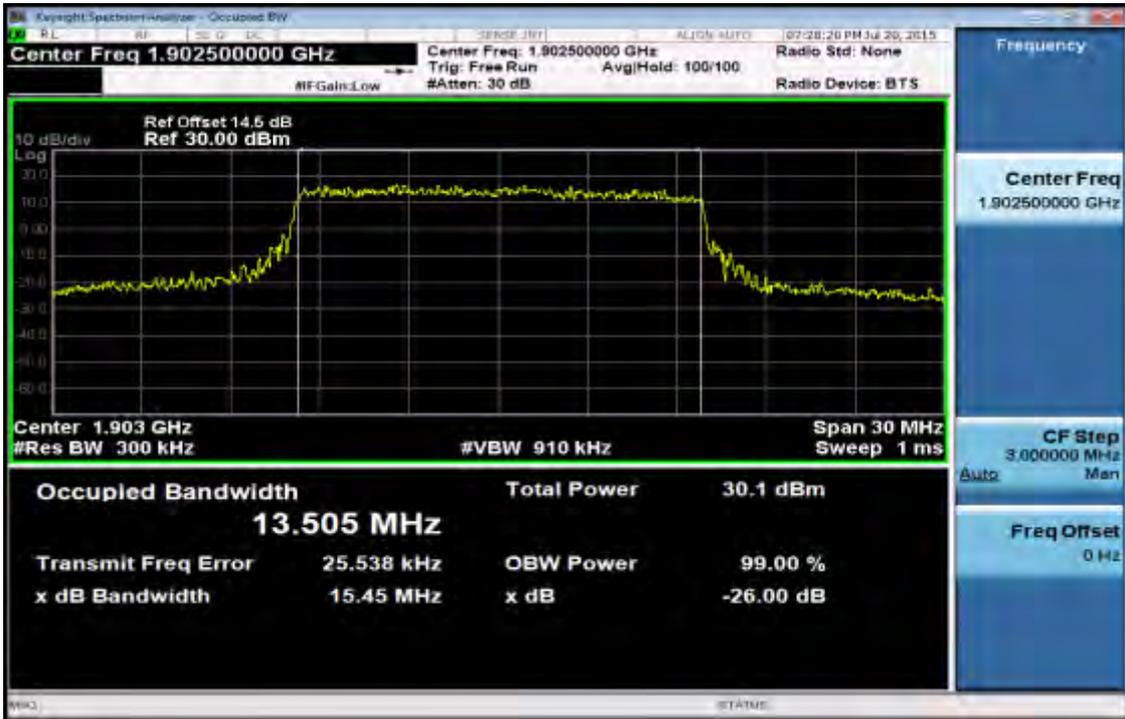
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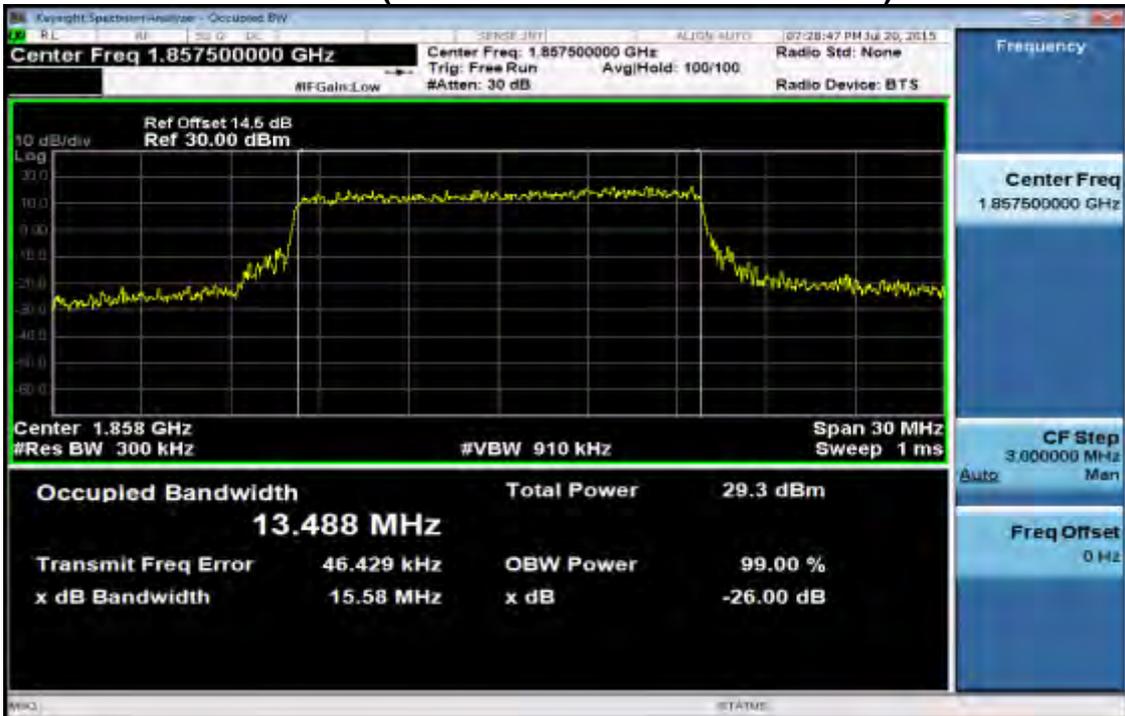
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15MHz BW LTE-Band 2(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Low



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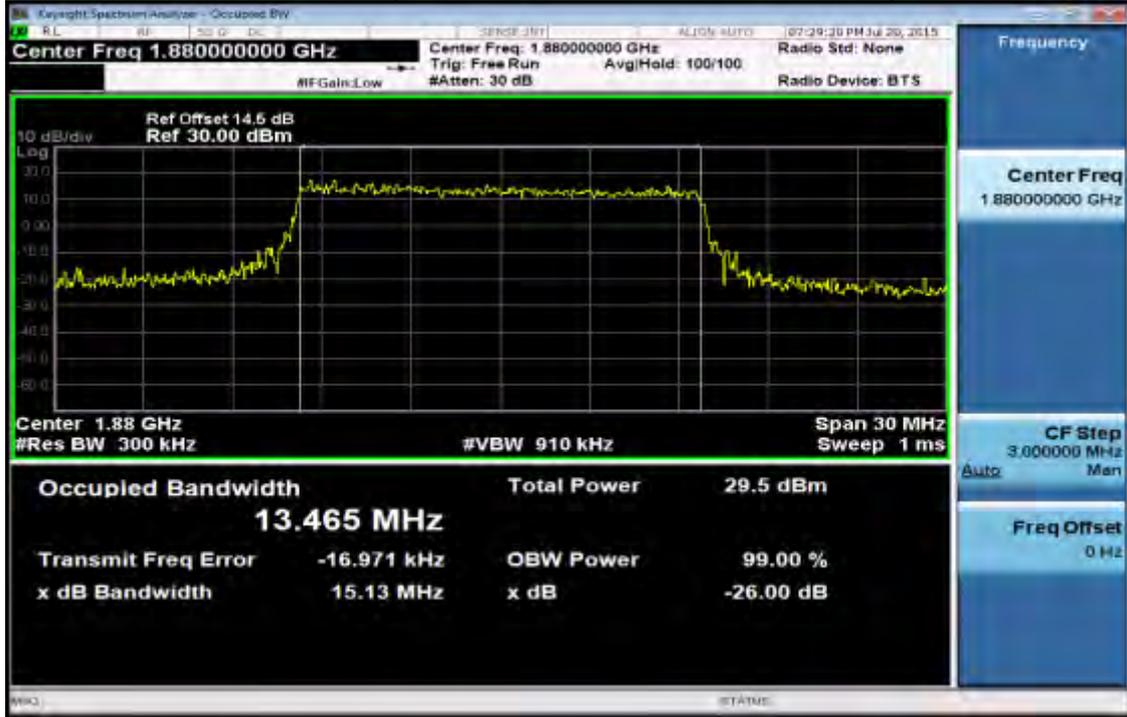
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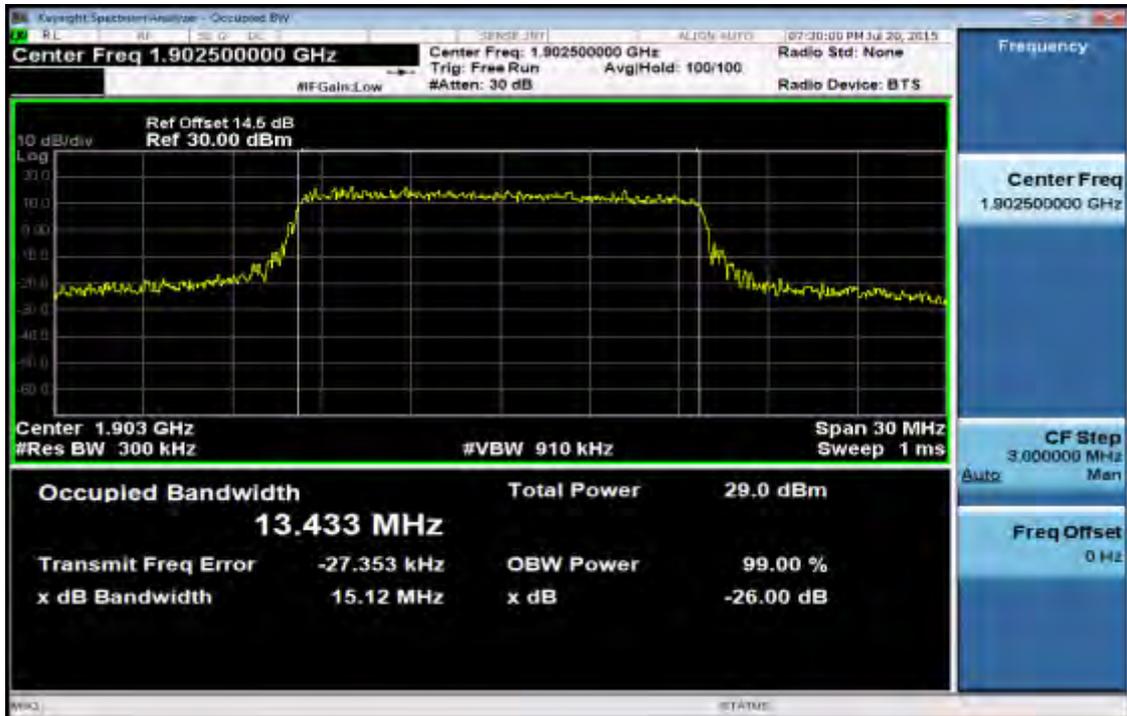
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15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Band 2(16QAM RB Number: 75 Offset: 0) Channel High



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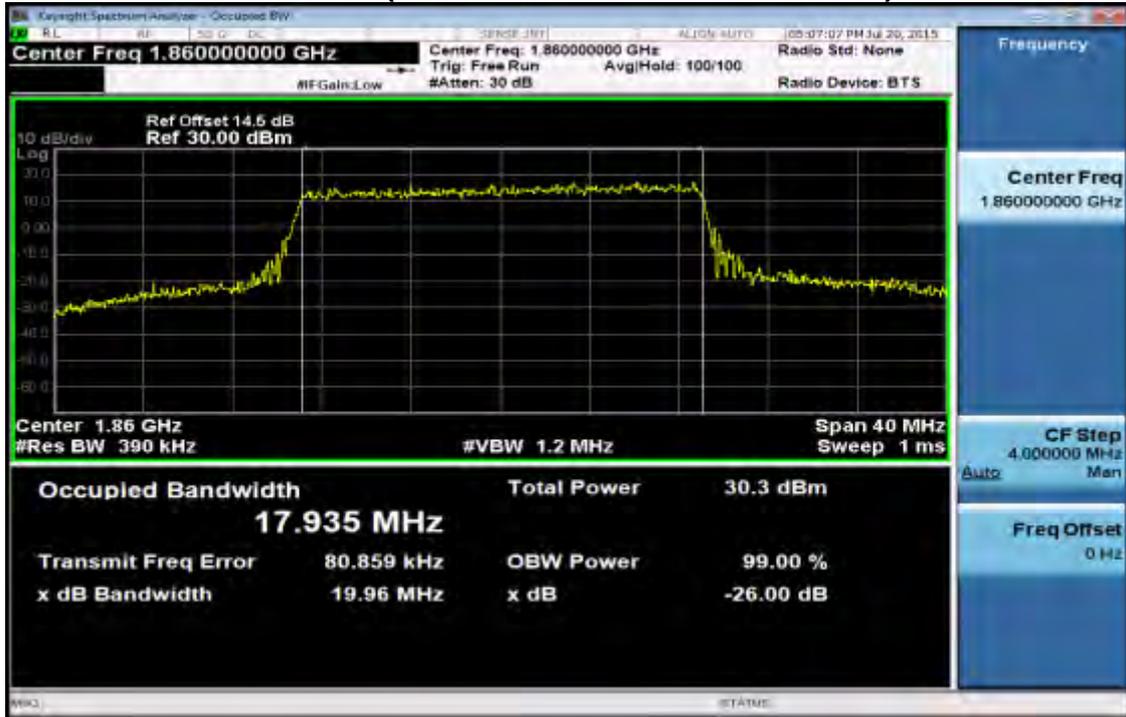
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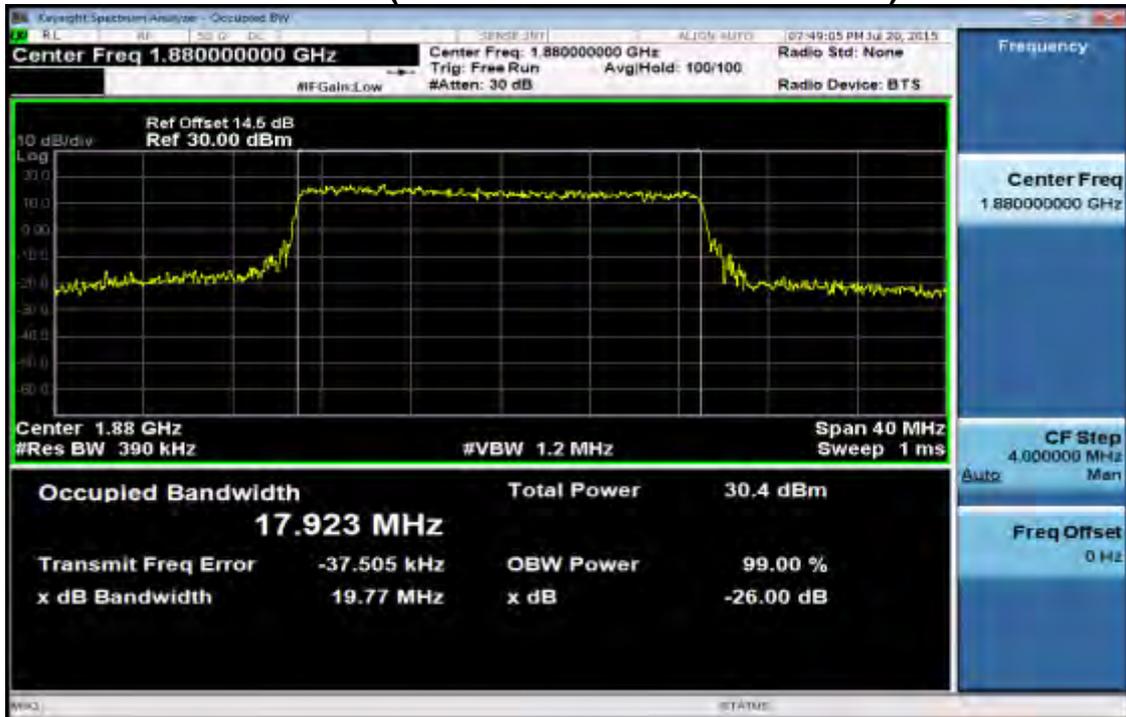
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel Mid



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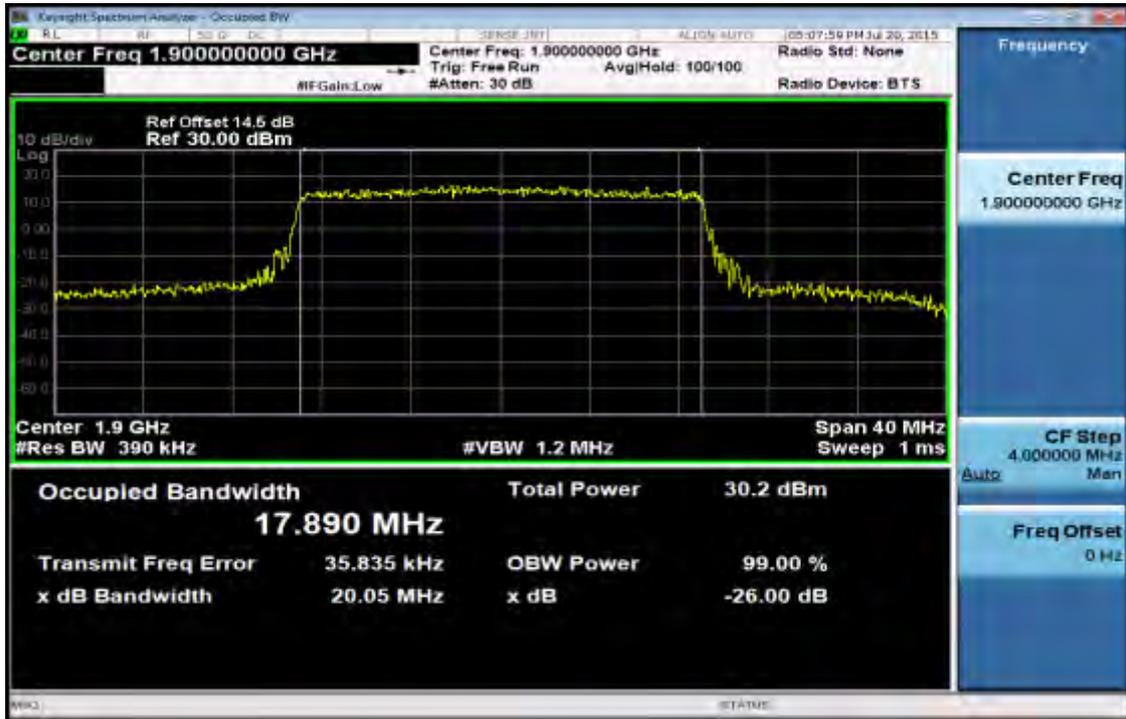
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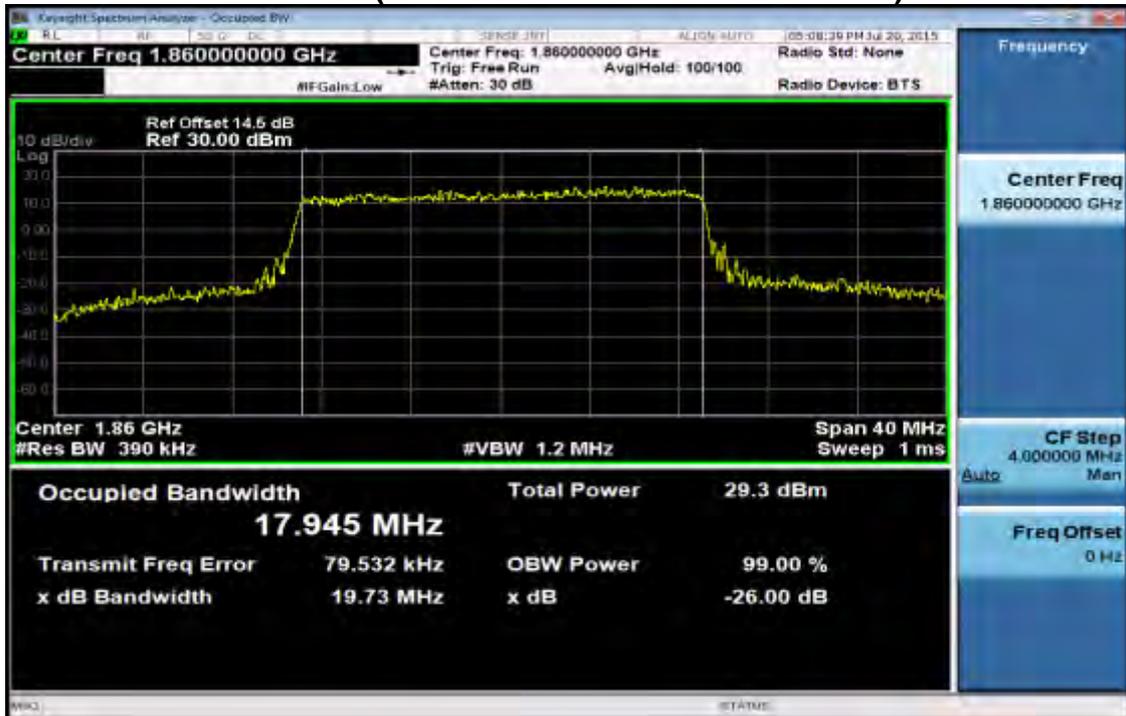
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20MHz BW LTE-Band 2(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Low



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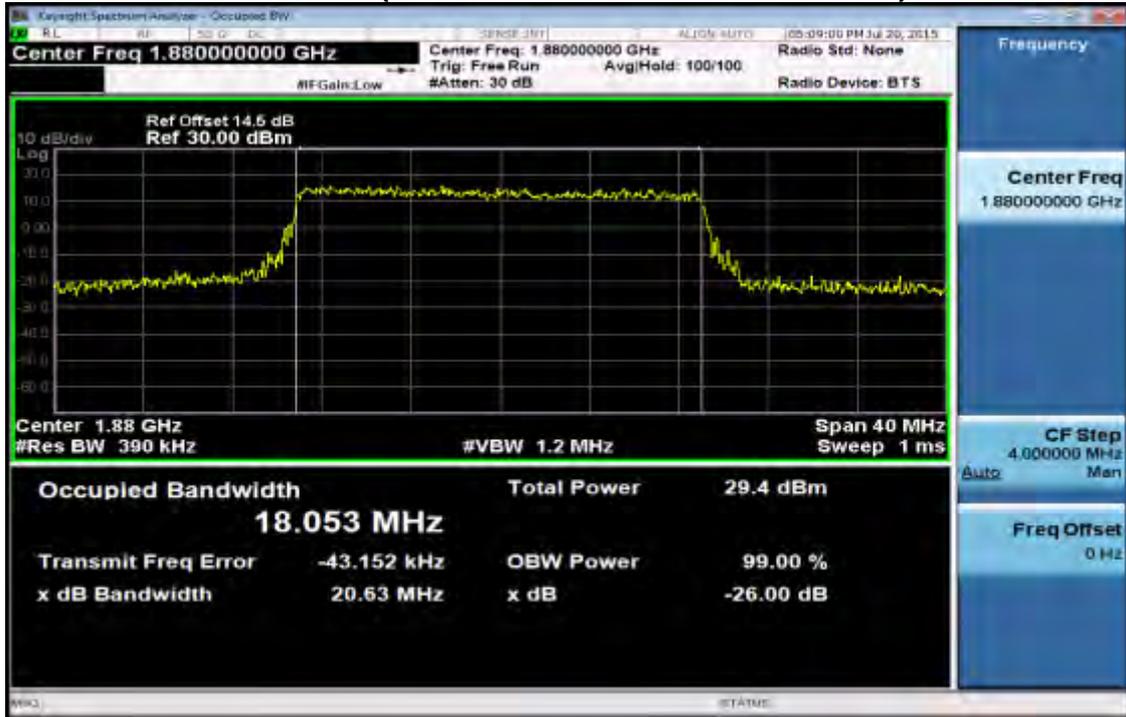
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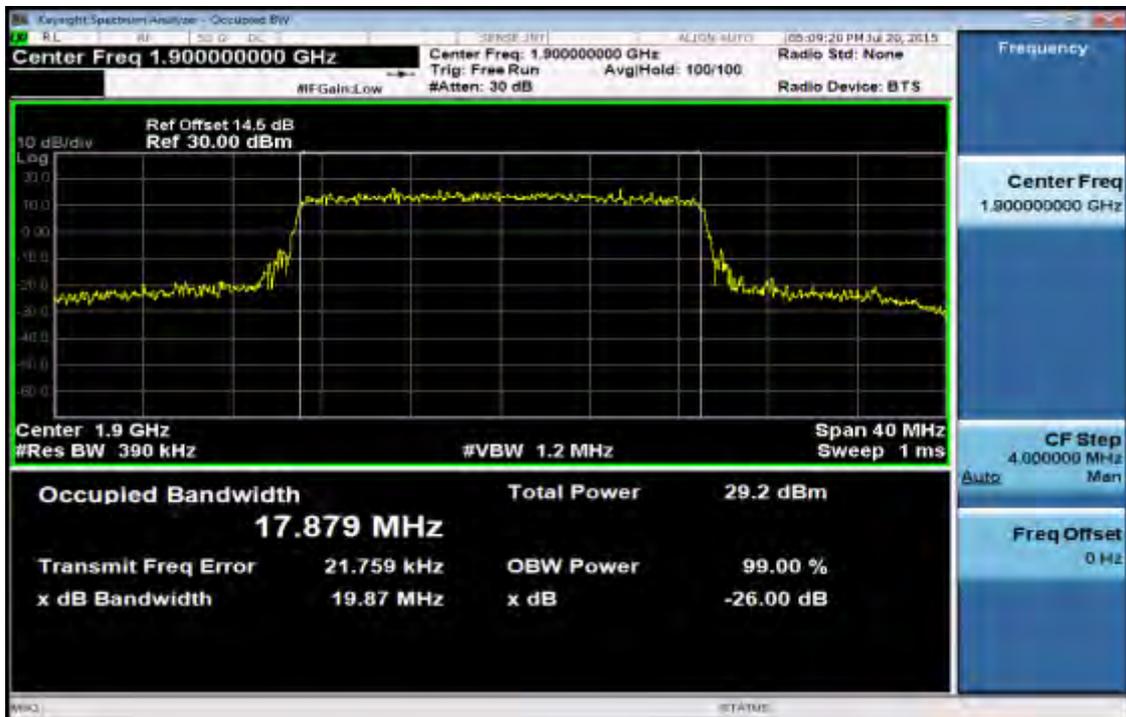
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20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 2(16QAM RB Number: 100 Offset: 0) Channel High



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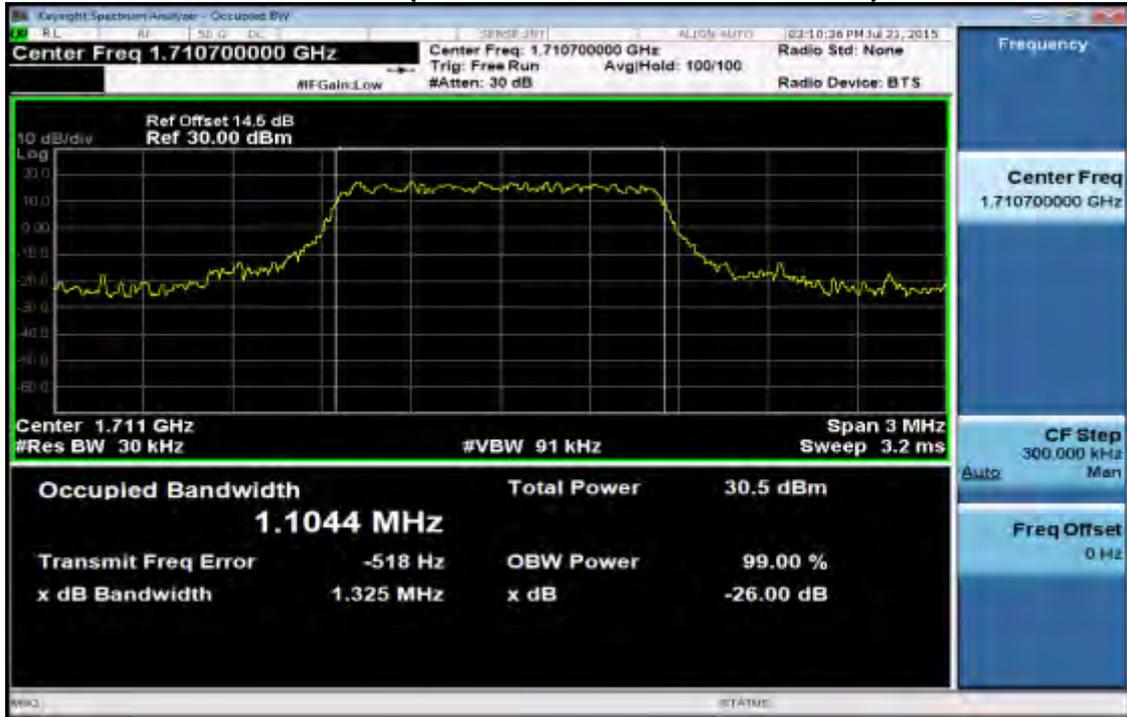
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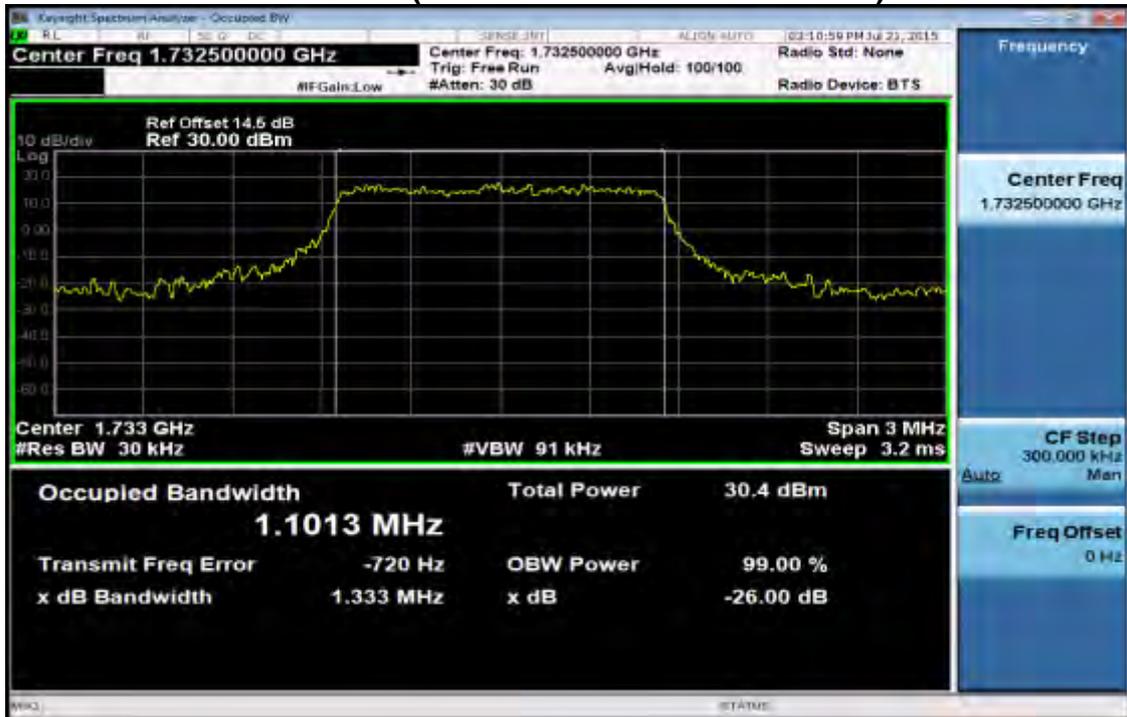
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1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel Mid



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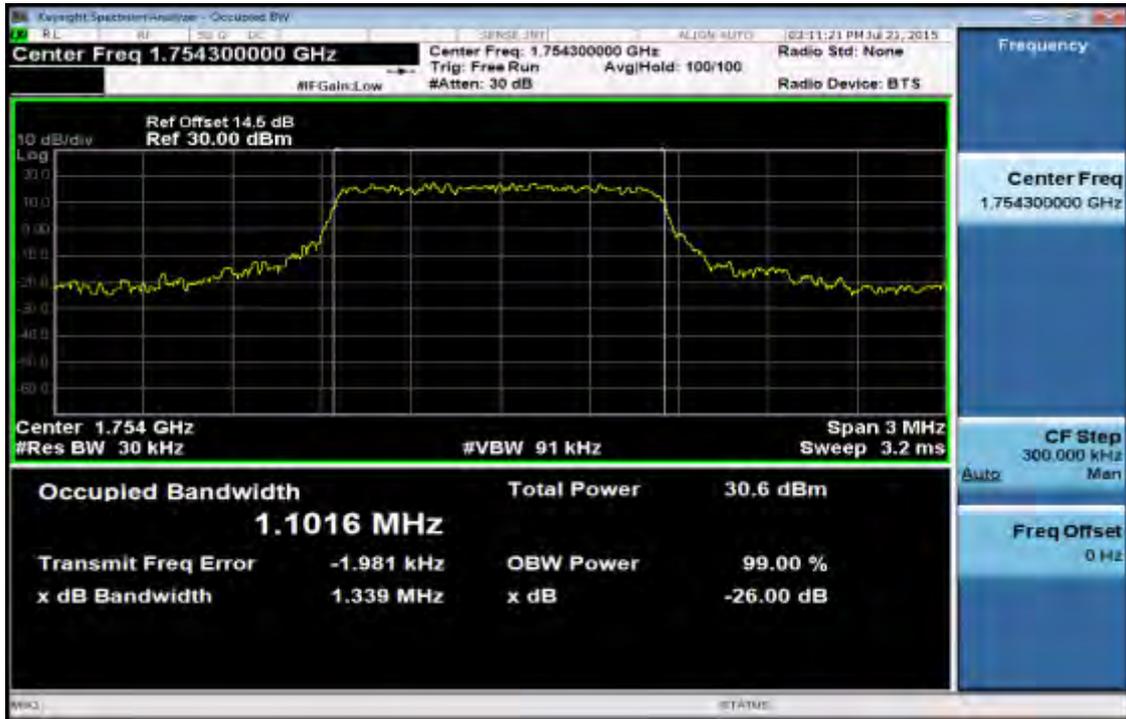
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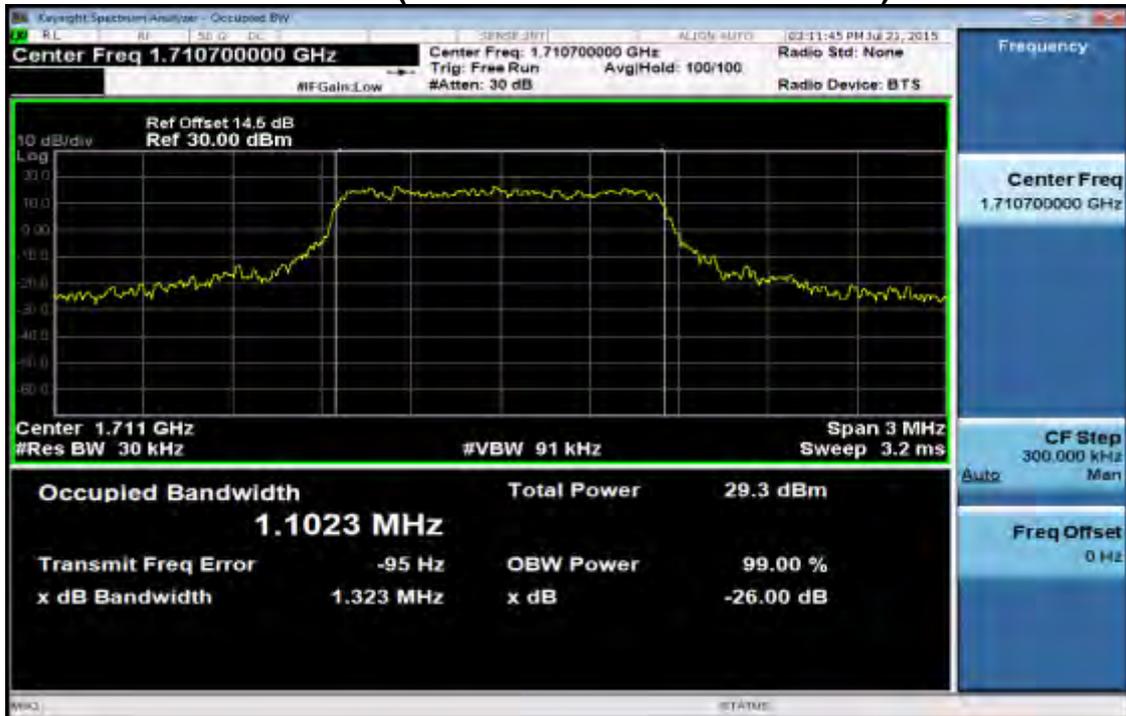
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1.4MHz BW LTE-Band 4(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Low



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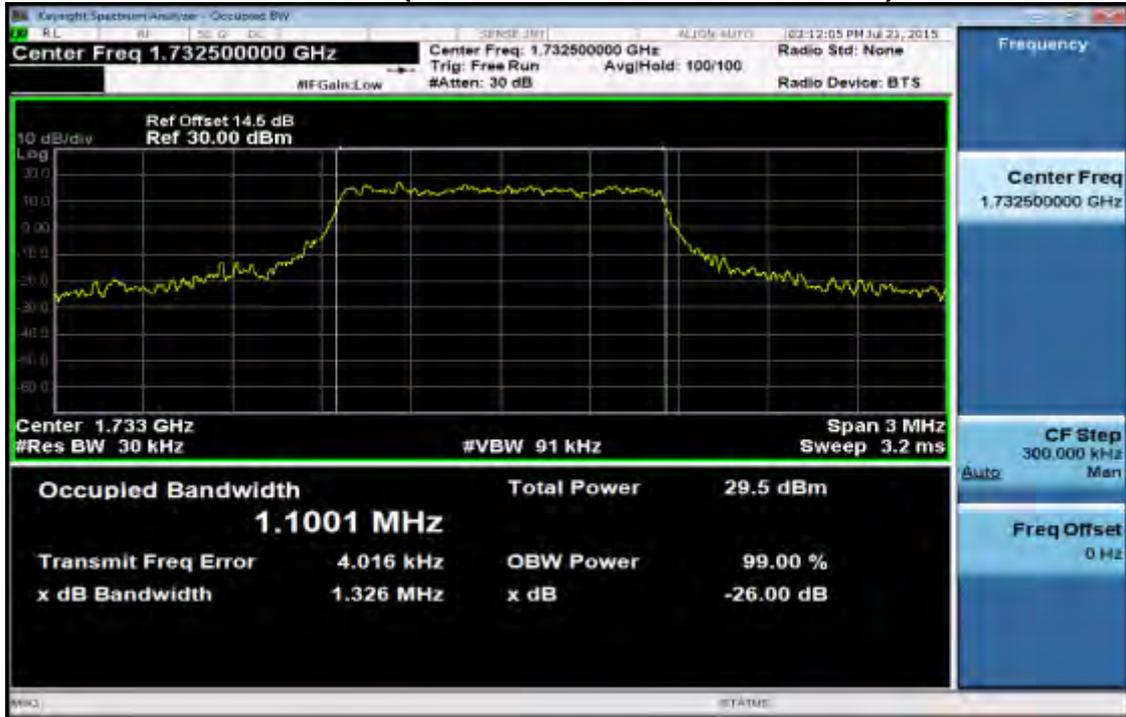
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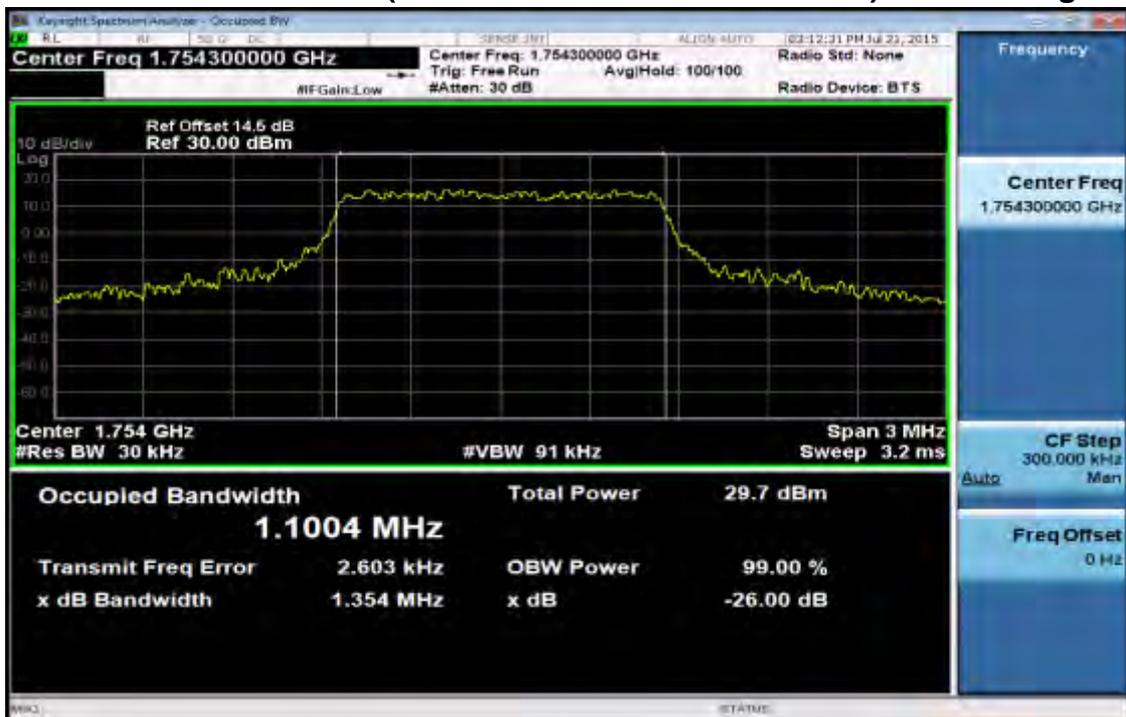
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1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 4(16QAM RB Number: 6 Offset: 0) Channel High



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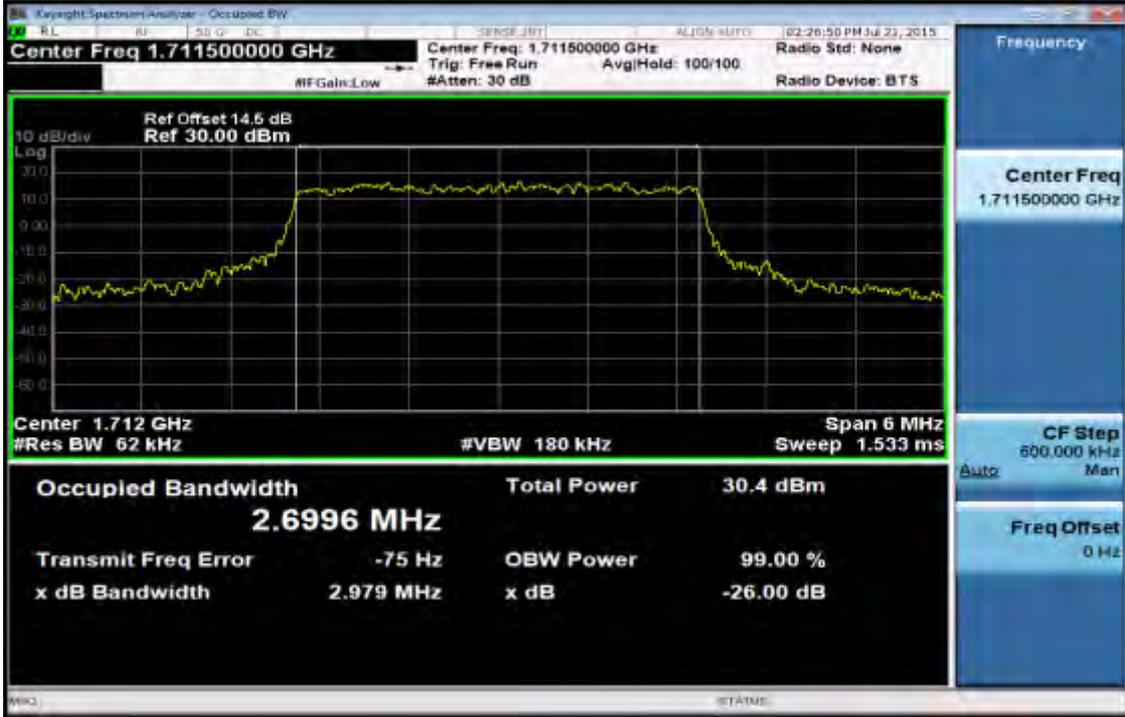
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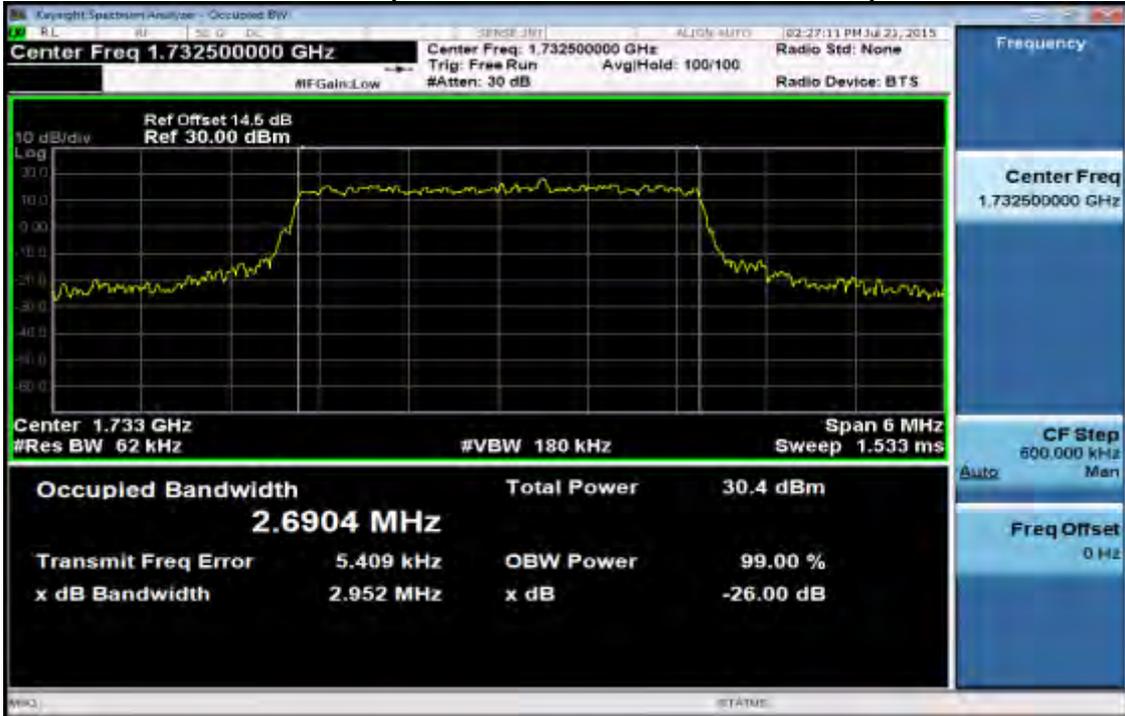
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3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel Mid



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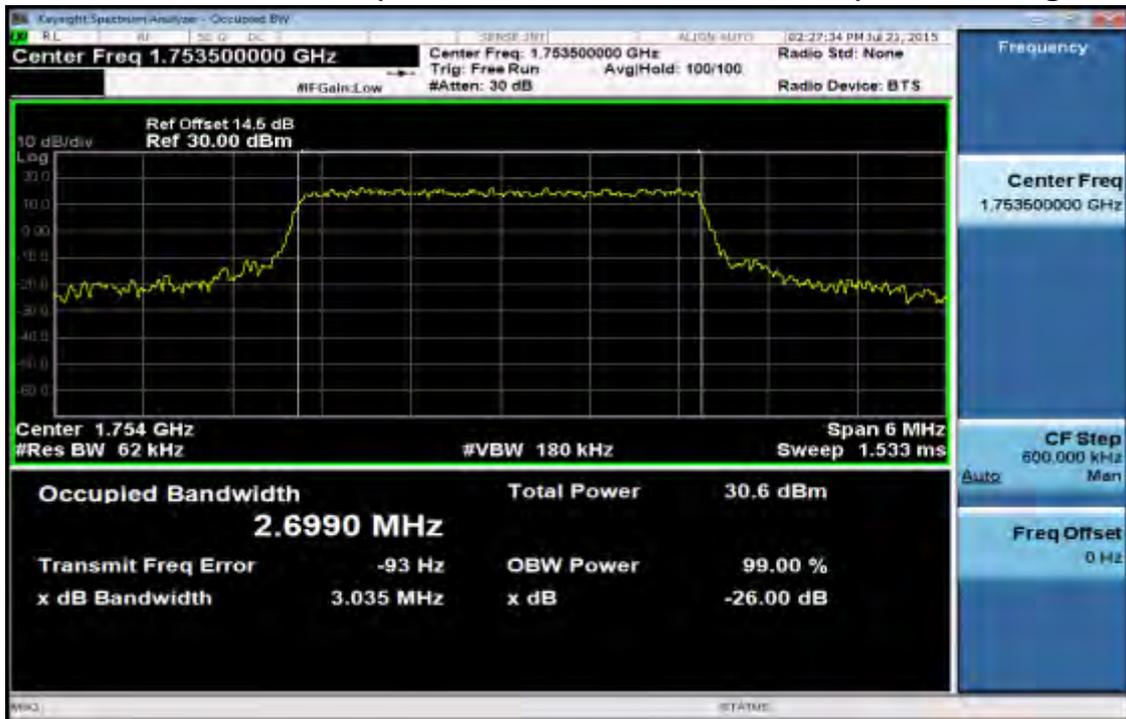
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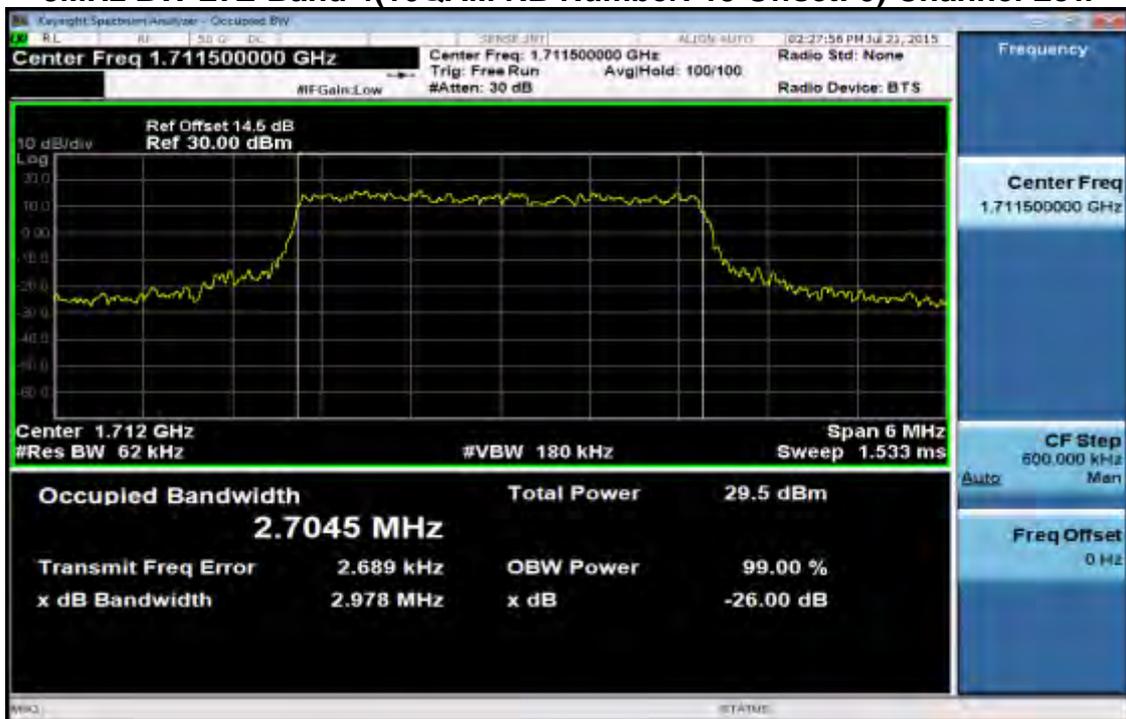
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3MHz BW LTE-Band 4(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Low



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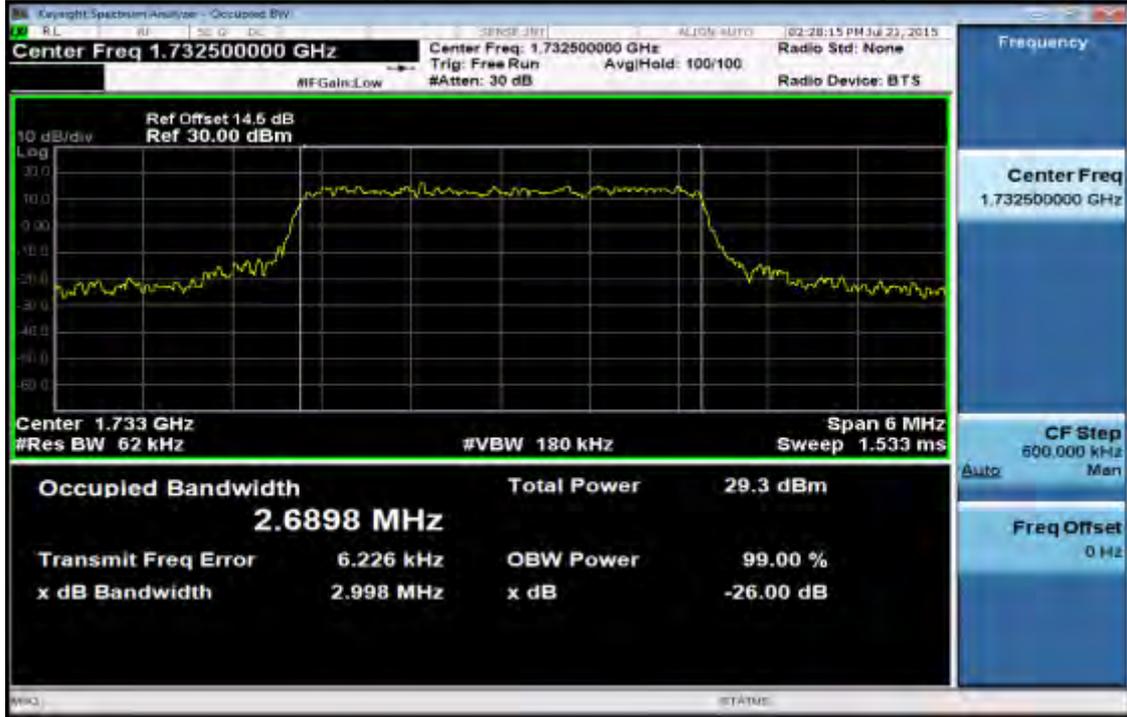
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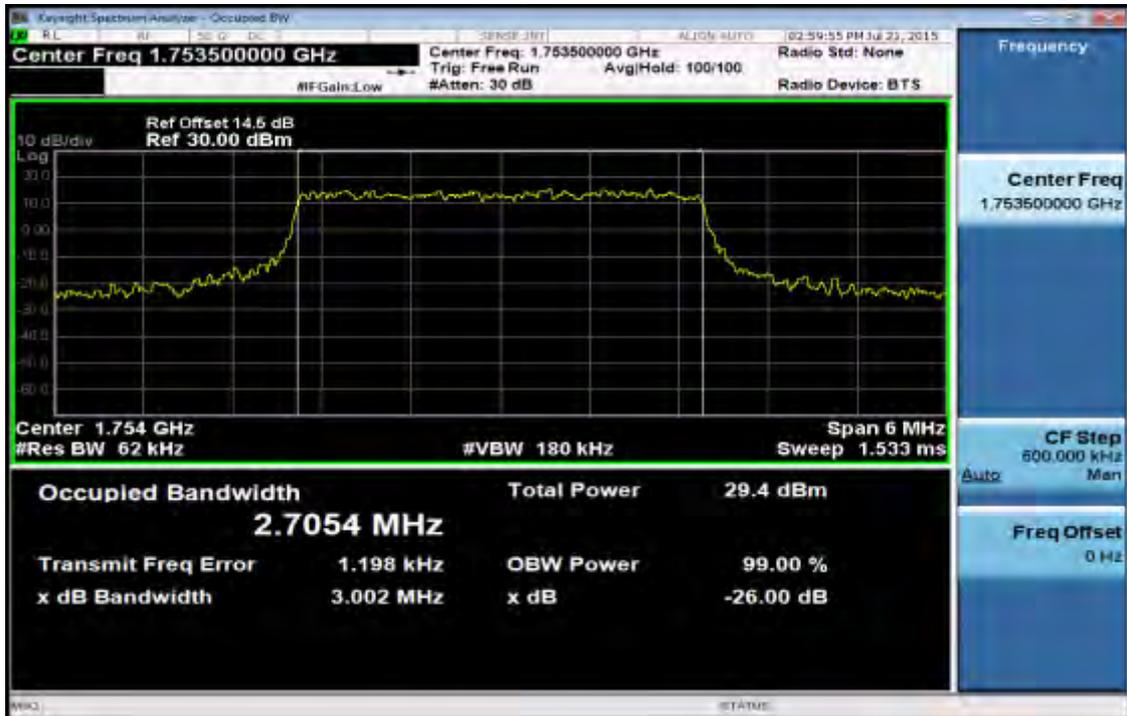
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3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 4(16QAM RB Number: 15 Offset: 0) Channel High



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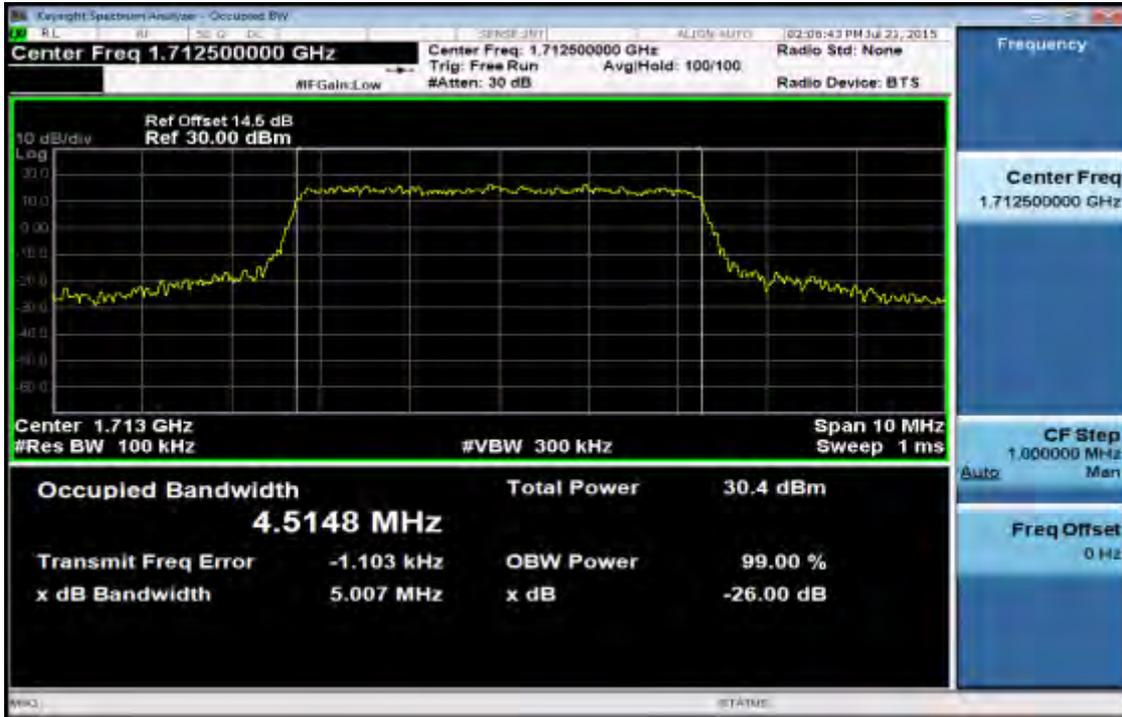
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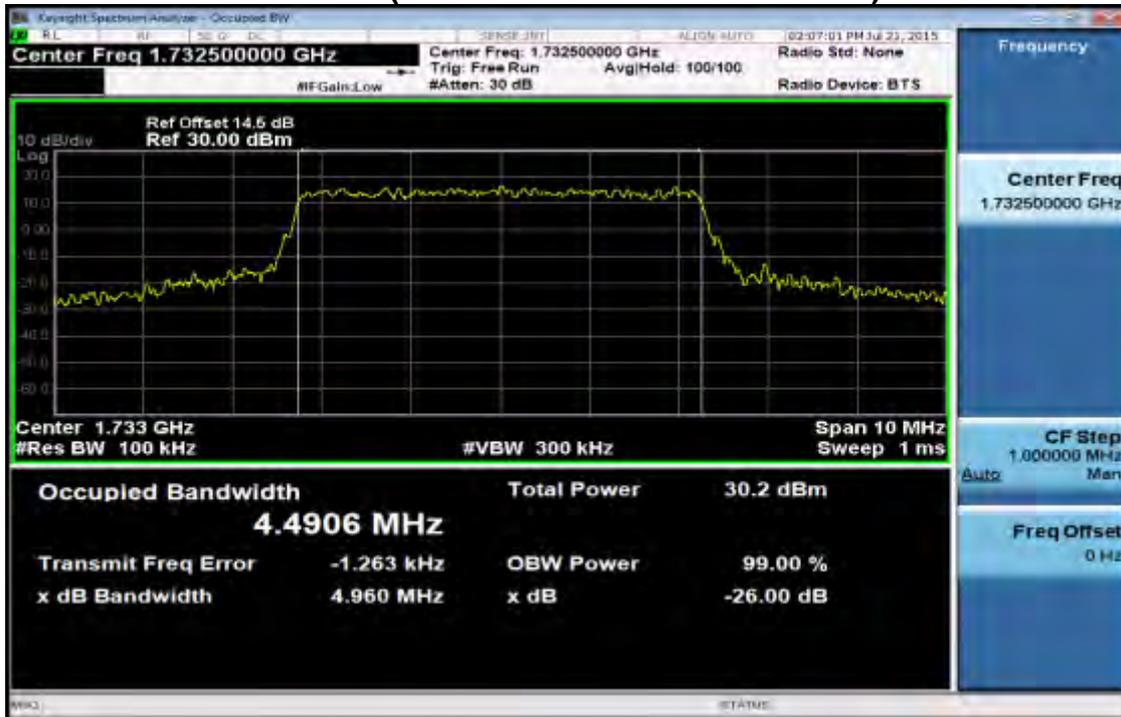
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5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel Mid



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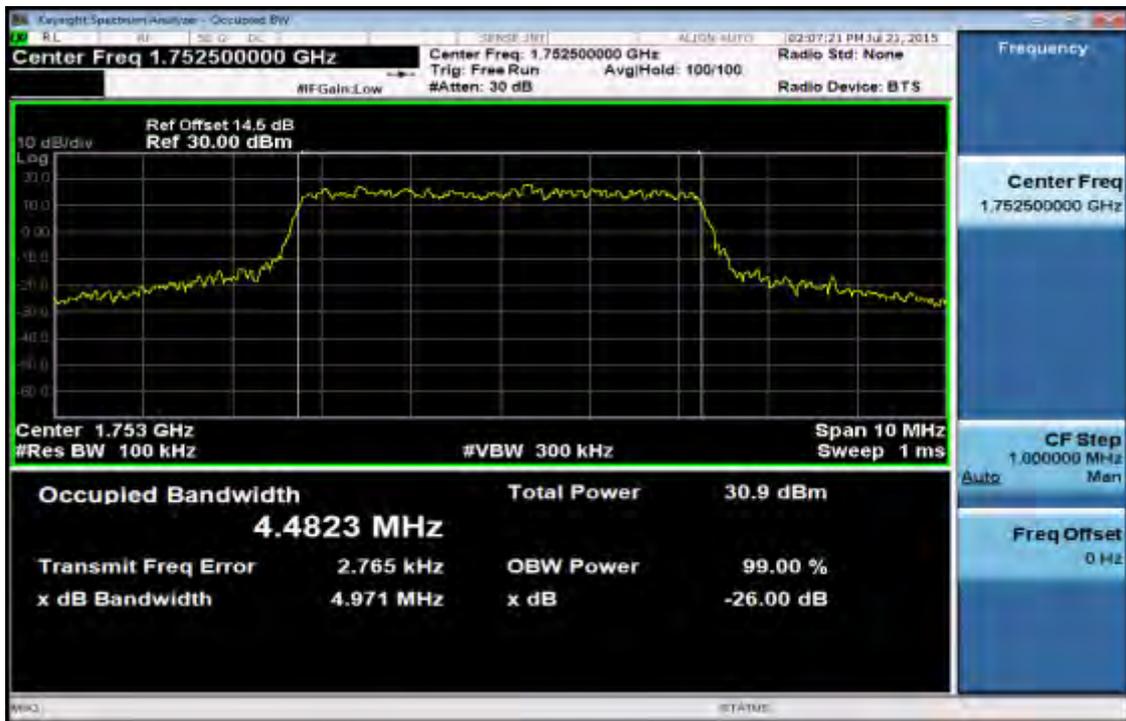
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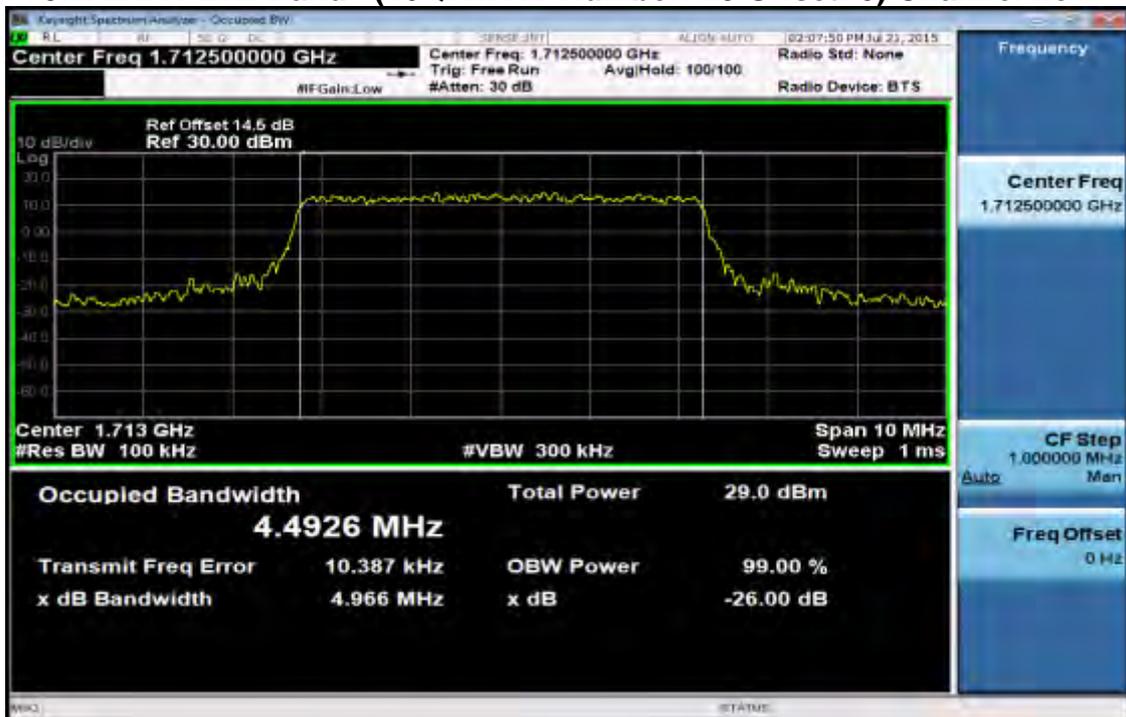
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5MHz BW LTE-Band 4(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Low



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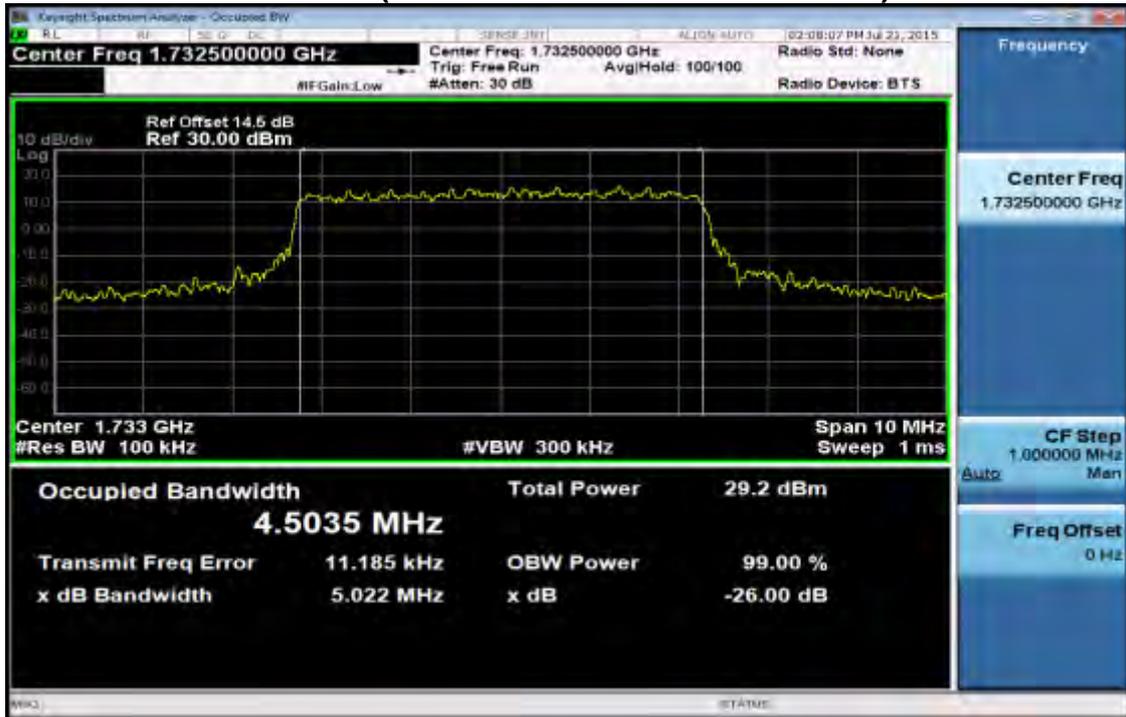
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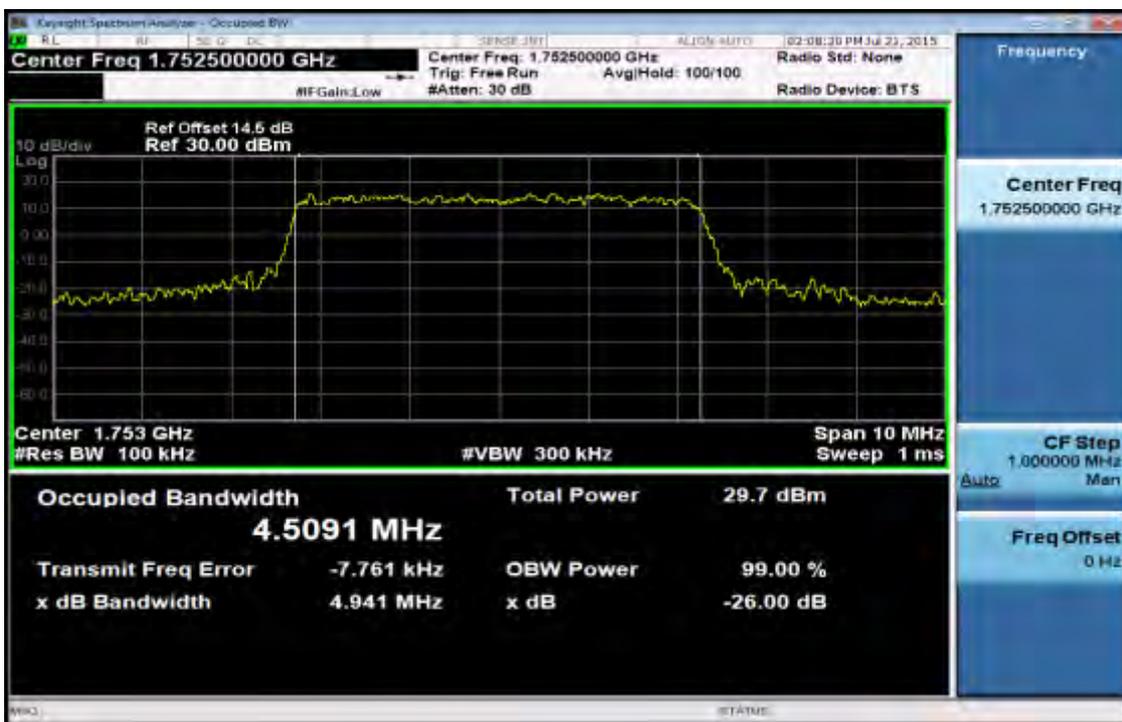
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5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 4(16QAM RB Number: 25 Offset: 0) Channel High



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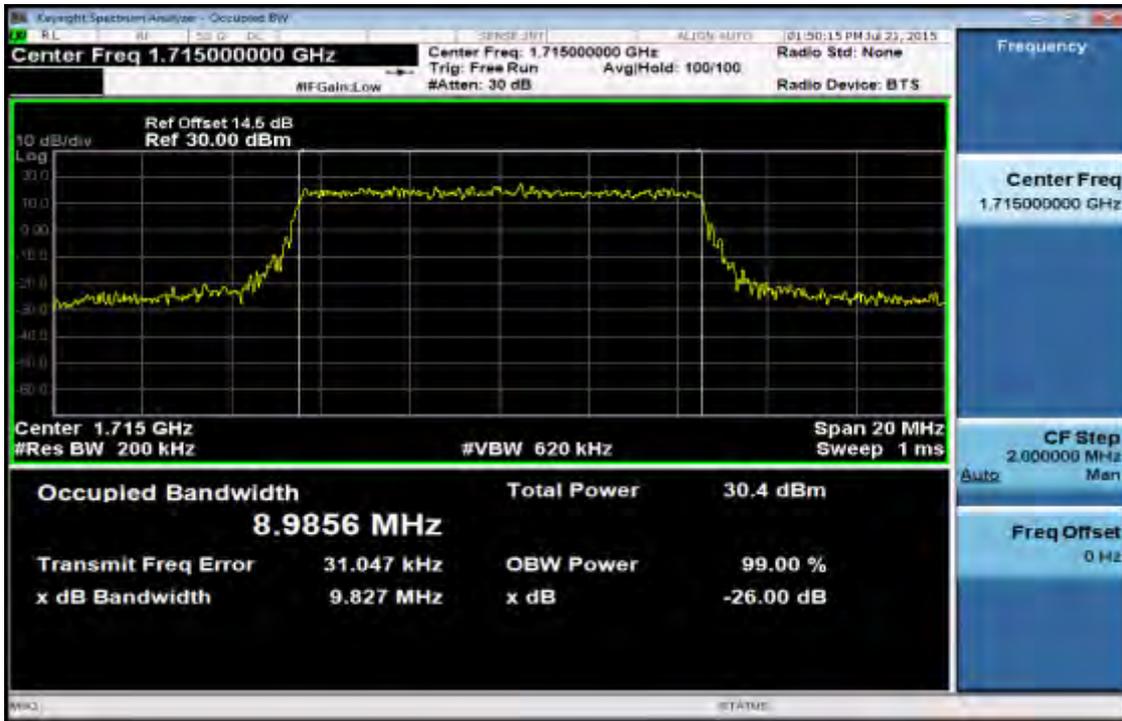
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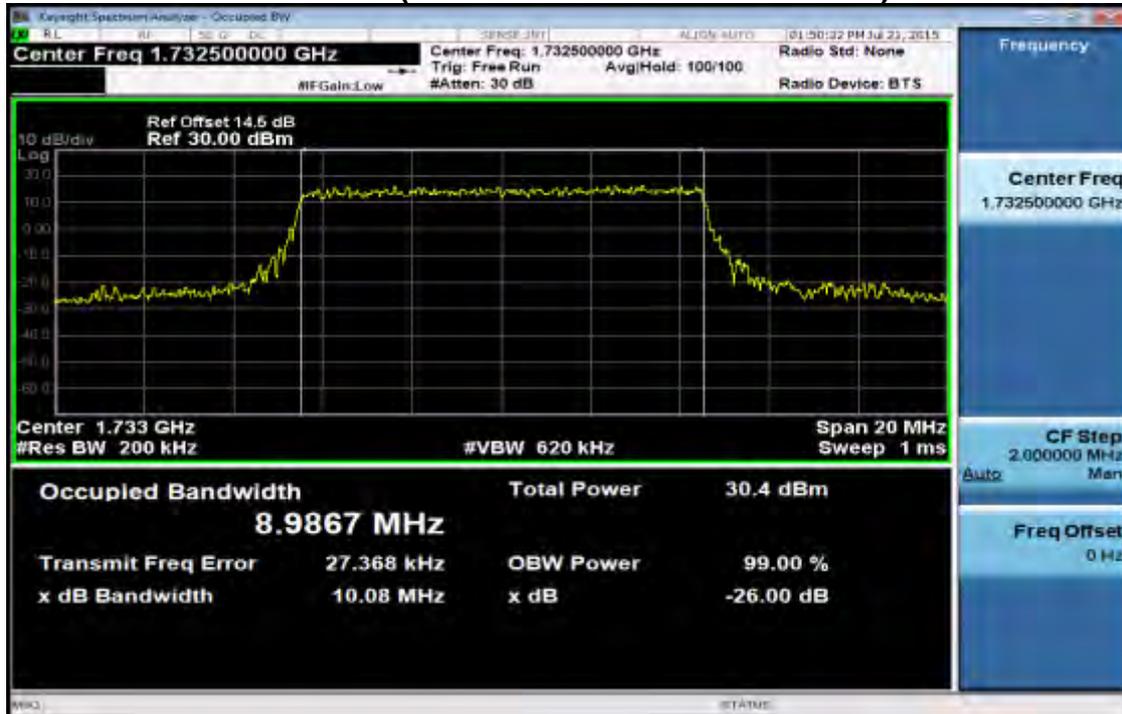
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10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel Mid



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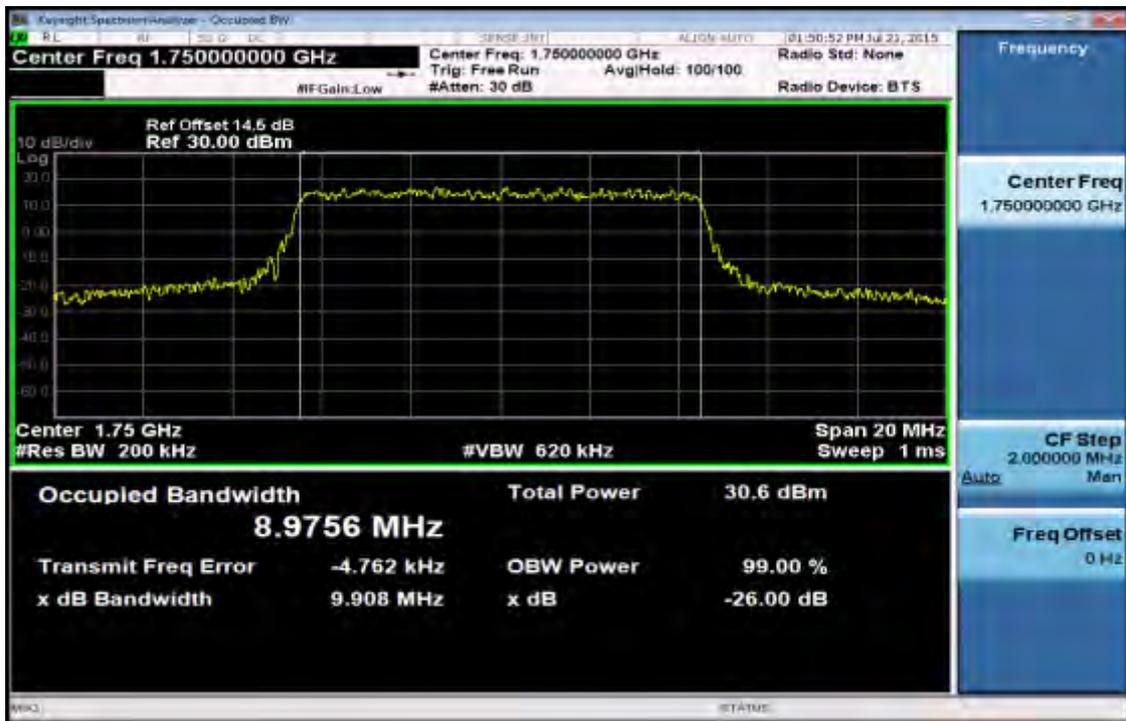
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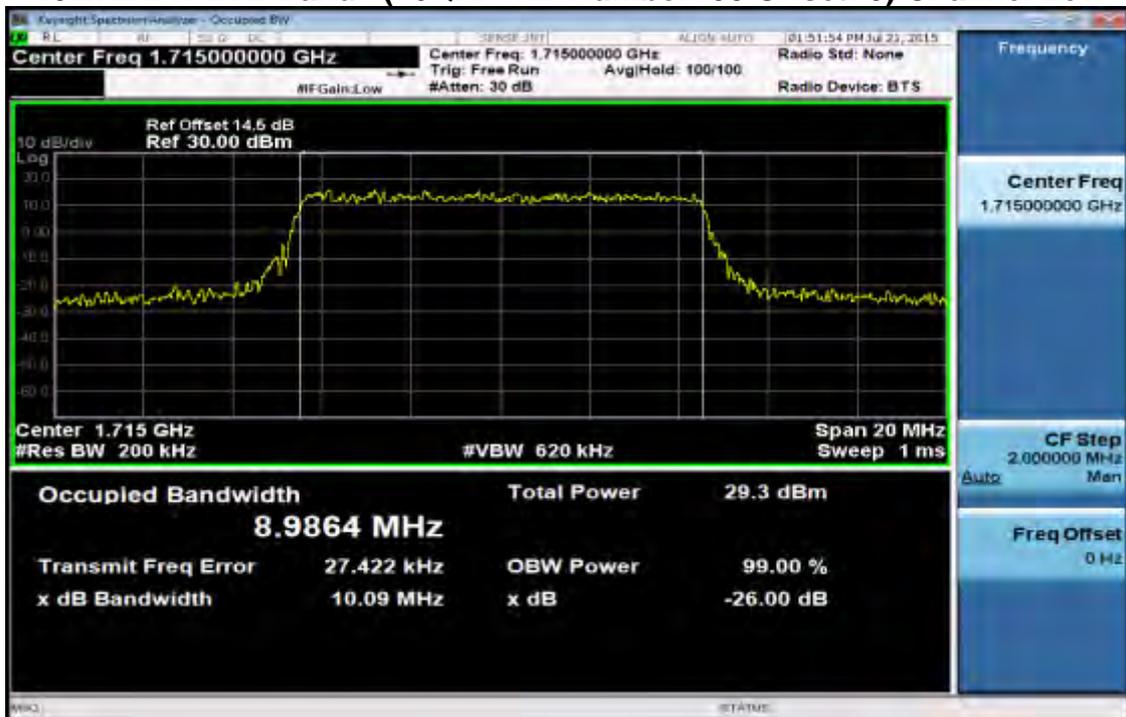
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10MHz BW LTE-Band 4(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Low



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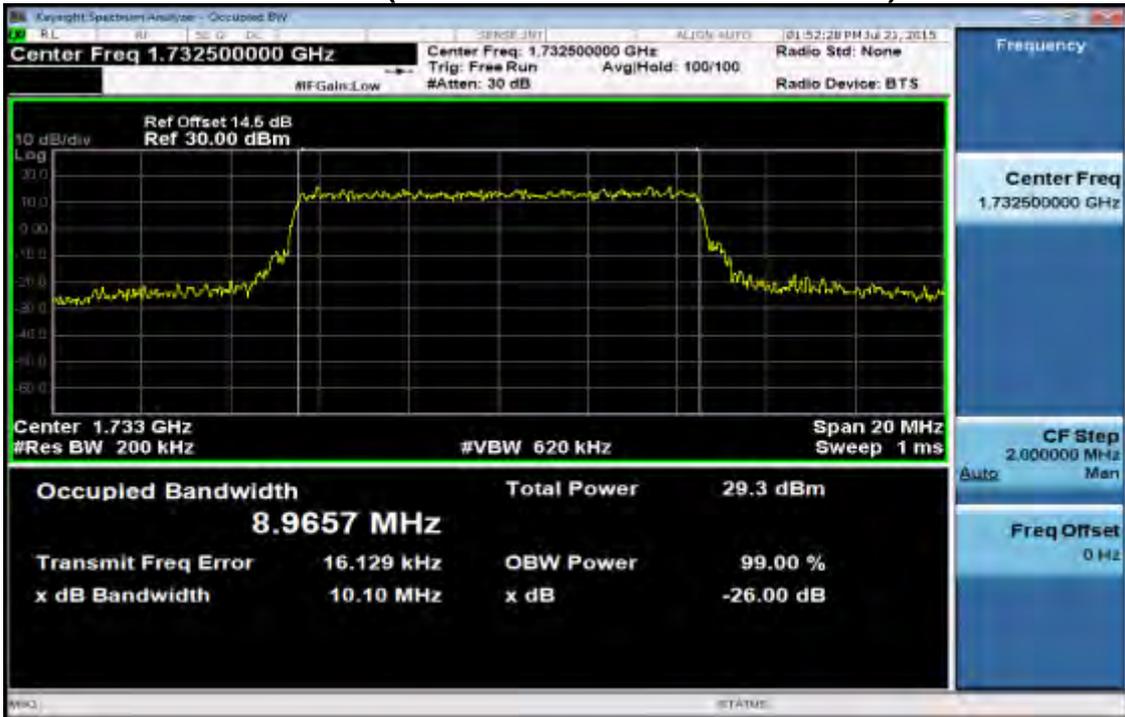
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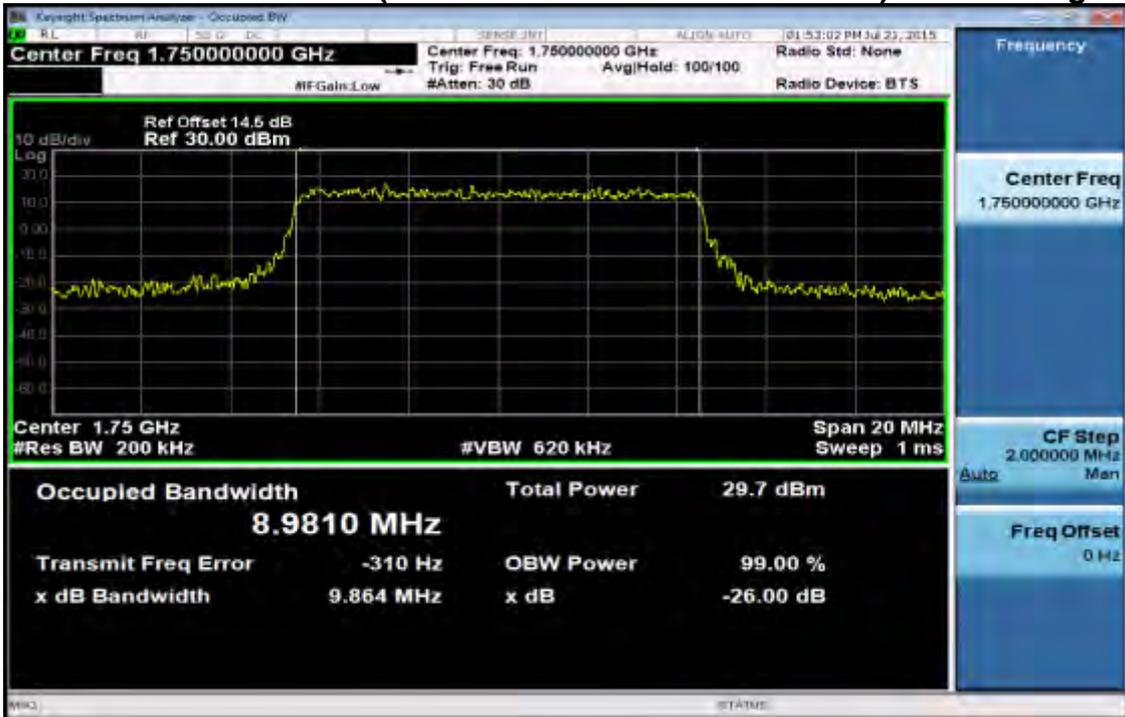
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10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 4(16QAM RB Number: 50 Offset: 0) Channel High



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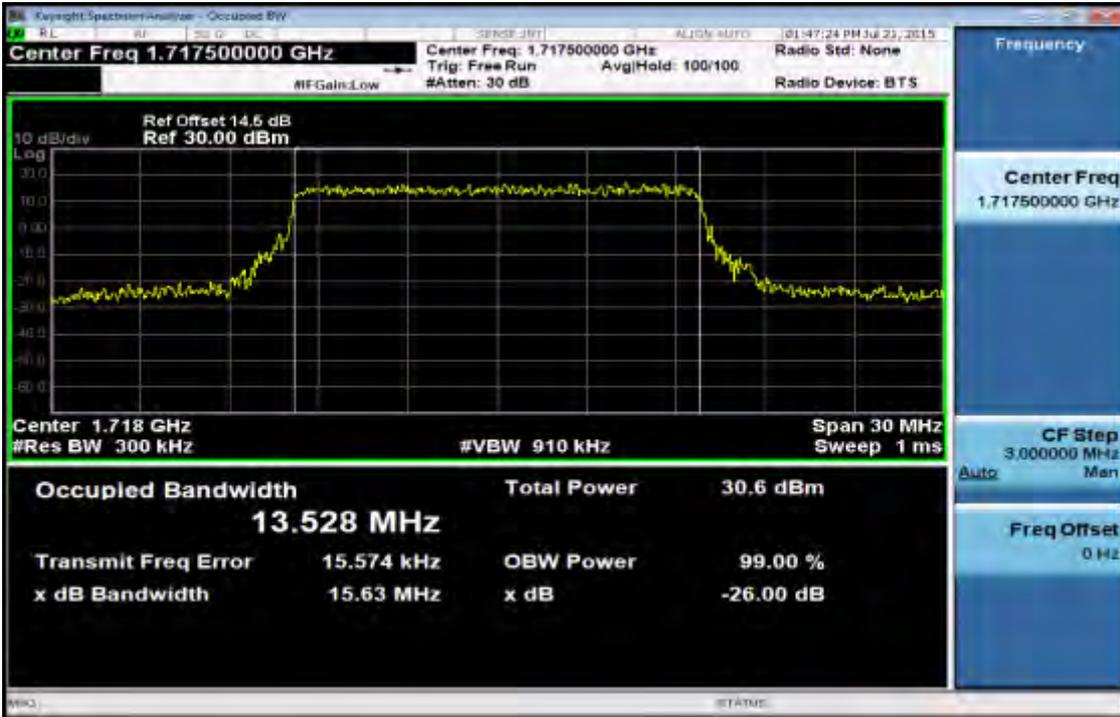
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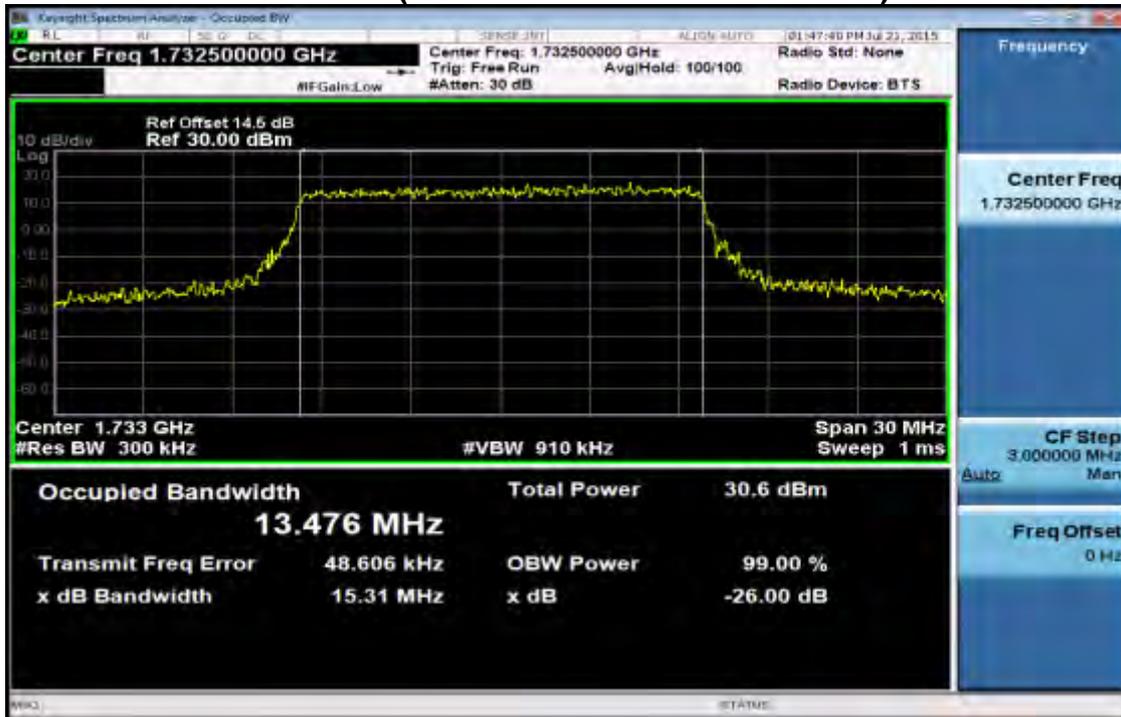
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15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Low



15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel Mid



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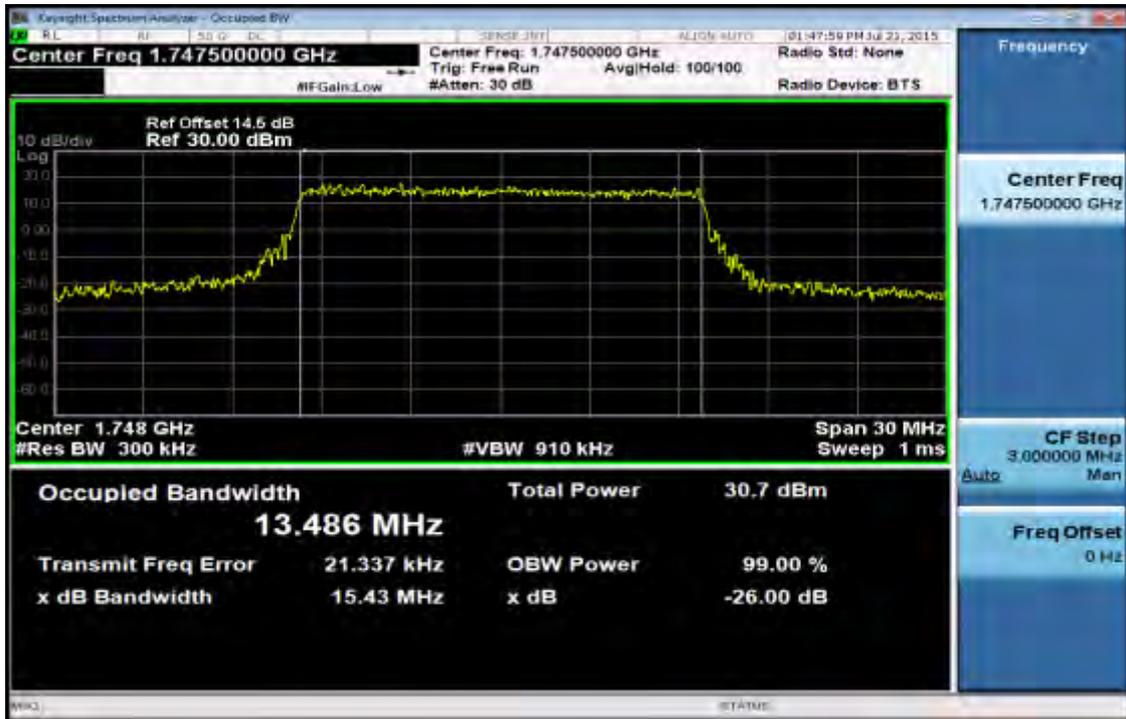
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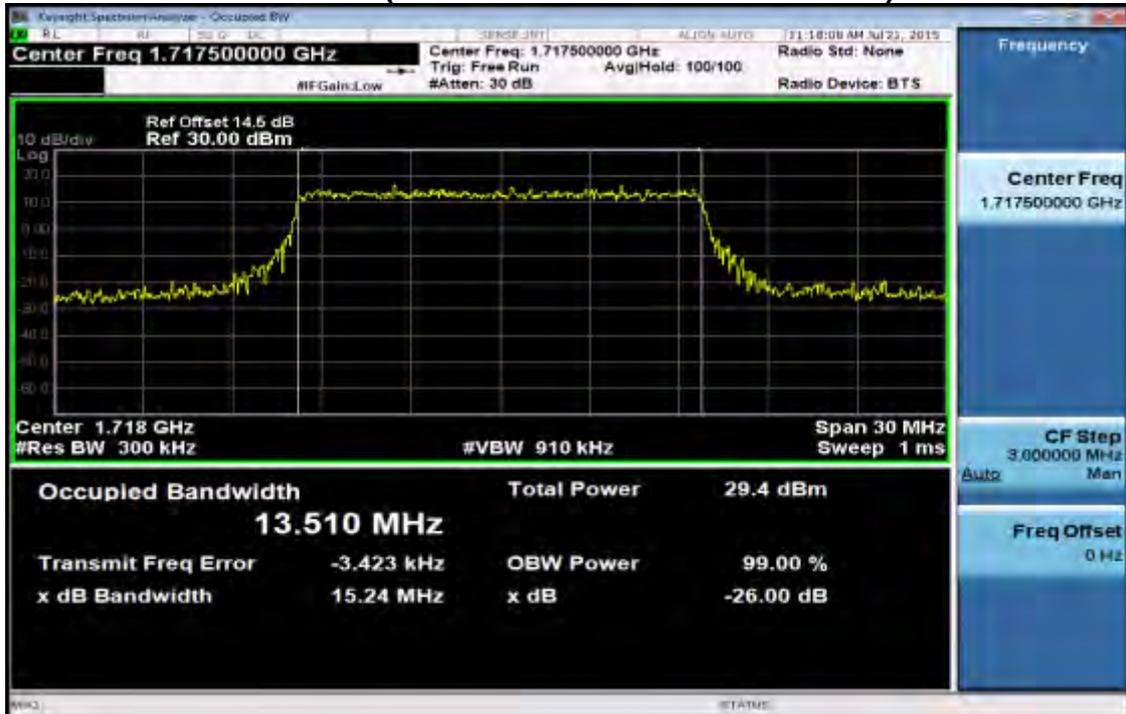
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15MHz BW LTE-Band 4(QPSK RB Number: 75 Offset: 0) Channel High



15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Low



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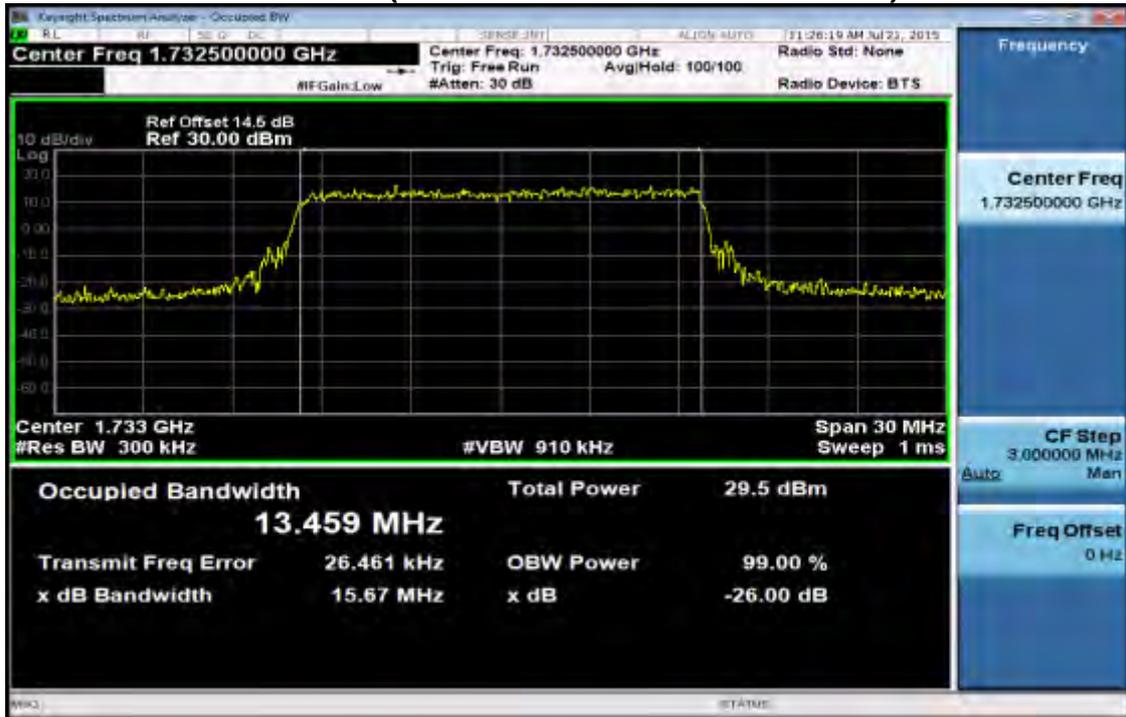
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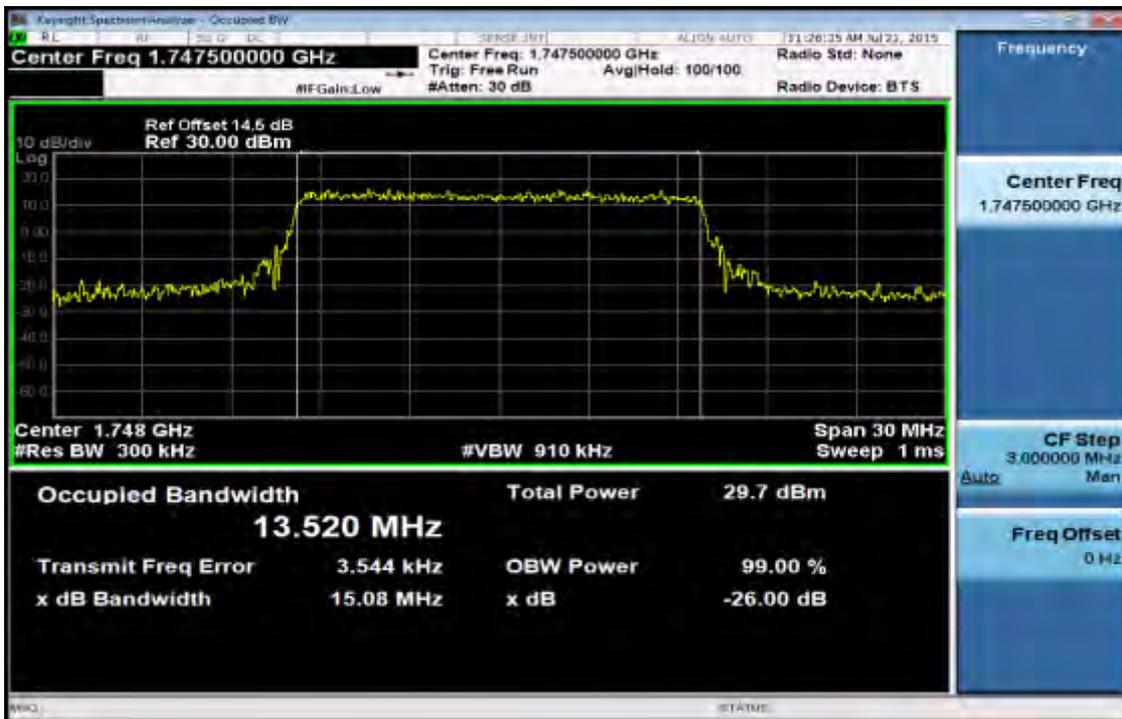
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15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel Mid



15MHz BW LTE-Band 4(16QAM RB Number: 75 Offset: 0) Channel High



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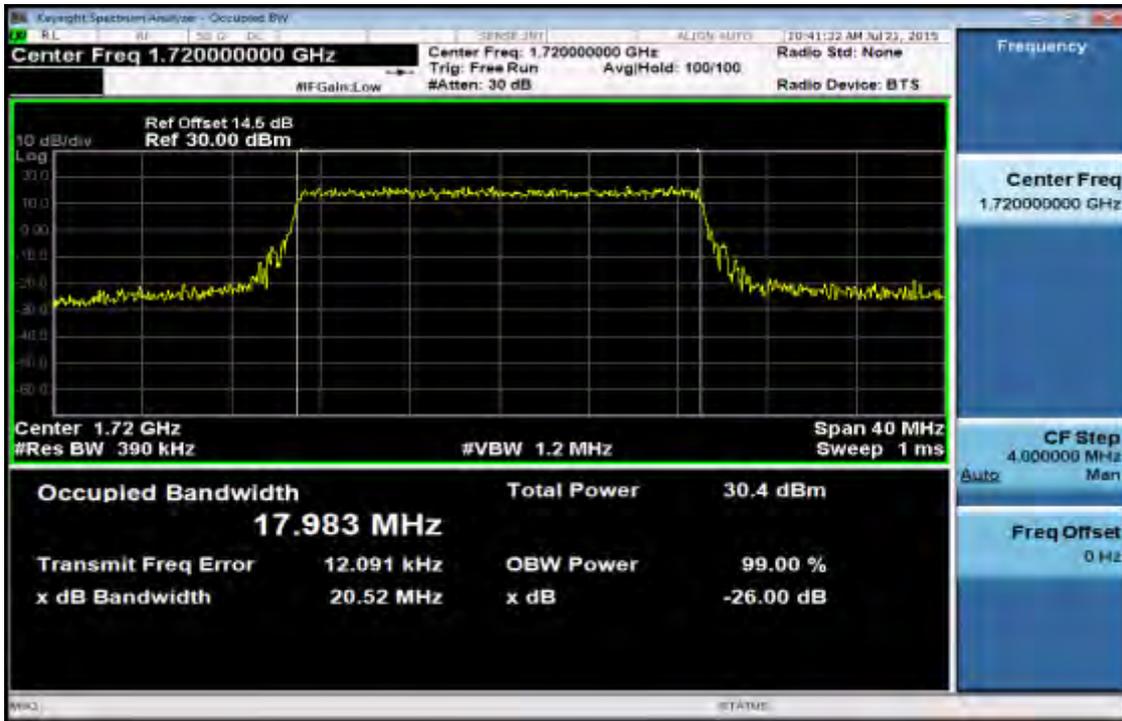
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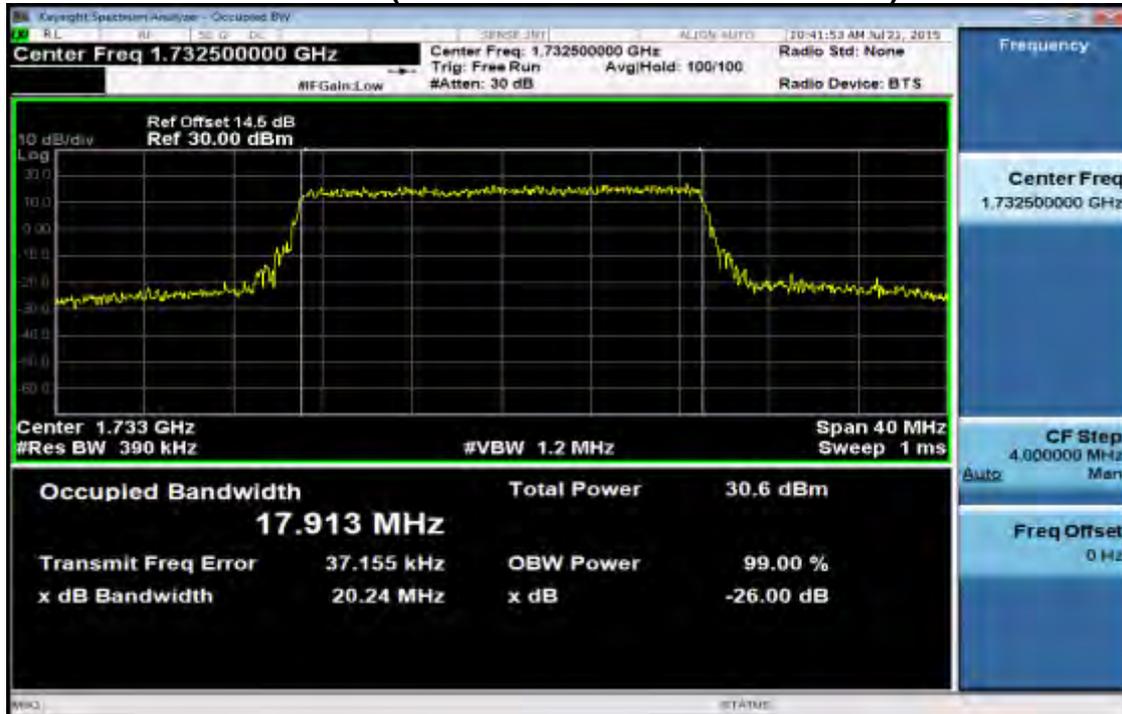
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20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Low



20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel Mid



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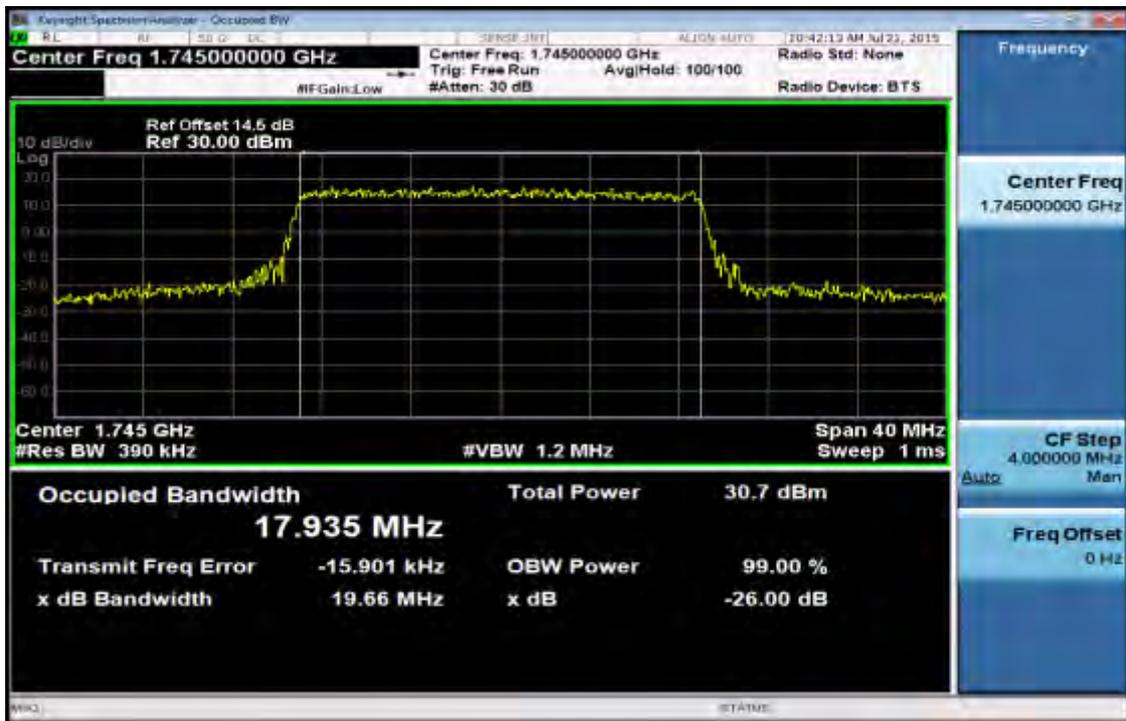
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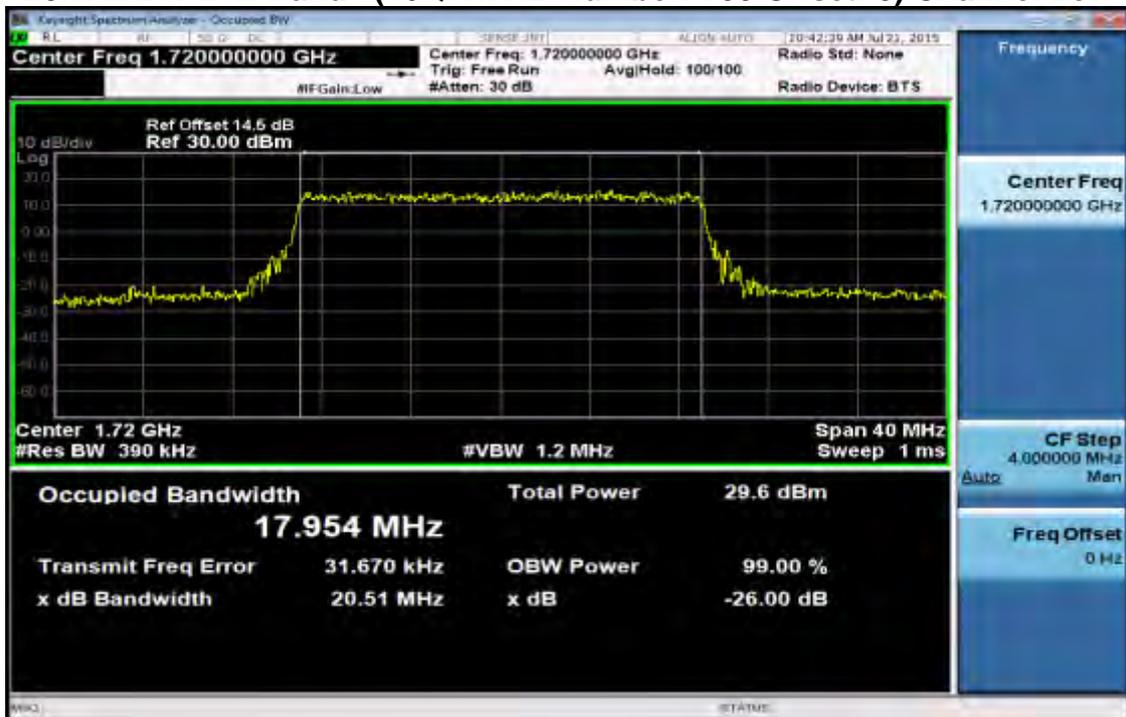
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20MHz BW LTE-Band 4(QPSK RB Number: 100 Offset: 0) Channel High



20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Low



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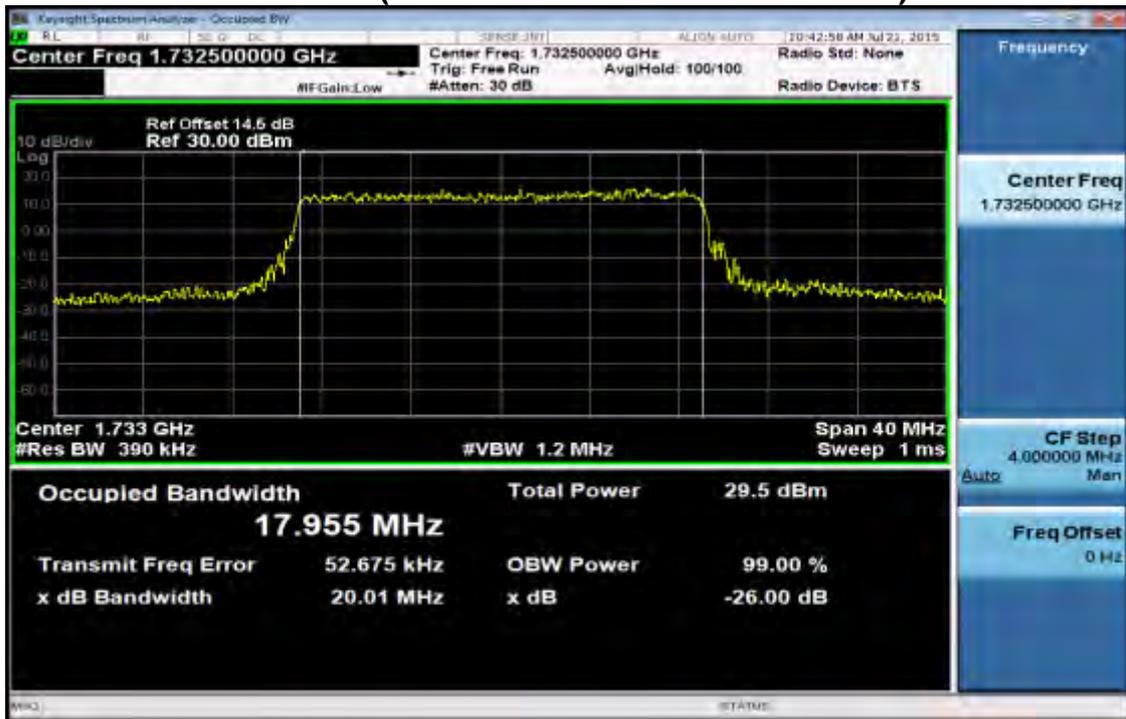
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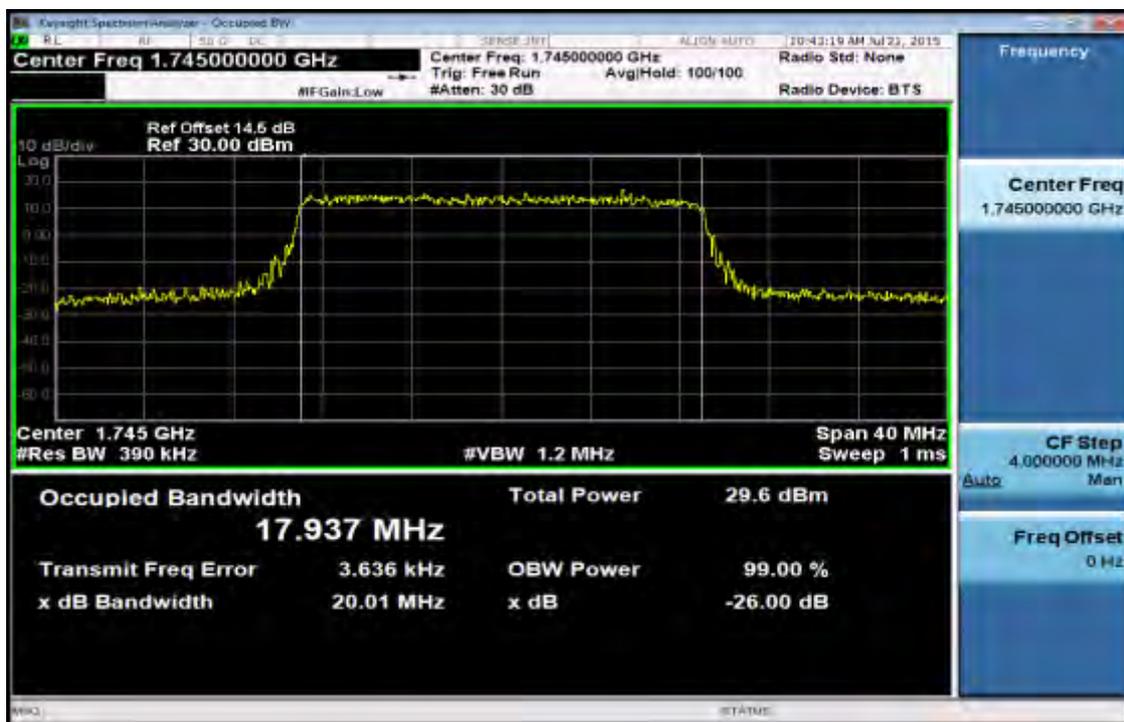
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20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel Mid



20MHz BW LTE-Band 4(16QAM RB Number: 100 Offset: 0) Channel High



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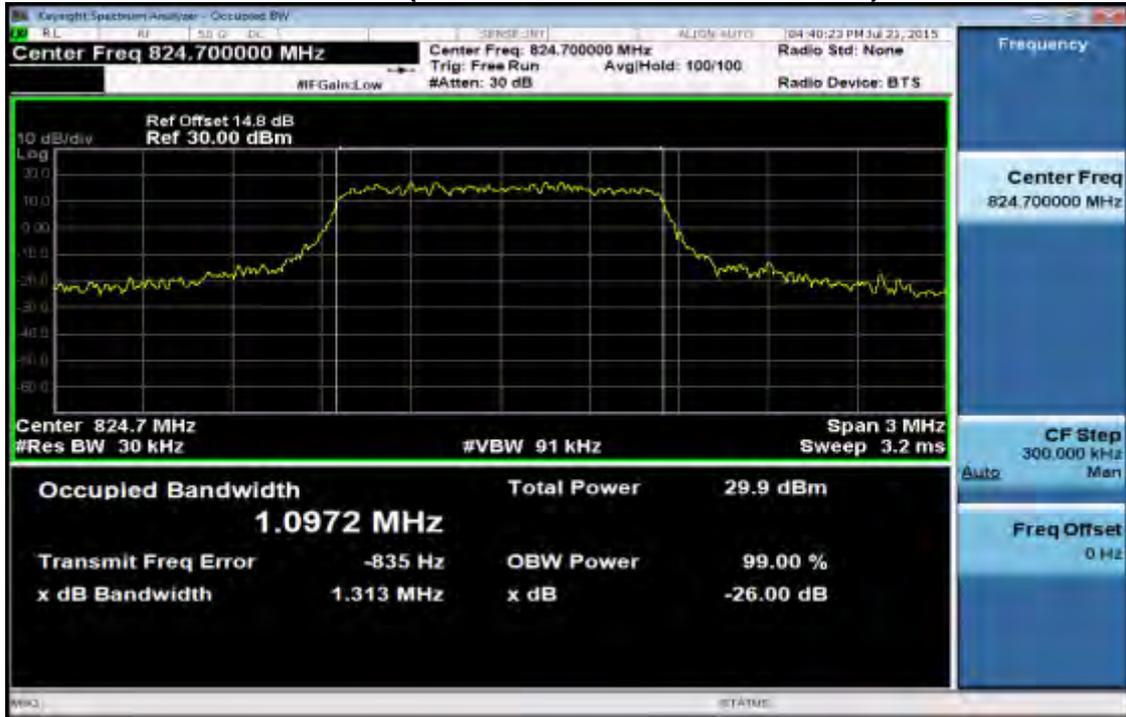
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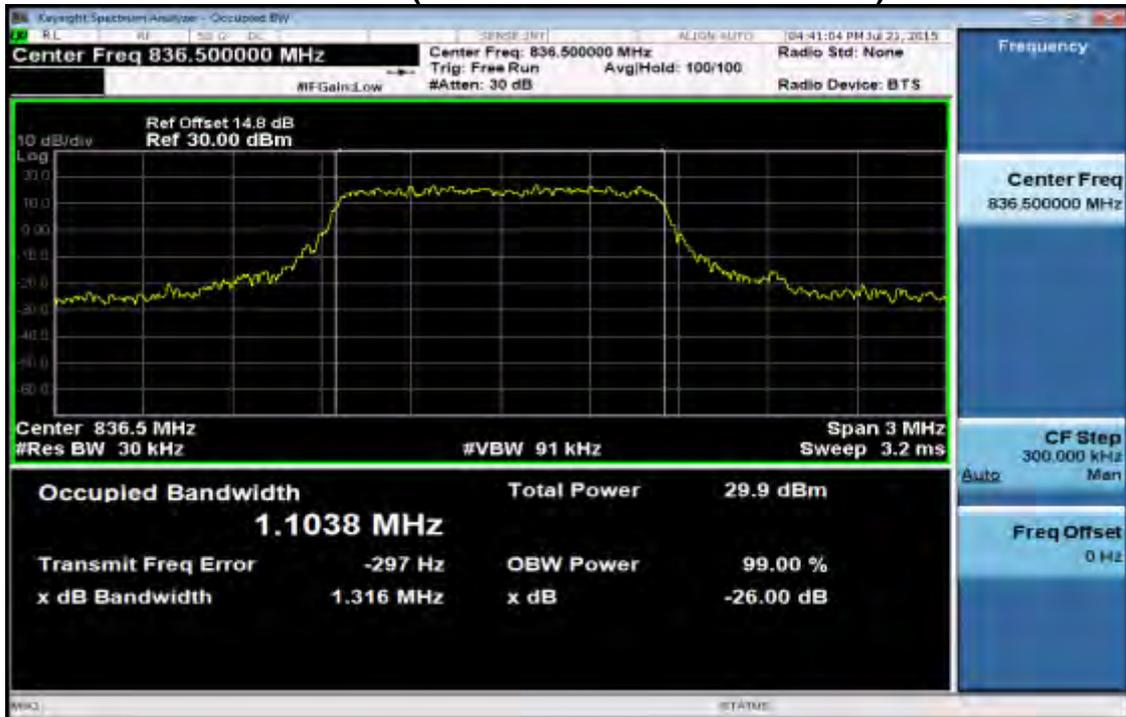
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1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Low



1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel Mid



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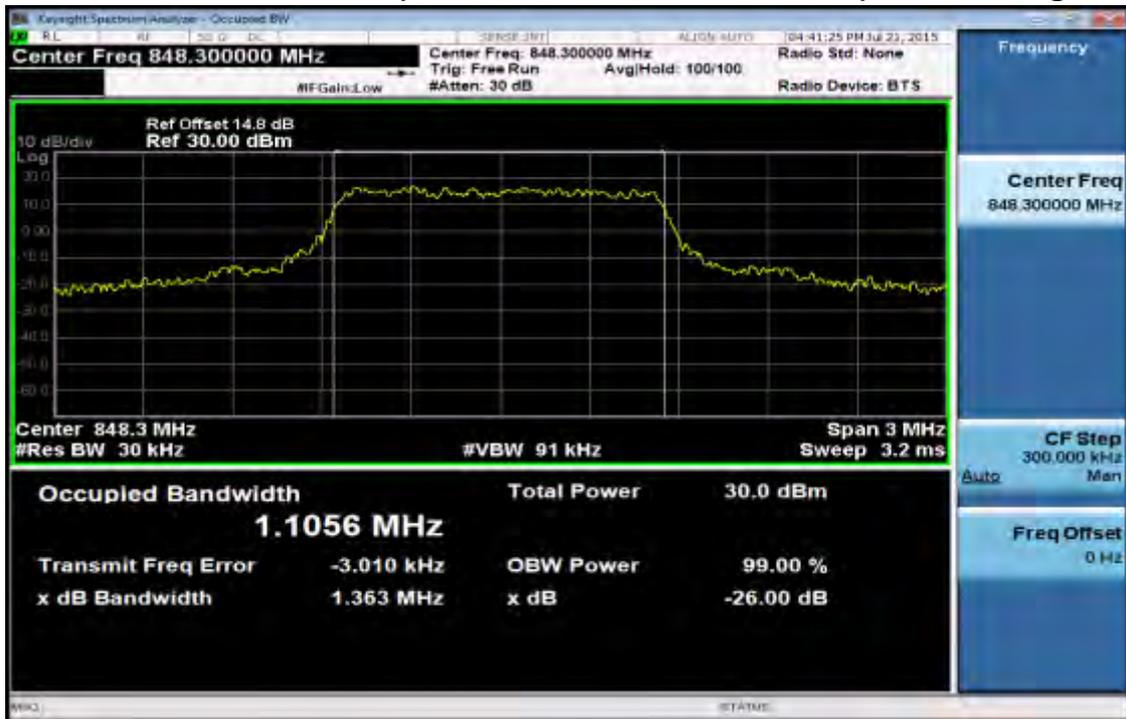
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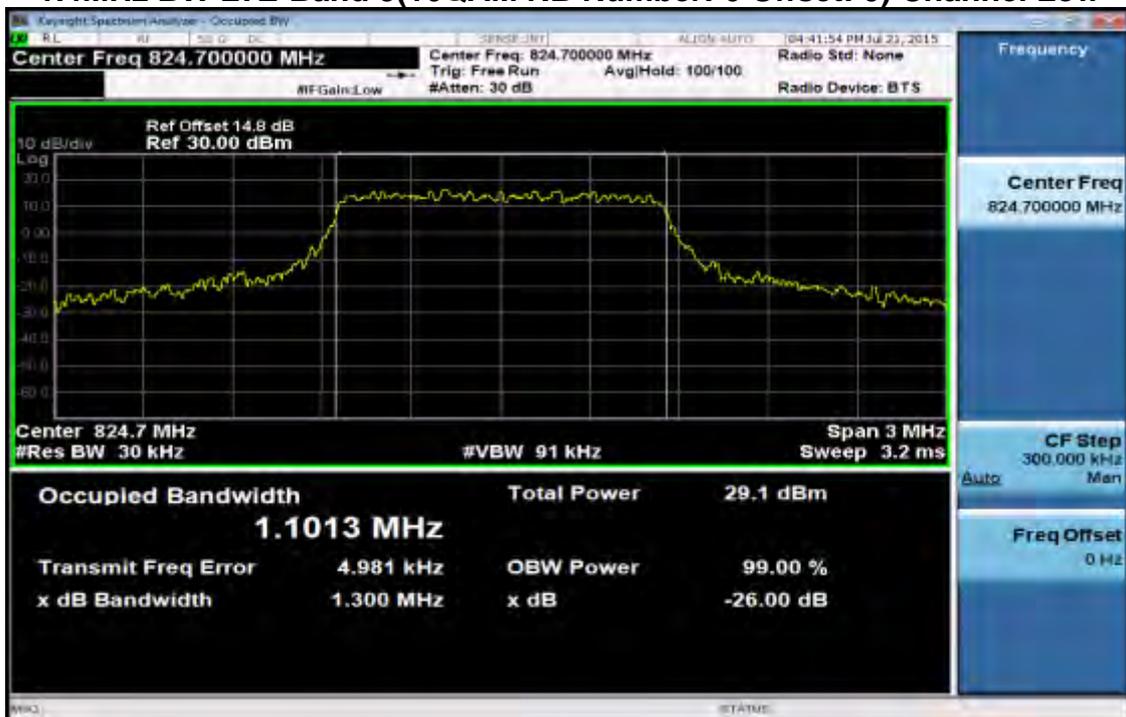
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1.4MHz BW LTE-Band 5(QPSK RB Number: 6 Offset: 0) Channel High



1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Low



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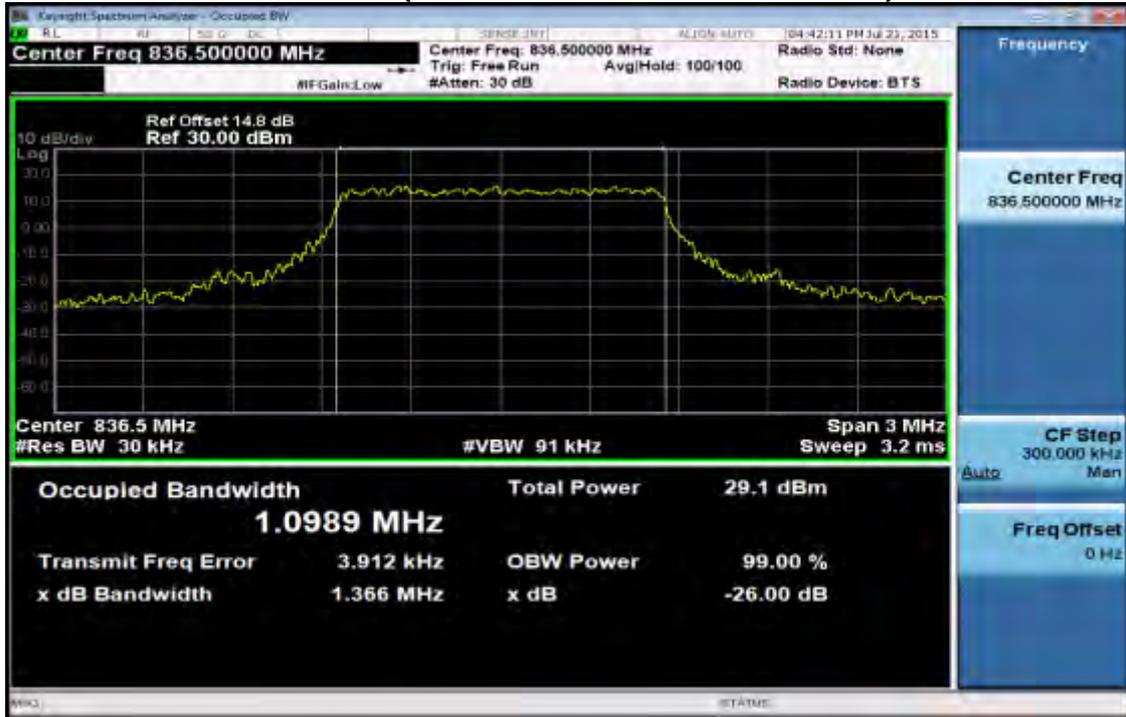
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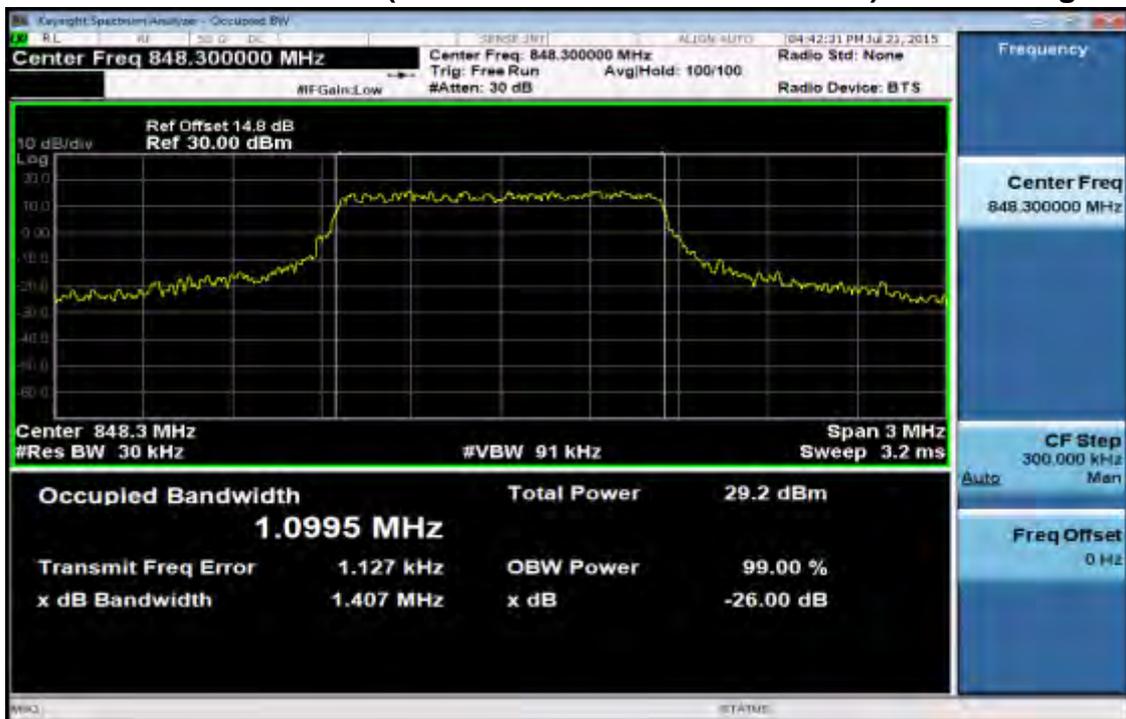
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1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel Mid



1.4MHz BW LTE-Band 5(16QAM RB Number: 6 Offset: 0) Channel High



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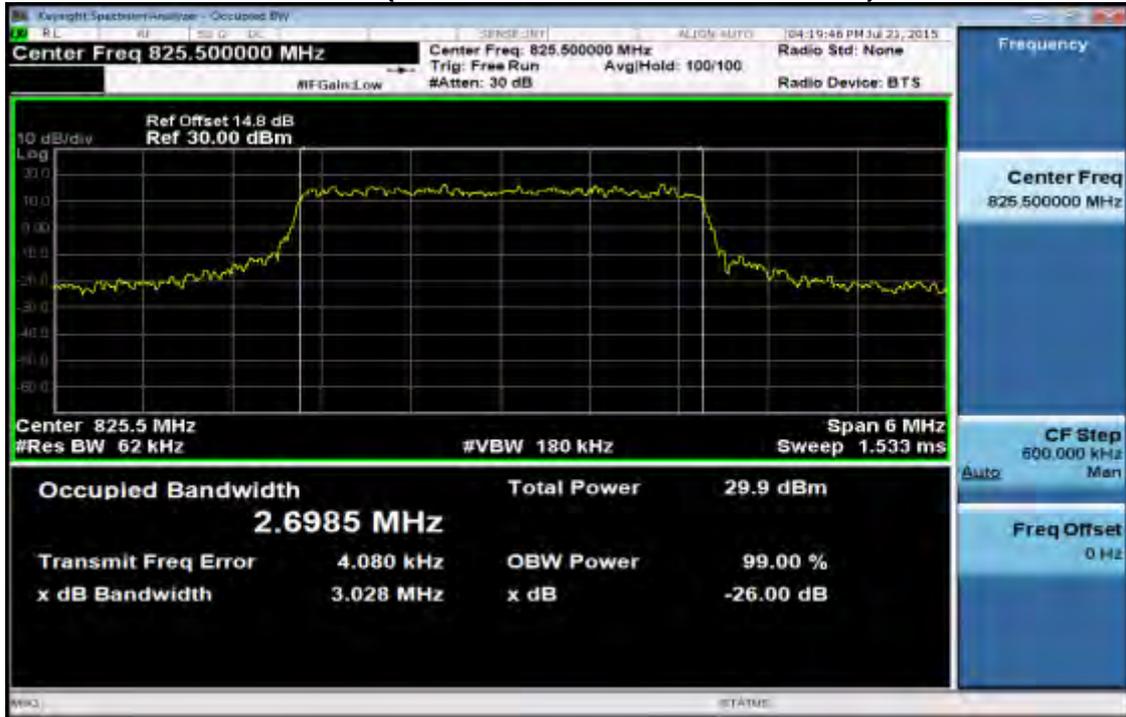
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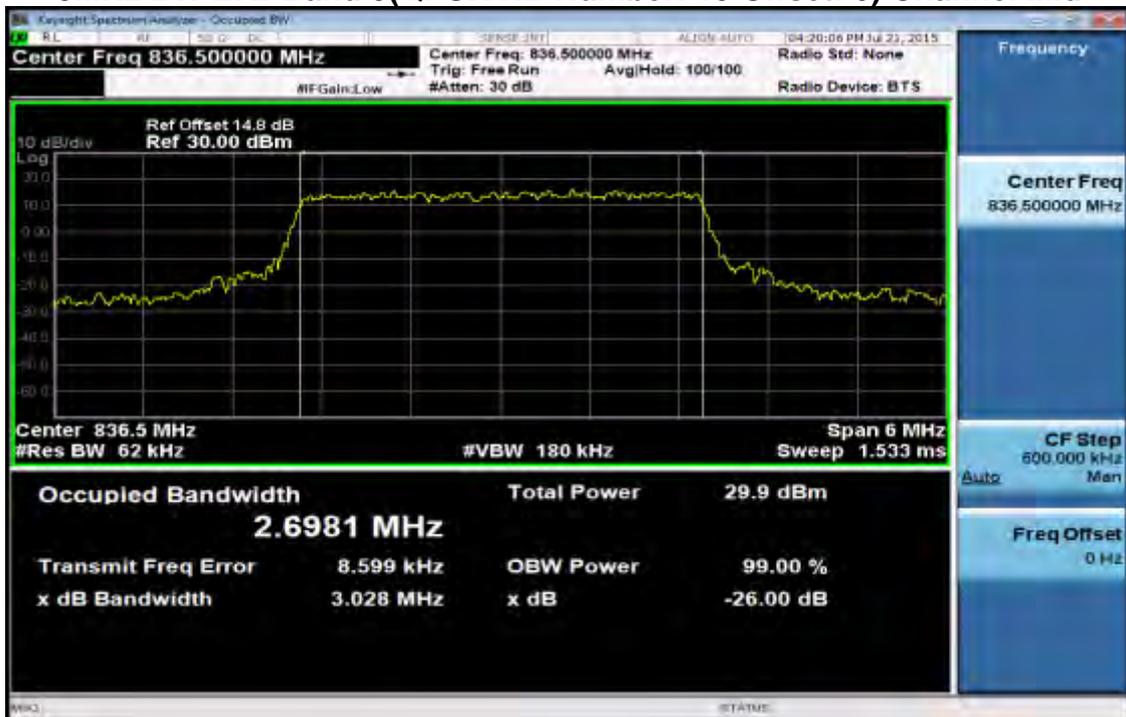
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3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Low



3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel Mid



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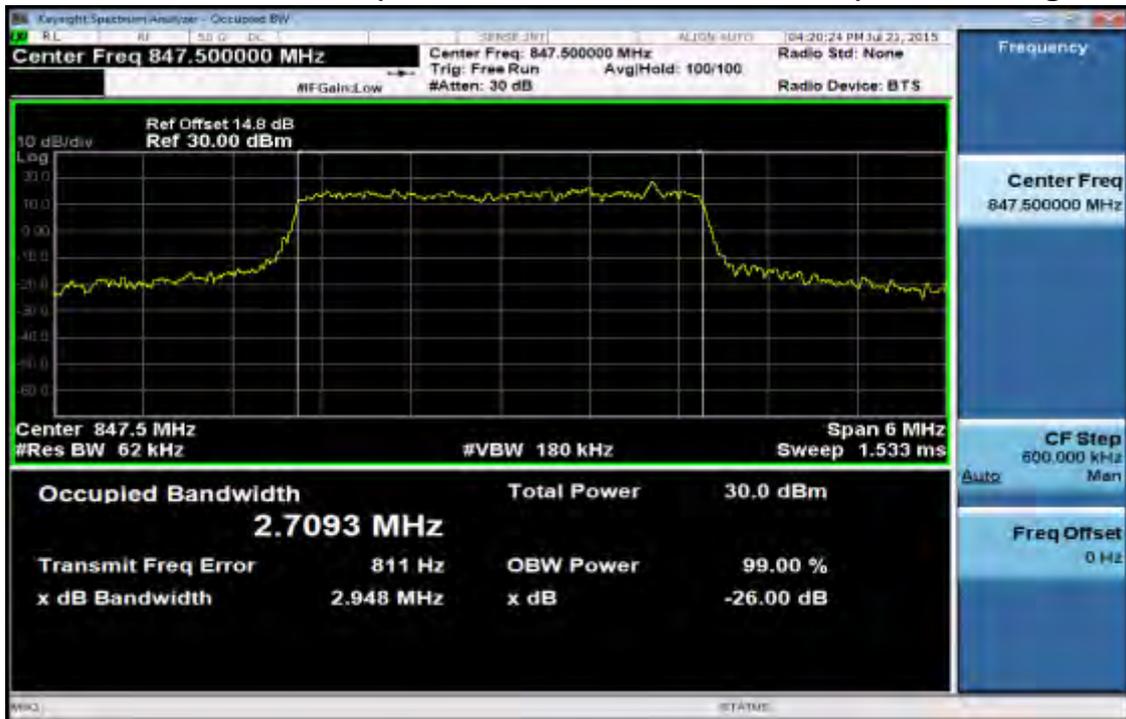
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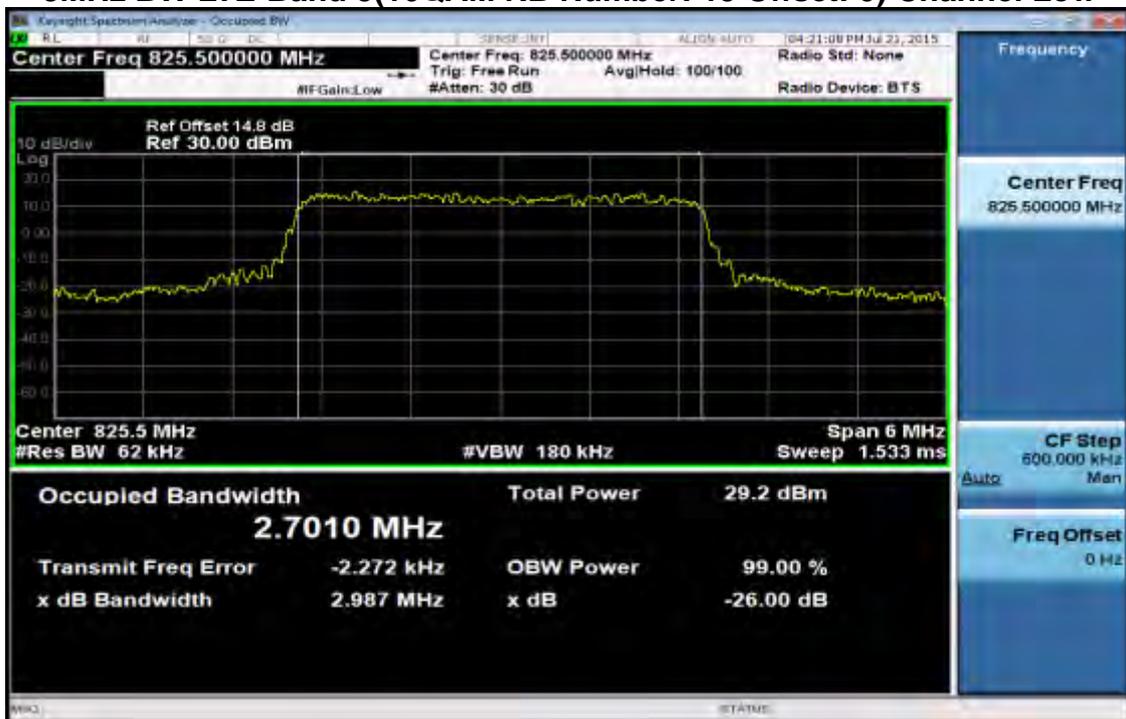
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3MHz BW LTE-Band 5(QPSK RB Number: 15 Offset: 0) Channel High



3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Low



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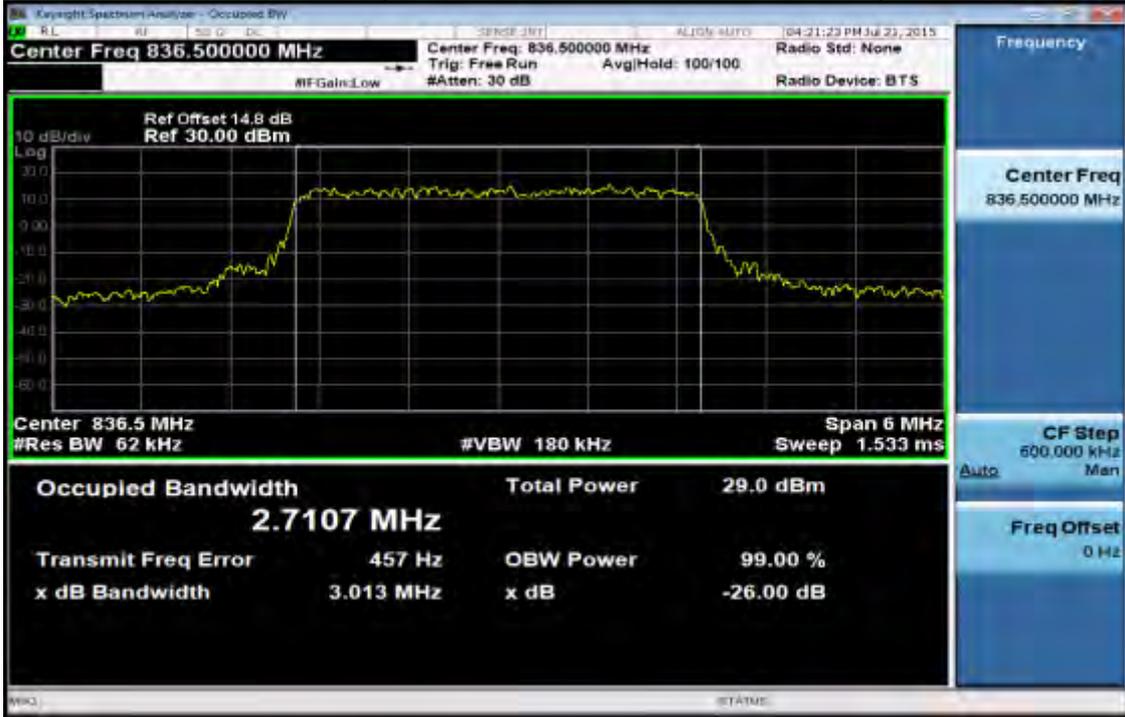
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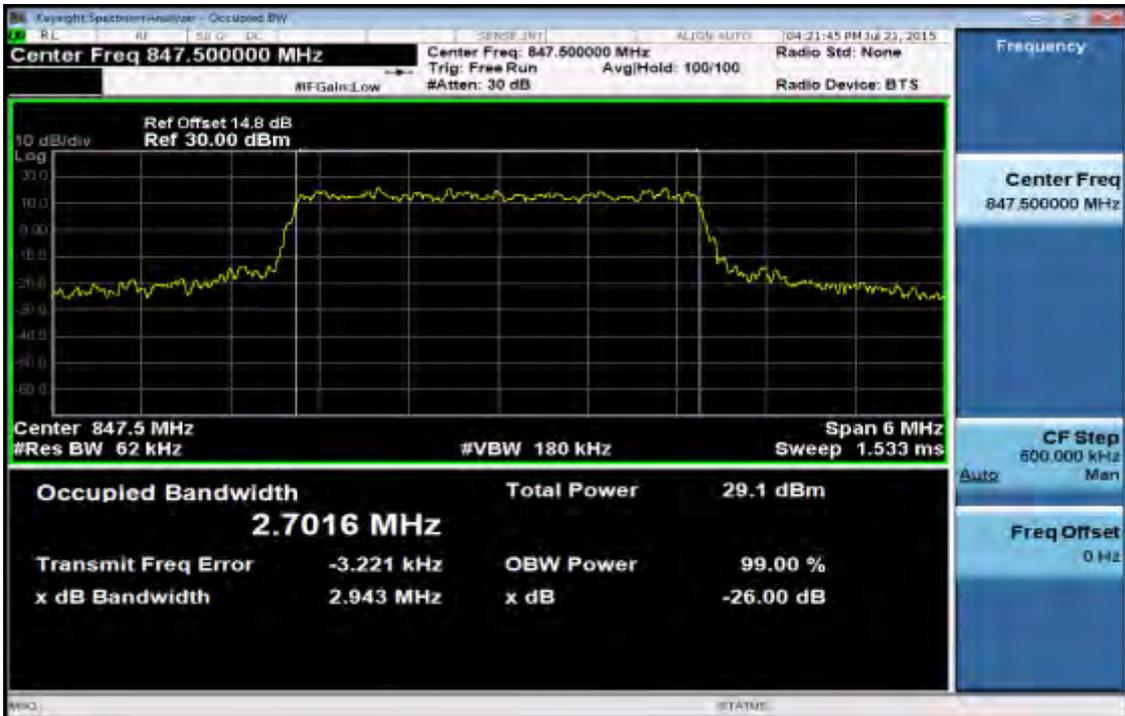
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3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel Mid



3MHz BW LTE-Band 5(16QAM RB Number: 15 Offset: 0) Channel High



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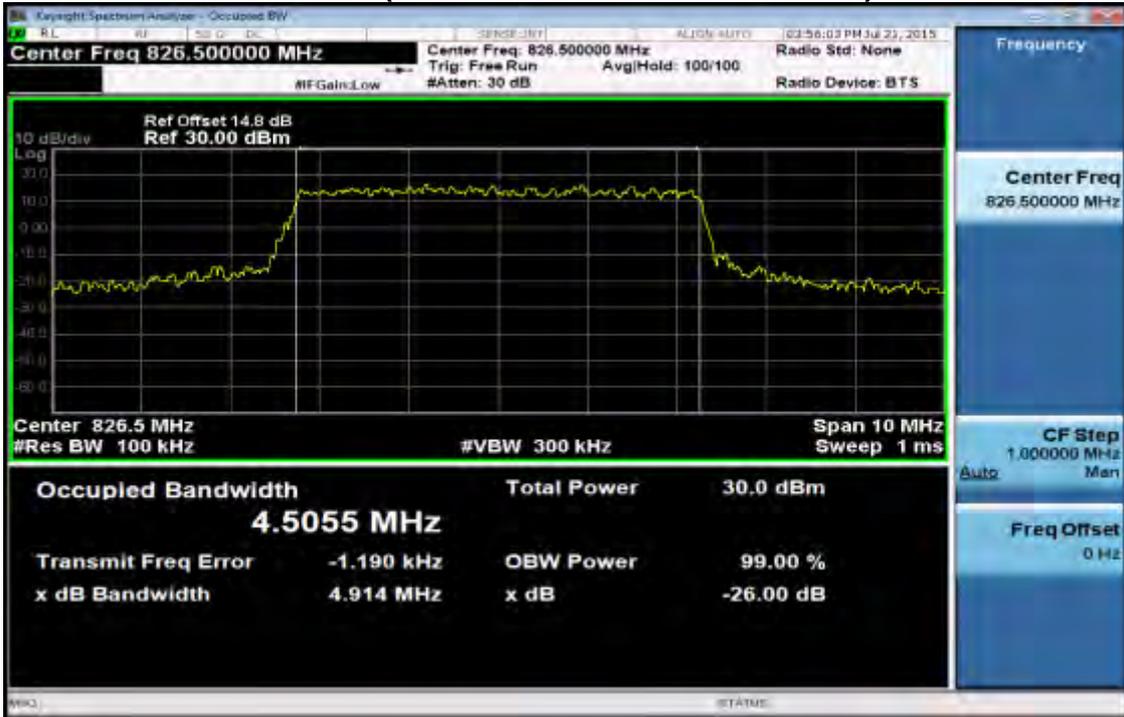
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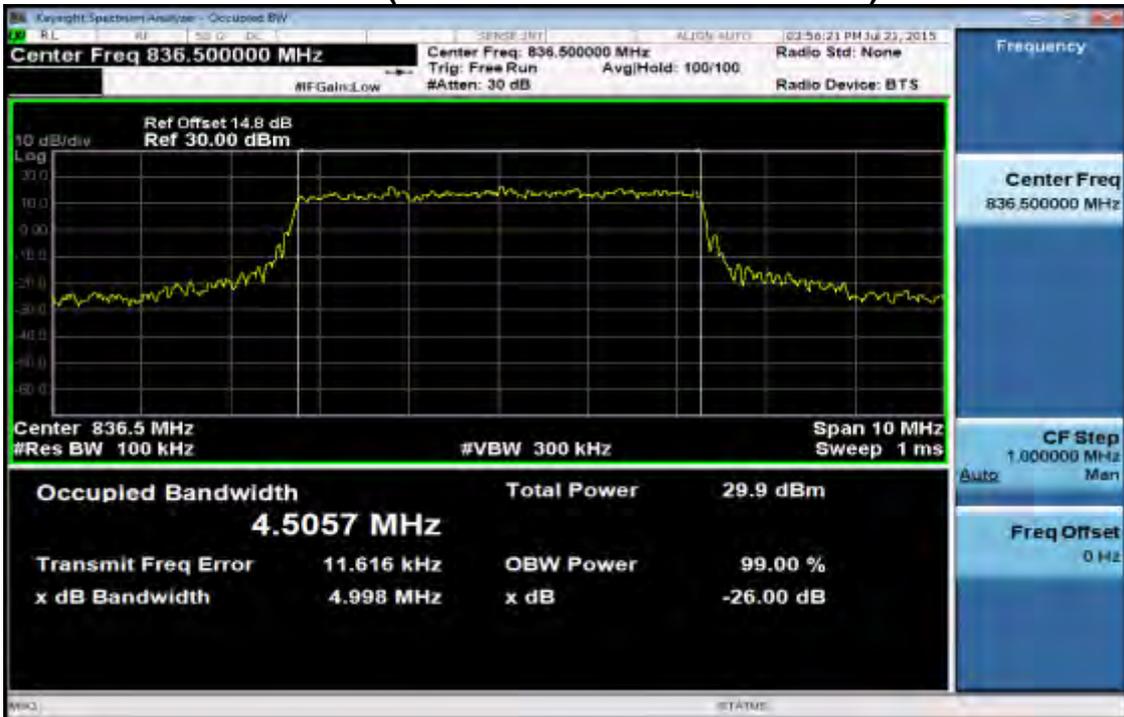
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5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel Mid



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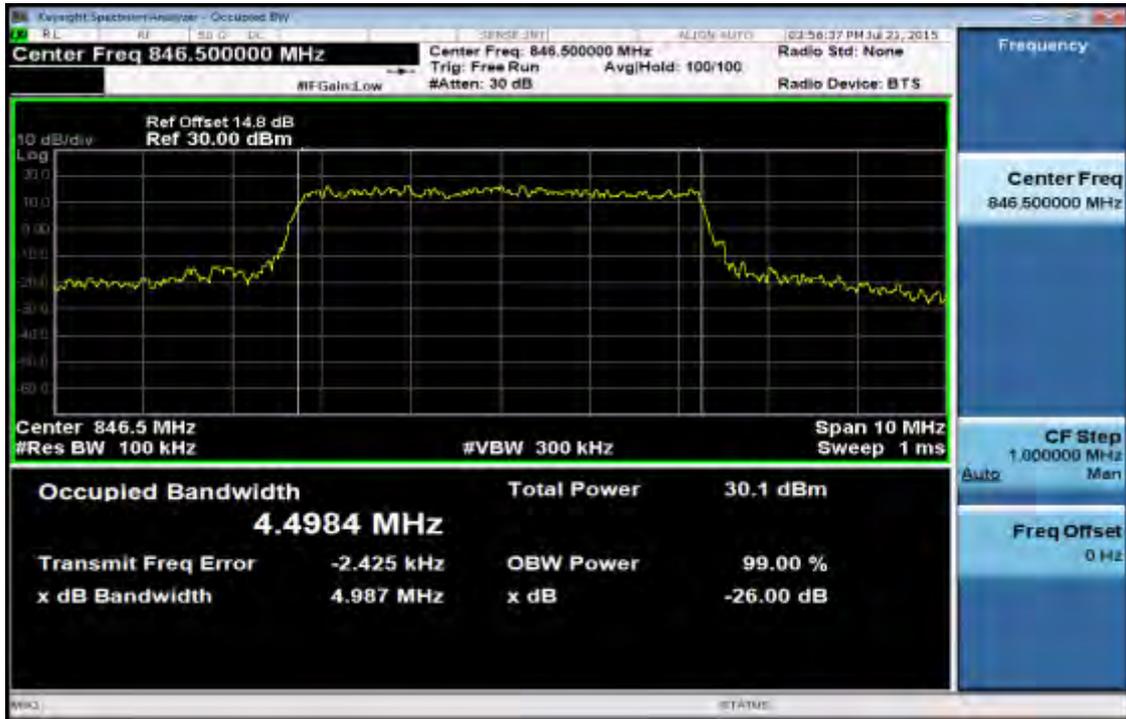
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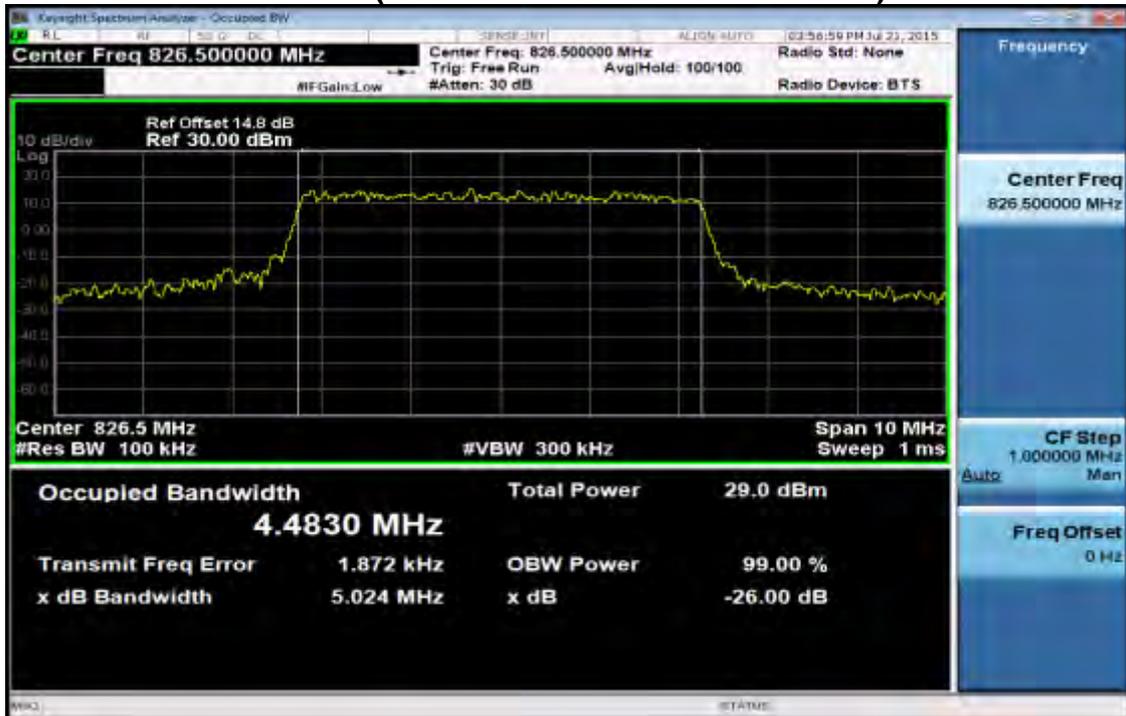
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5MHz BW LTE-Band 5(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Low



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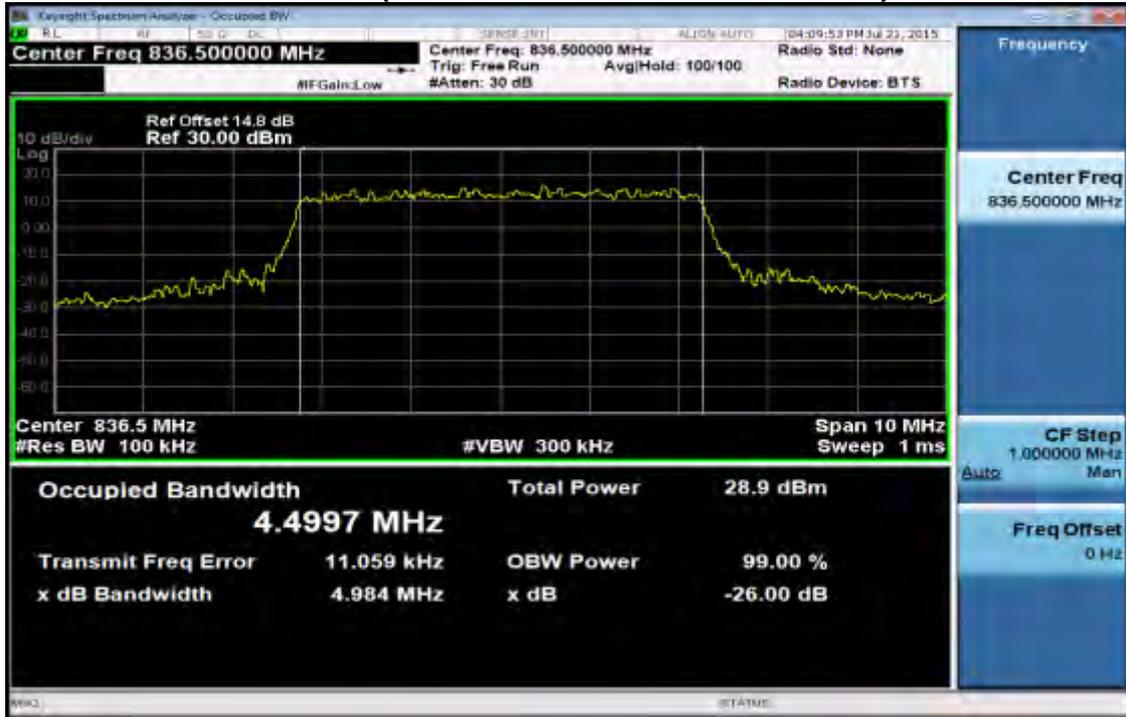
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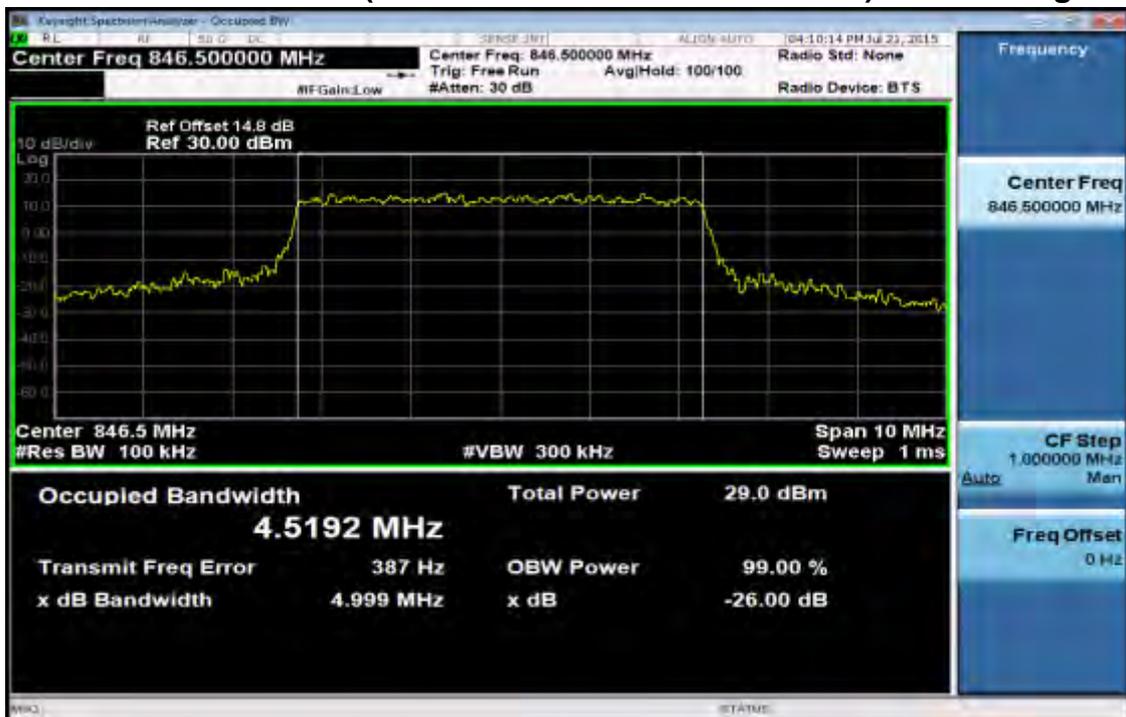
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5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 5(16QAM RB Number: 25 Offset: 0) Channel High



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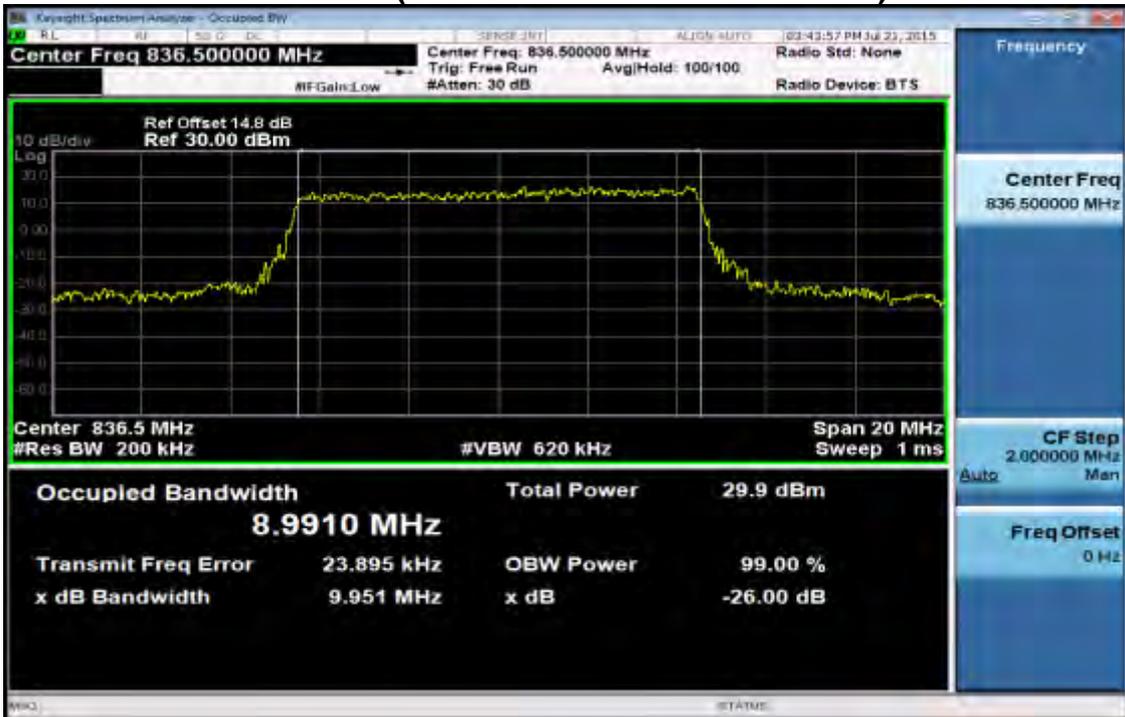
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10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel Mid



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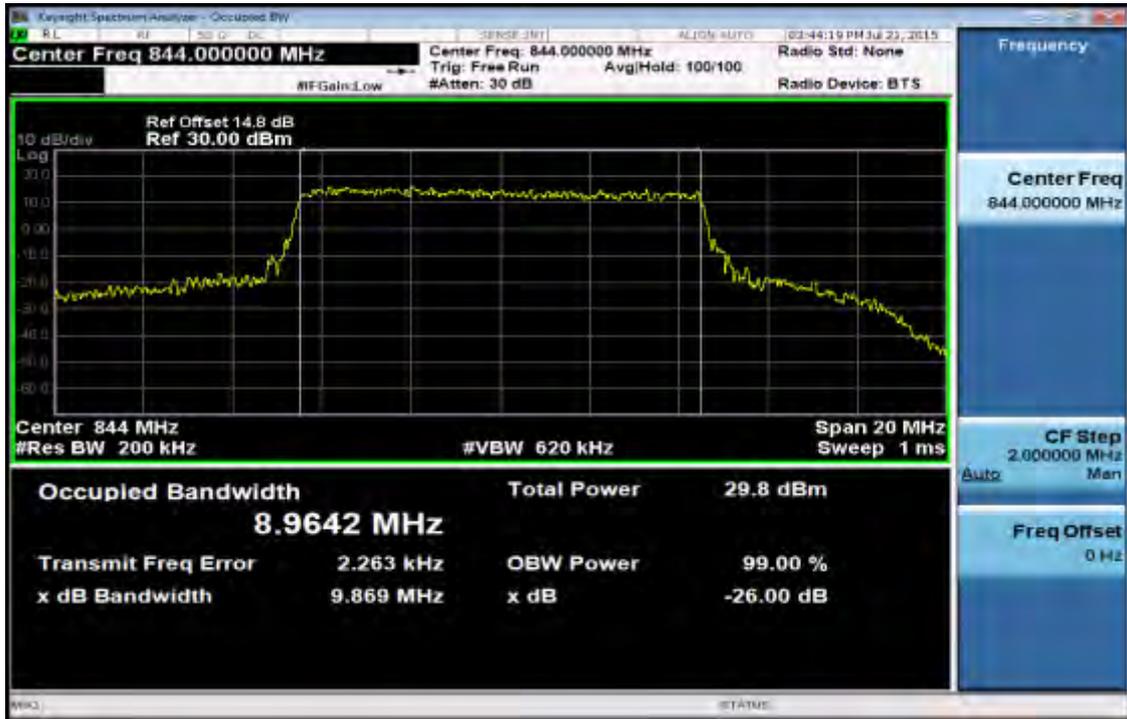
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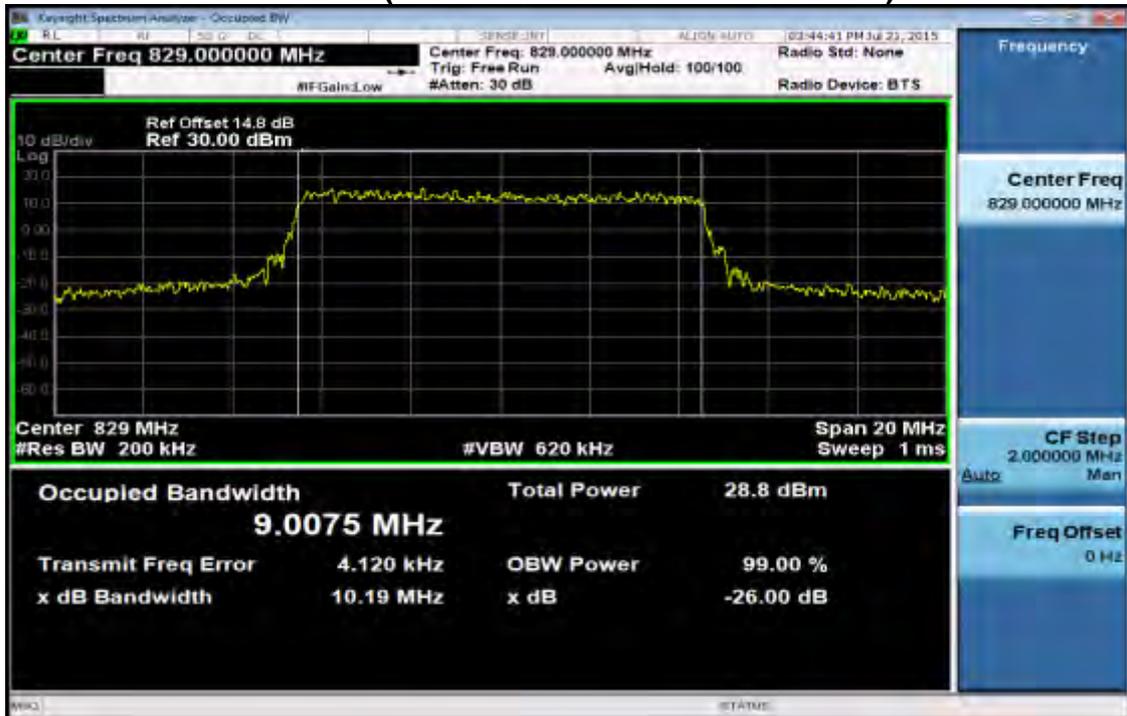
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10MHz BW LTE-Band 5(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Low



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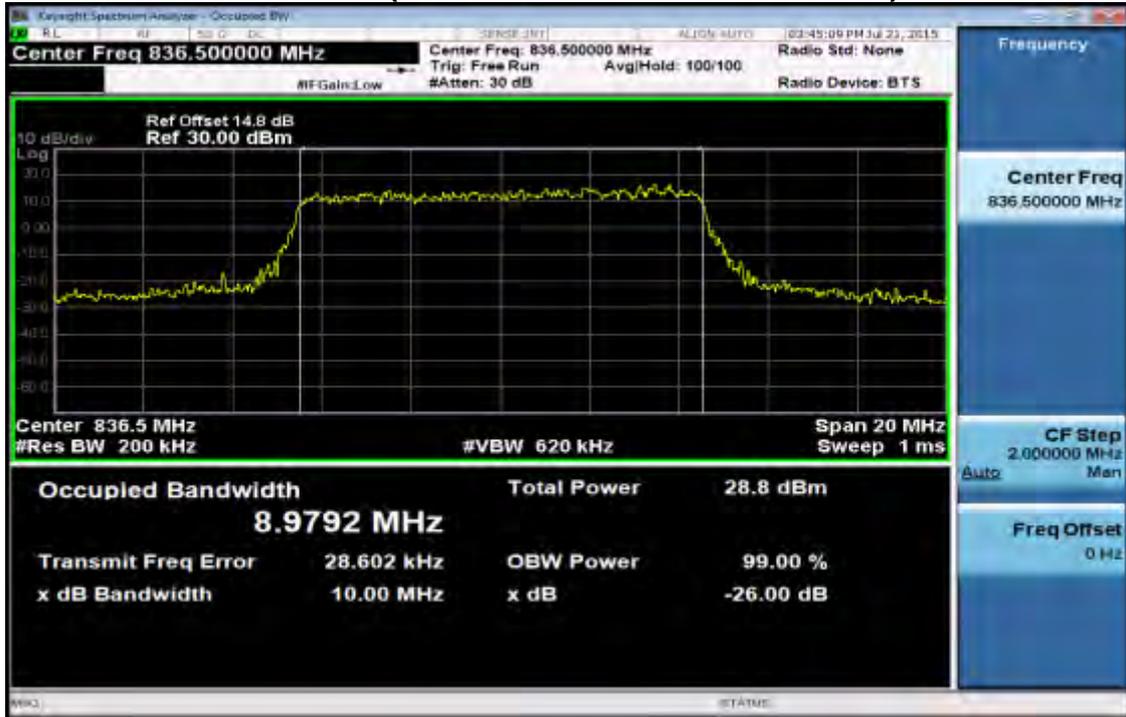
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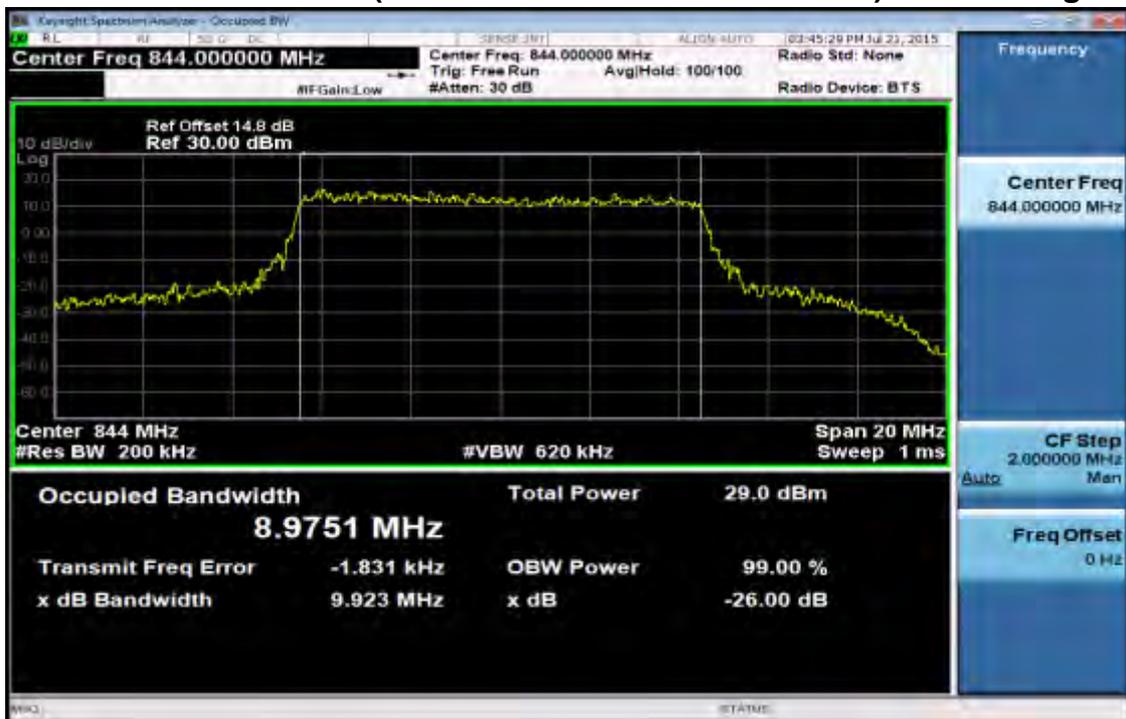
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10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 5(16QAM RB Number: 50 Offset: 0) Channel High



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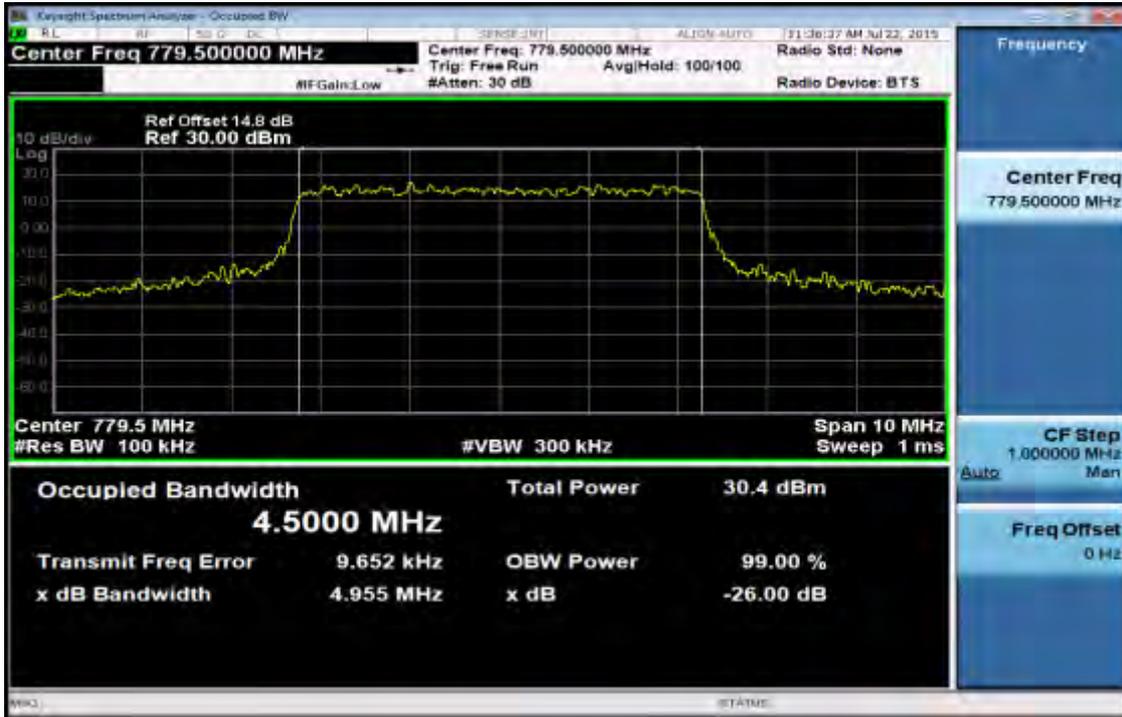
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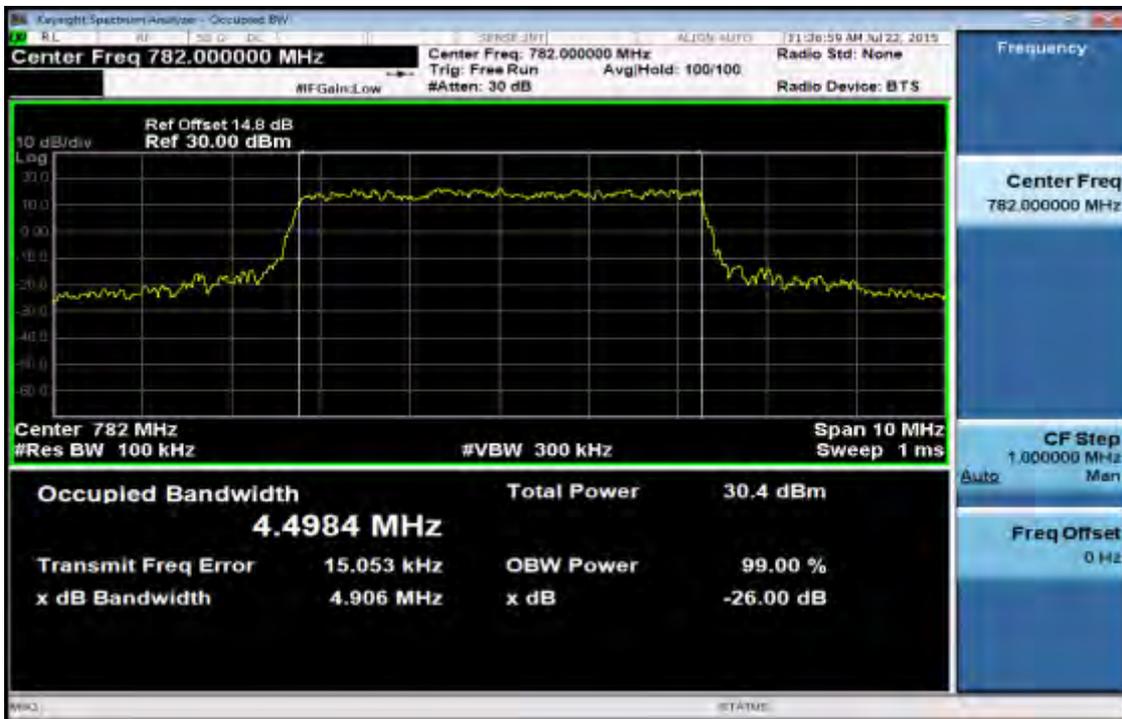
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5MHz BW LTE-Band 13(QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 13(QPSK RB Number: 25 Offset: 0) Channel Mid



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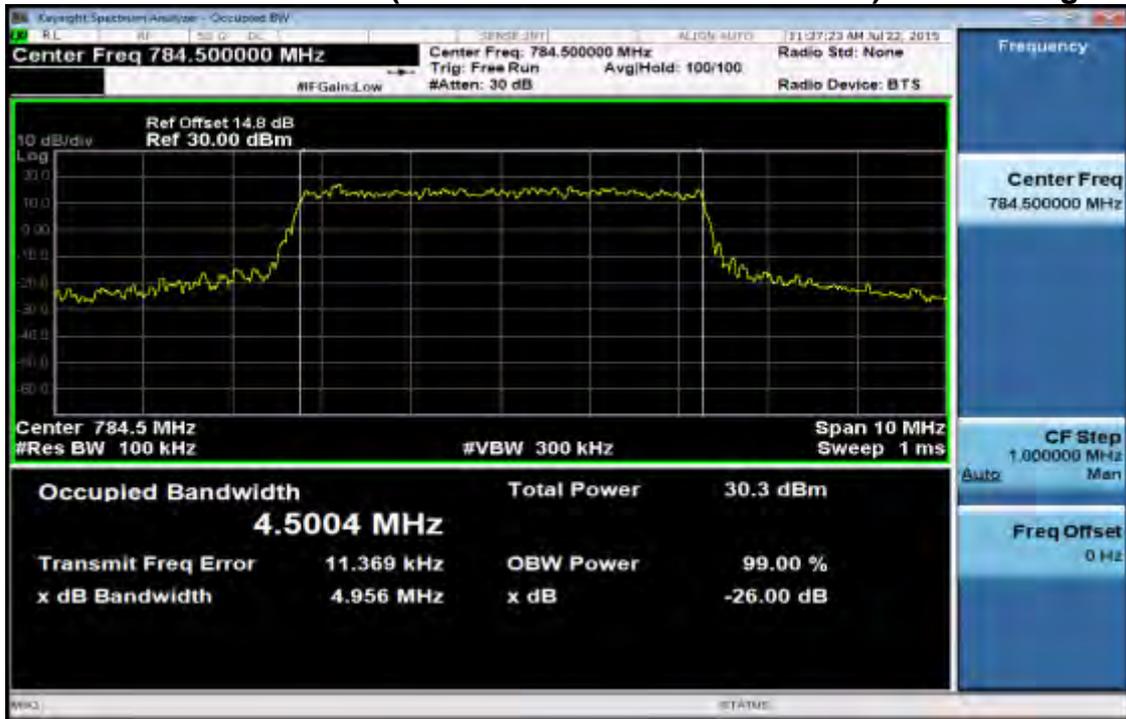
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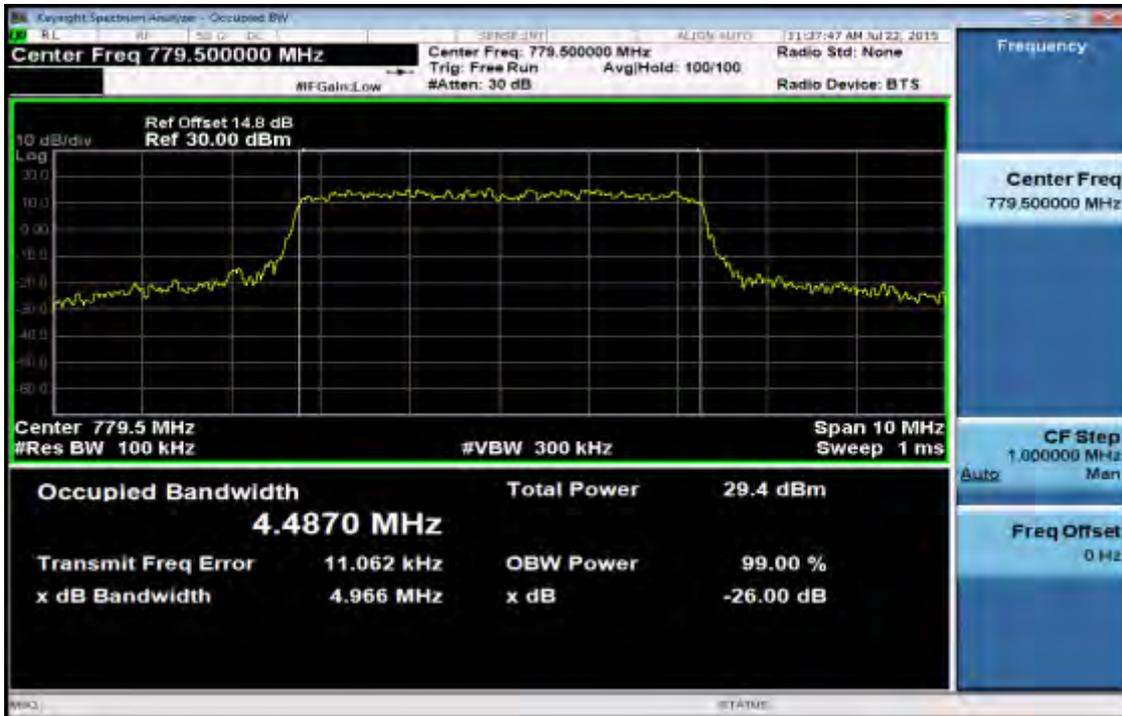
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5MHz BW LTE-Band 13(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 13(16QAM RB Number: 25 Offset: 0) Channel Low



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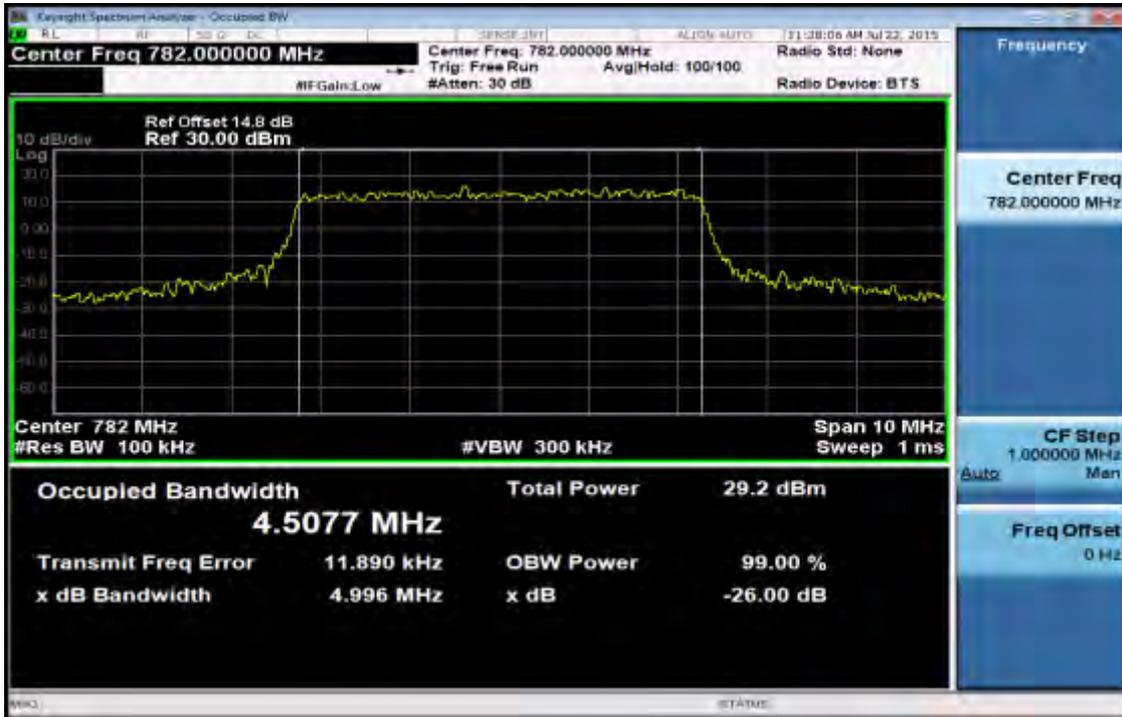
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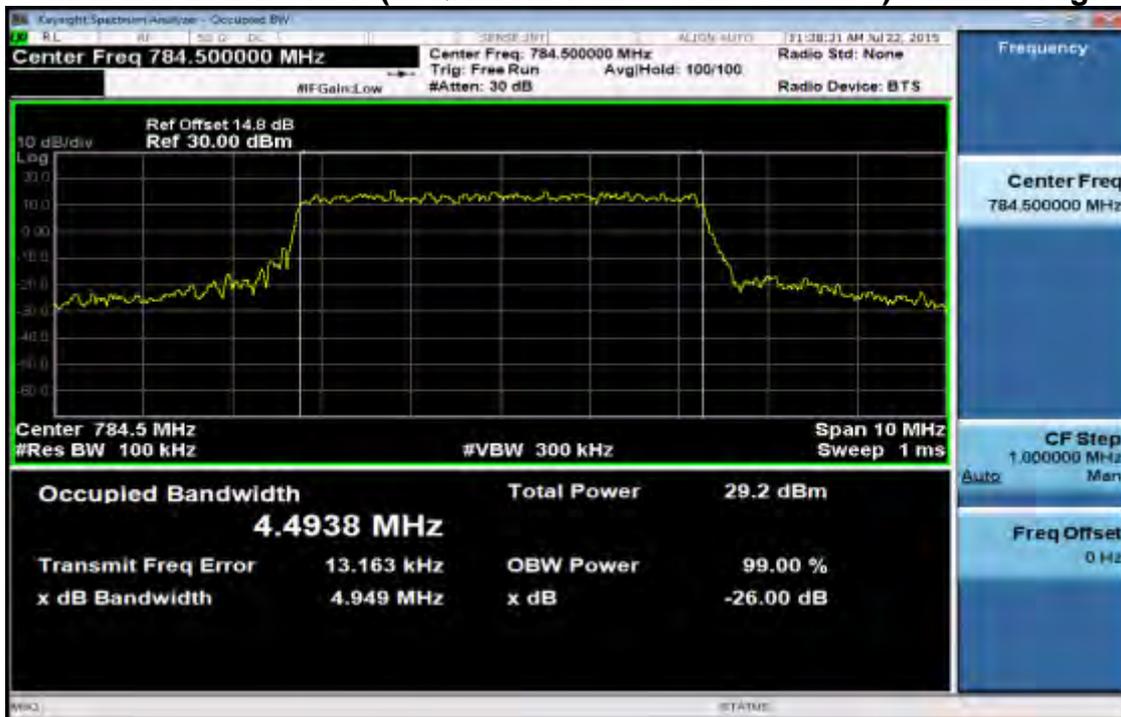
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5MHz BW LTE-Band 13(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 13(16QAM RB Number: 25 Offset: 0) Channel High



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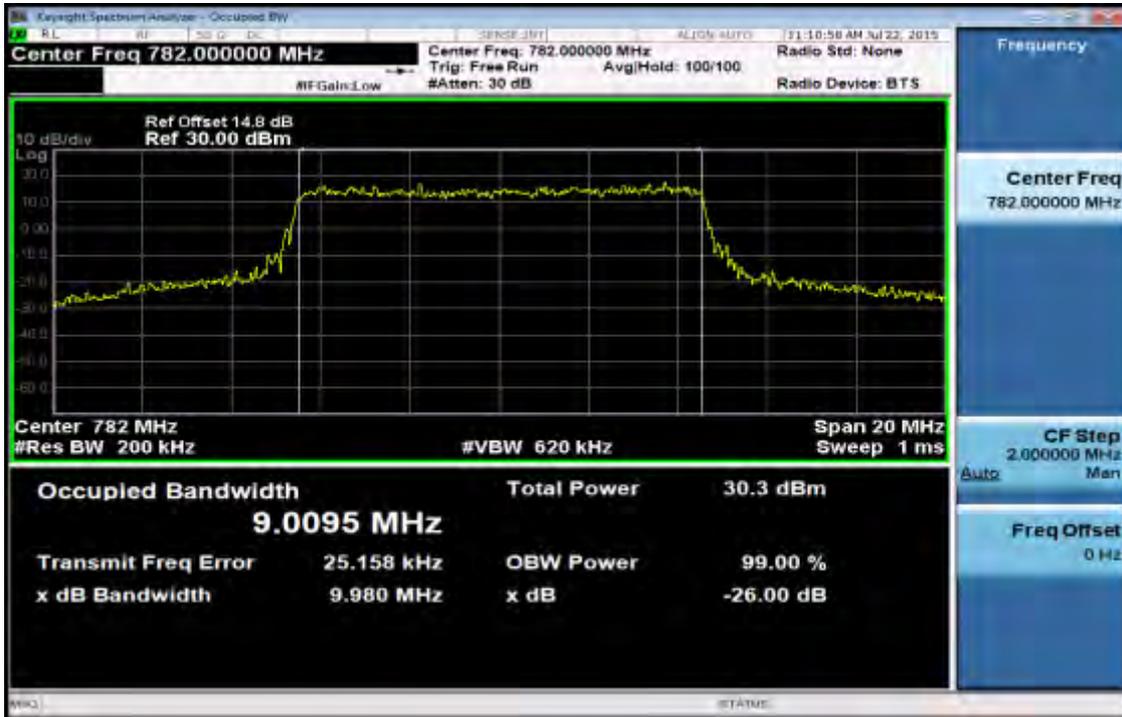
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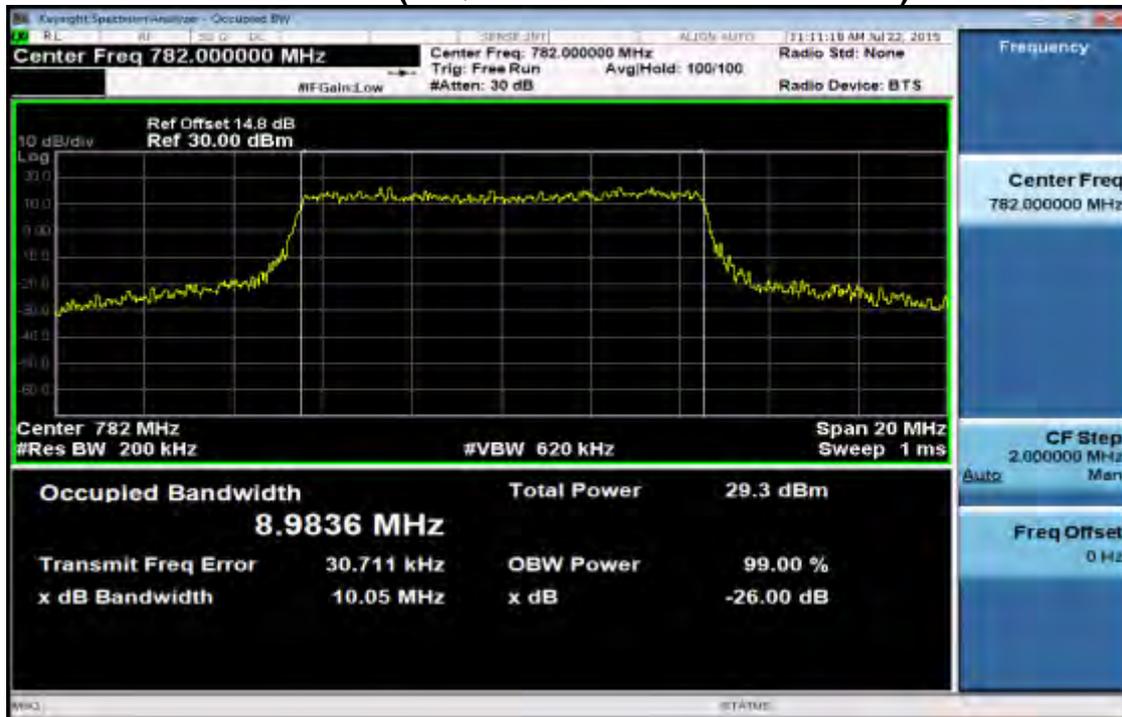
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10MHz BW LTE-Band 13(QPSK RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 13(16QAM RB Number: 50 Offset: 0) Channel Mid



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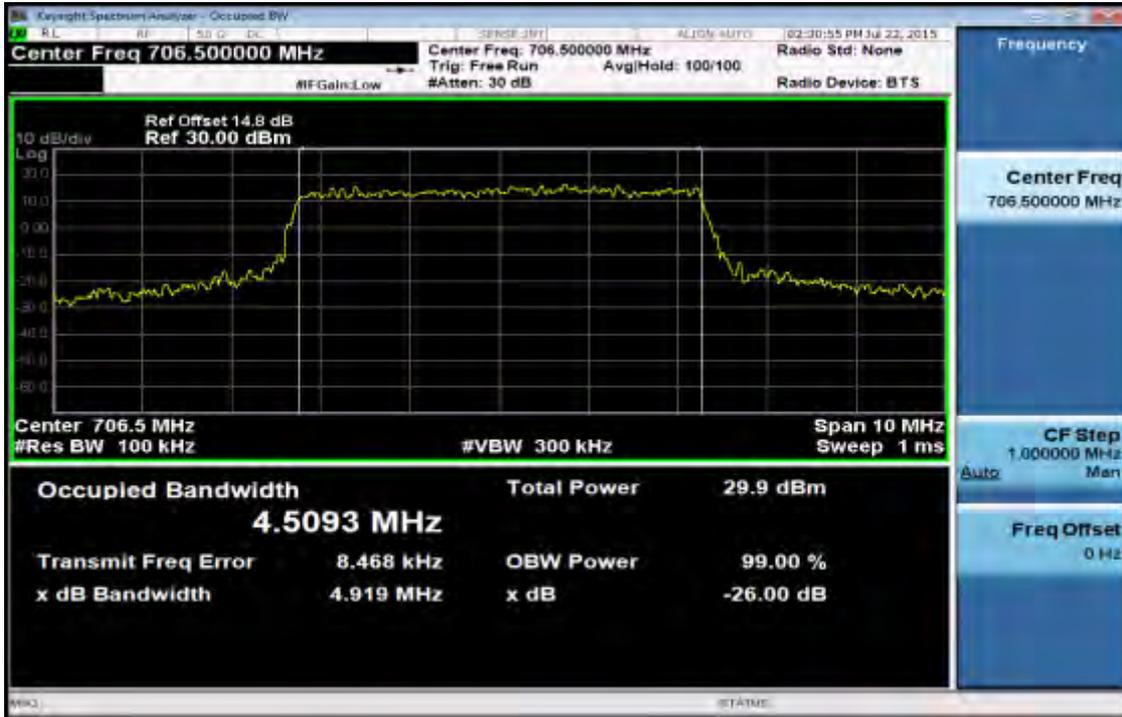
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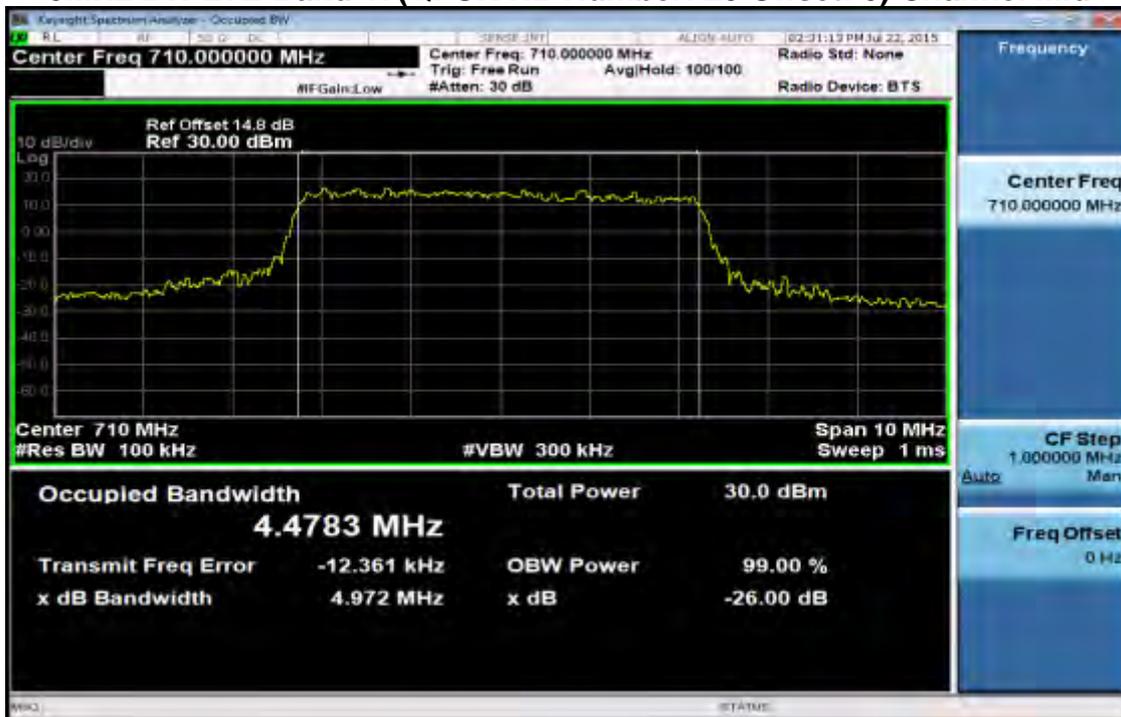
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5MHz BW LTE-Band 17 (QPSK RB Number: 25 Offset: 0) Channel Low



5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel Mid



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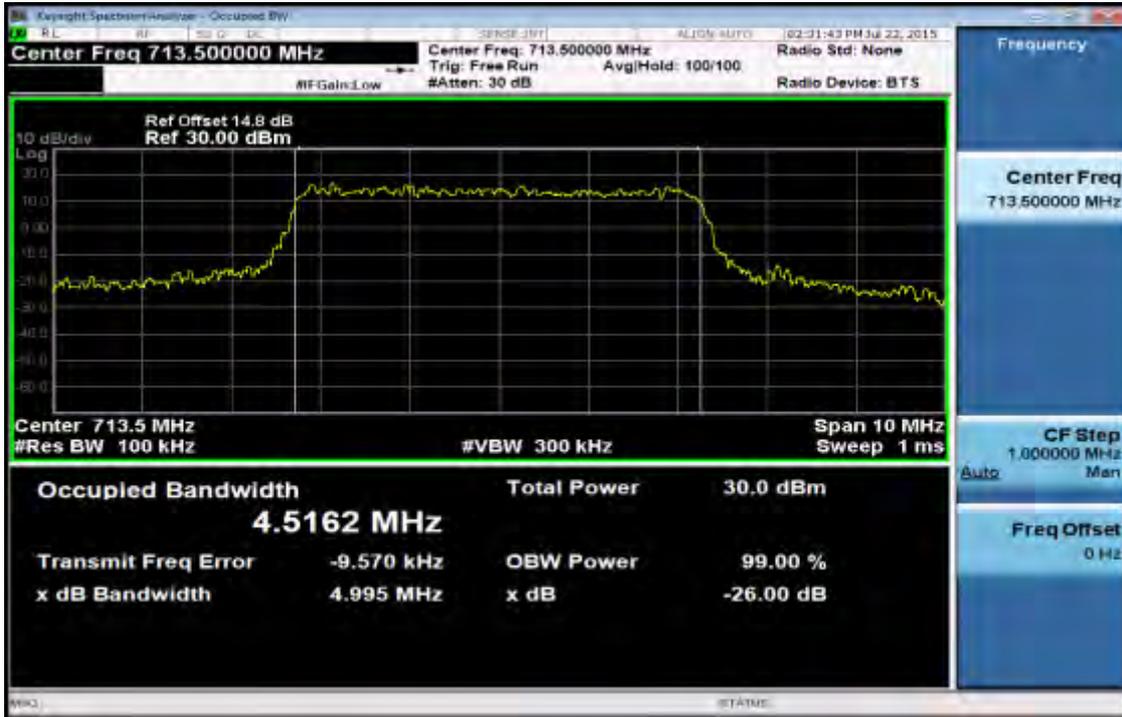
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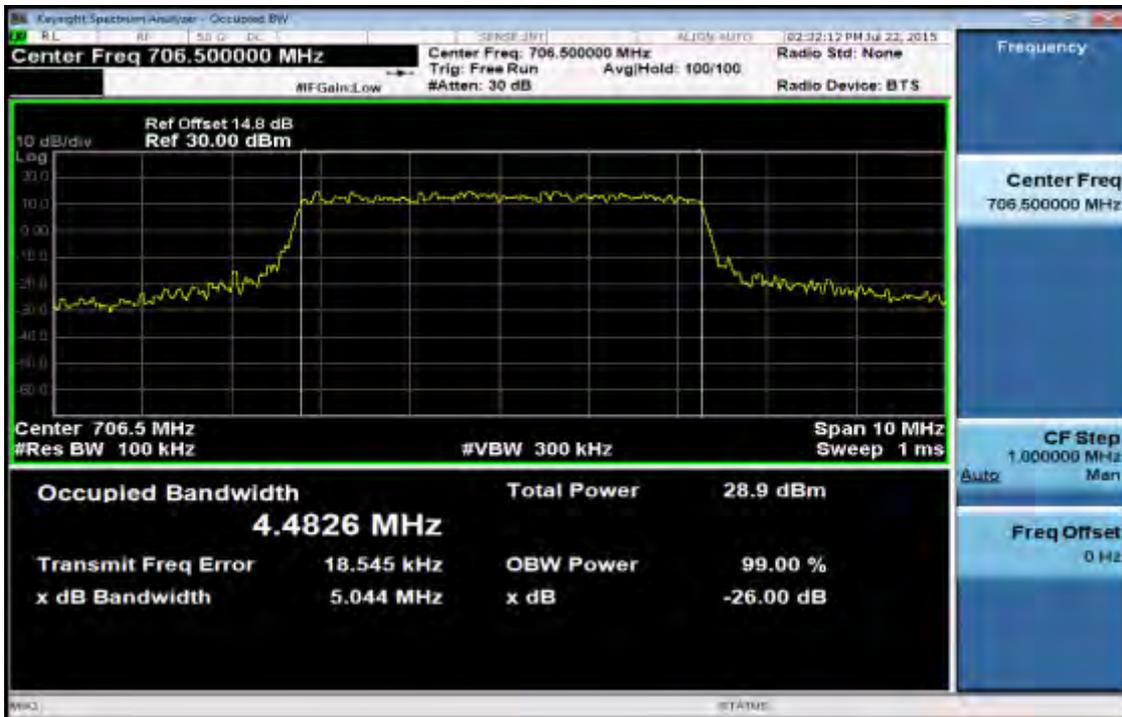
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5MHz BW LTE-Band 17(QPSK RB Number: 25 Offset: 0) Channel High



5MHz BW LTE-Band 17 (16QAM RB Number: 25 Offset: 0) Channel Low



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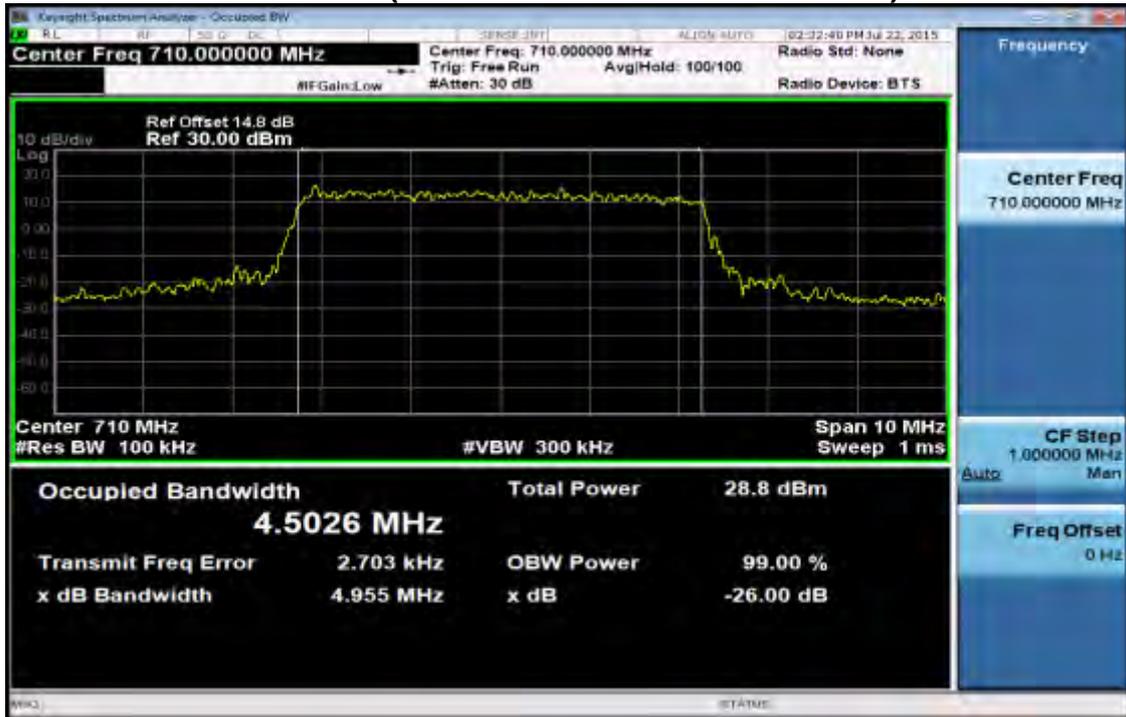
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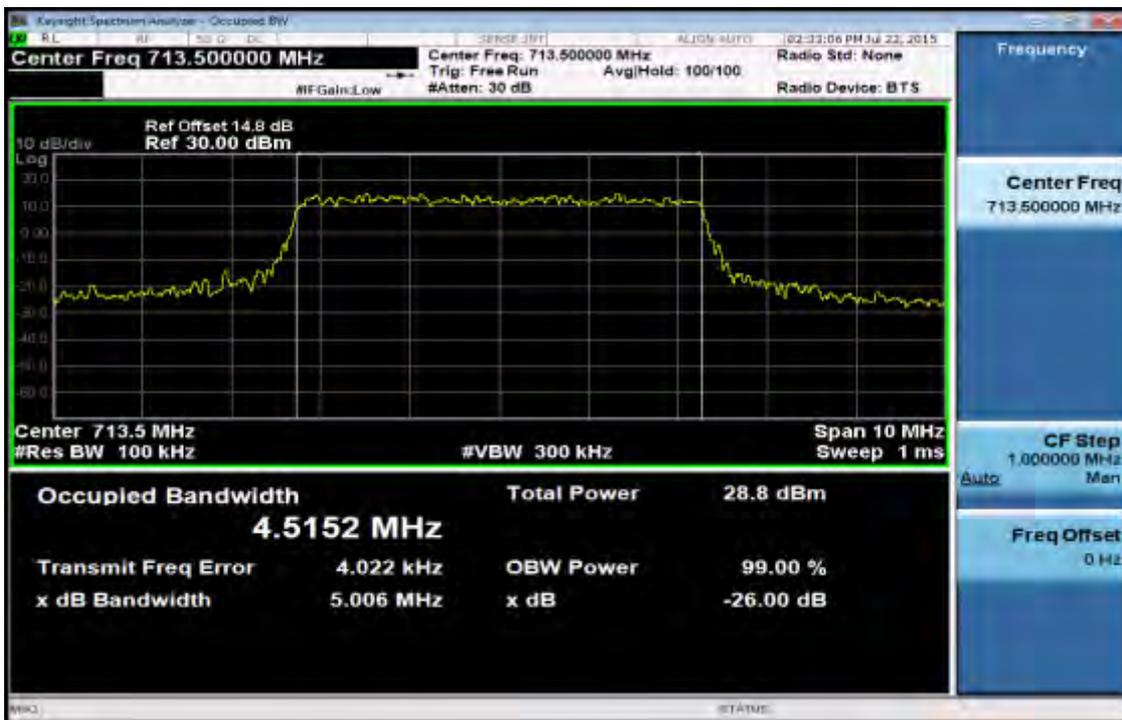
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5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel Mid



5MHz BW LTE-Band 17(16QAM RB Number: 25 Offset: 0) Channel High



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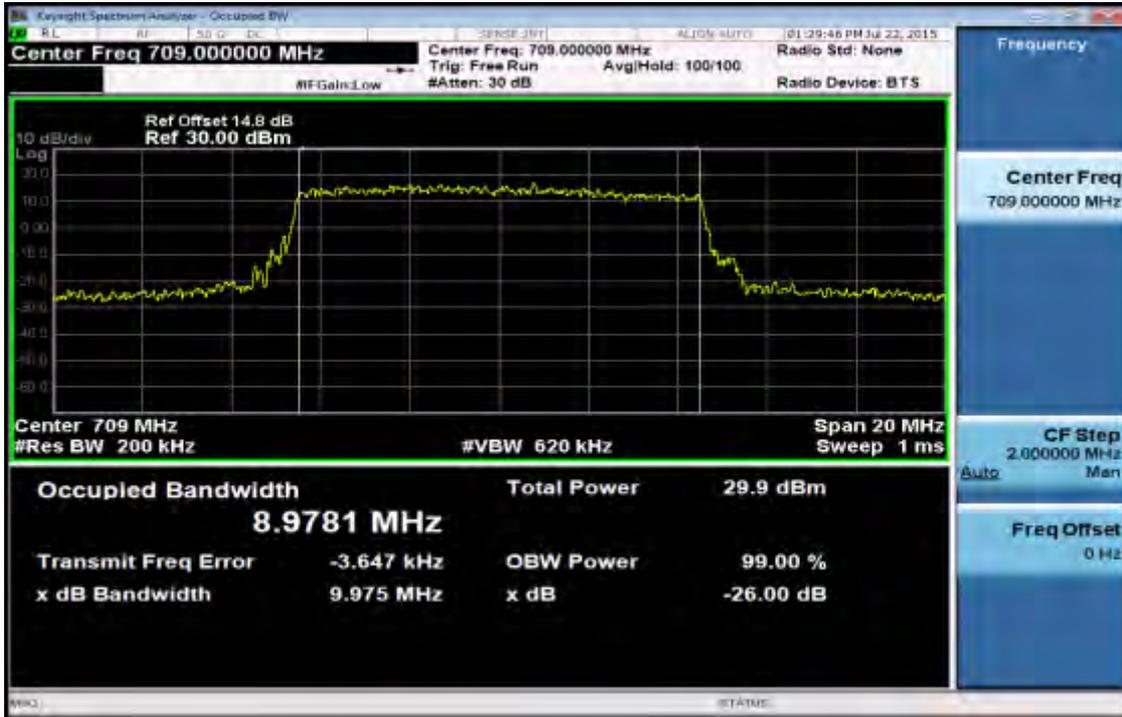
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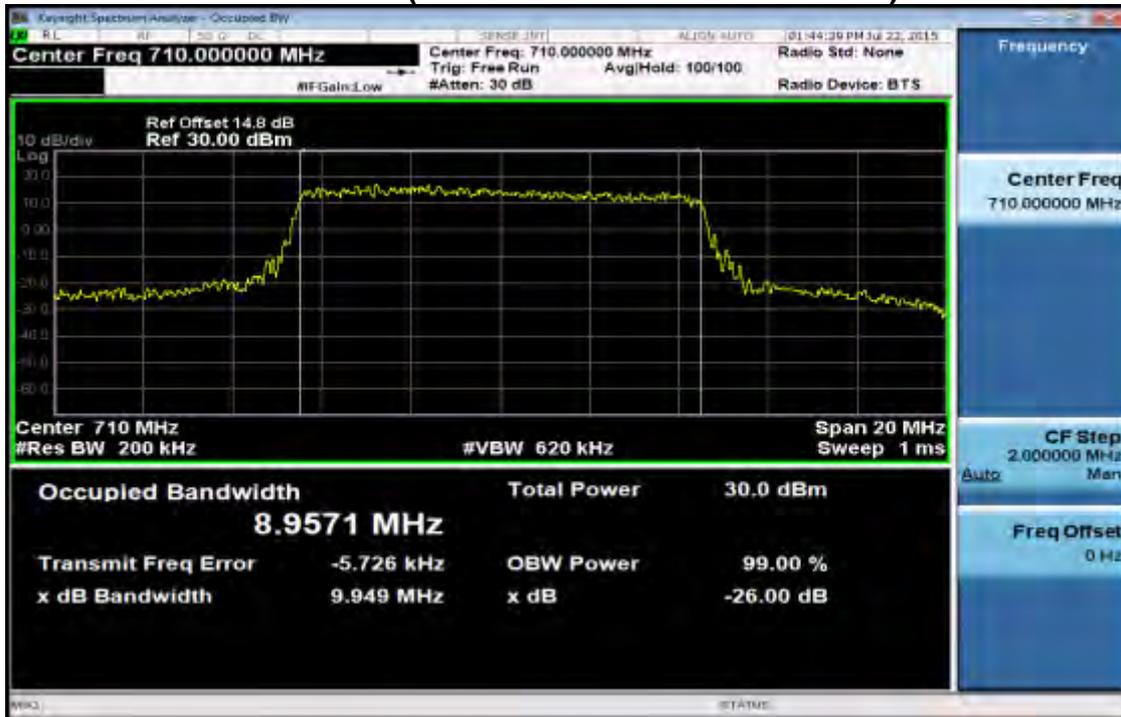
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10MHz BW LTE-Band 17 (QPSK RB Number: 50 Offset: 0) Channel Low



10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel Mid



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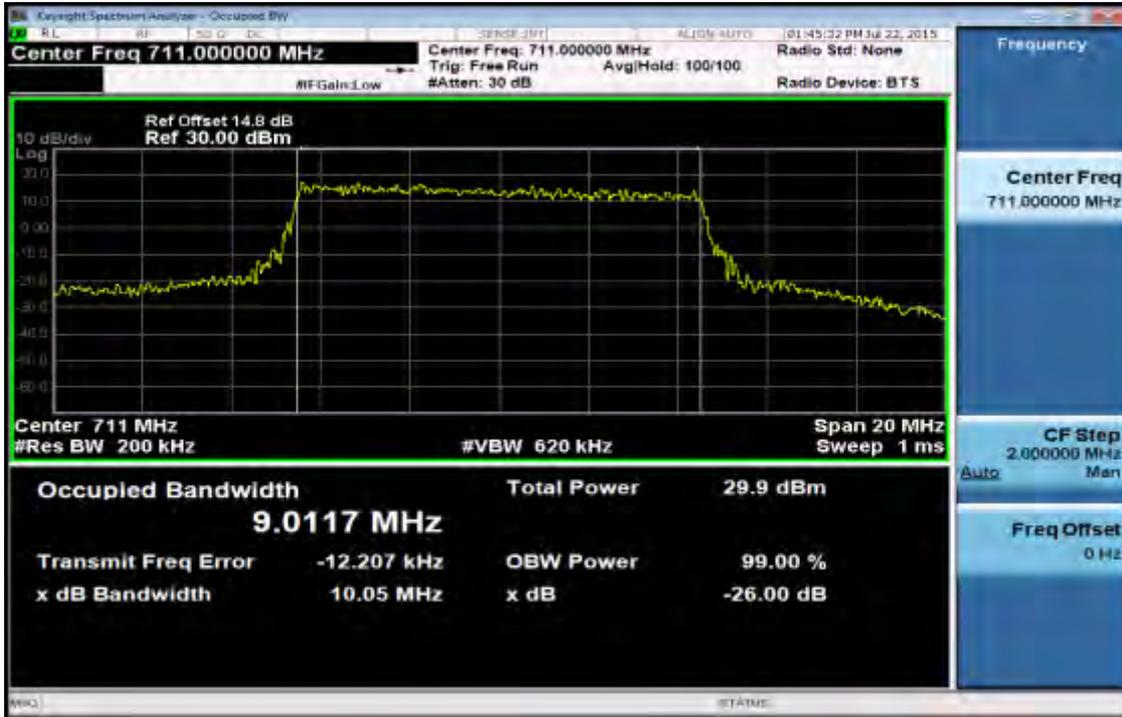
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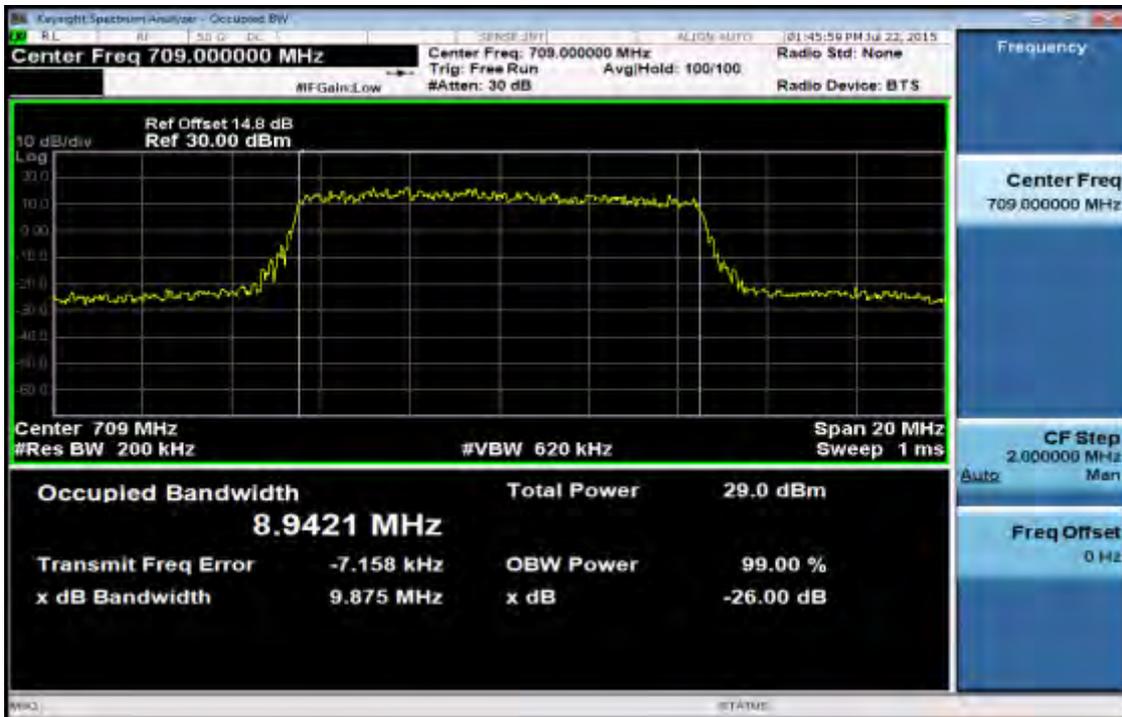
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10MHz BW LTE-Band 17(QPSK RB Number: 50 Offset: 0) Channel High



10MHz BW LTE-Band 17 (16QAM RB Number: 50 Offset: 0) Channel Low



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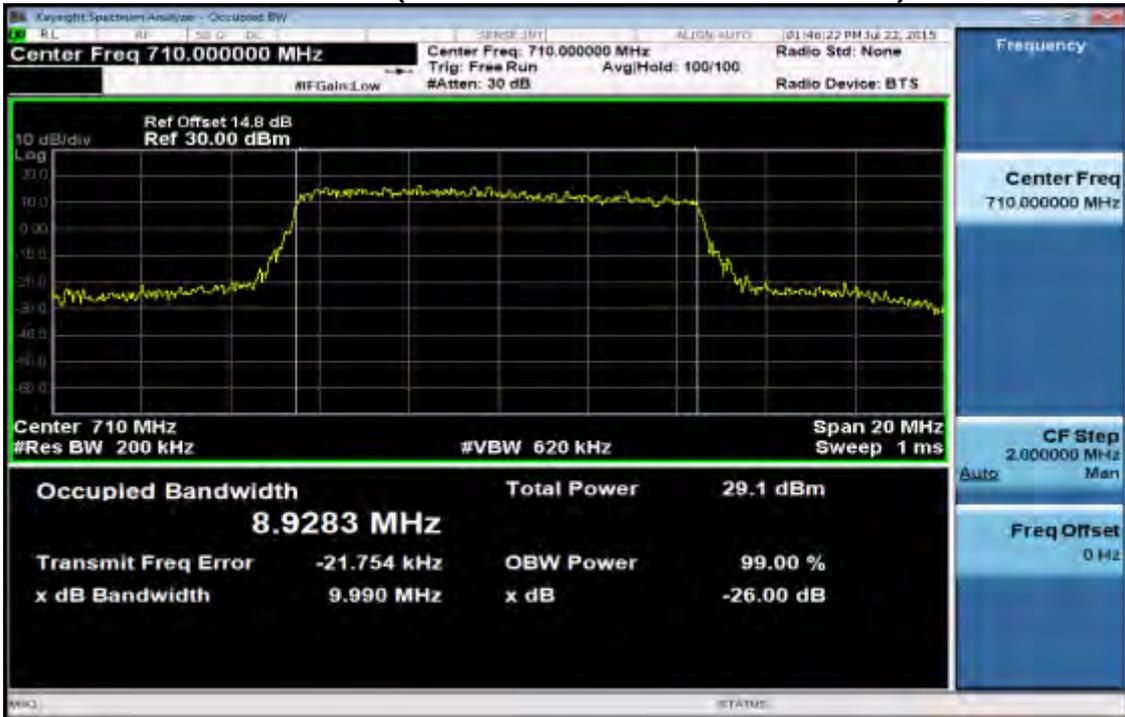
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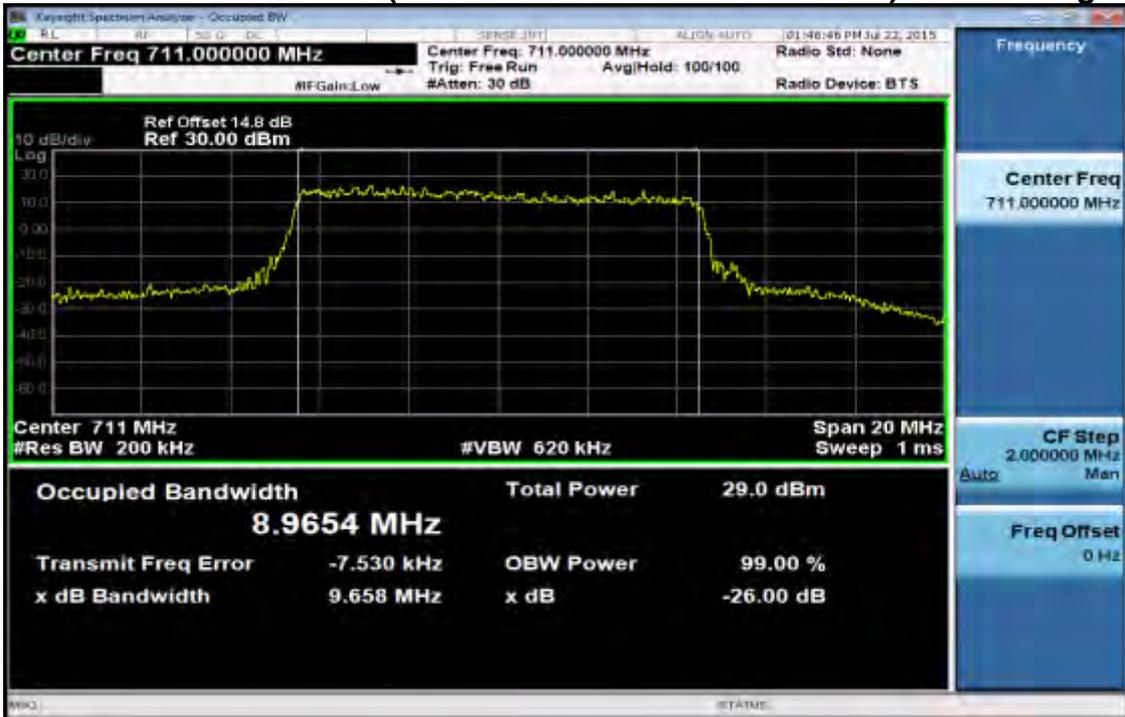
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10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel Mid



10MHz BW LTE-Band 17(16QAM RB Number: 50 Offset: 0) Channel High



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §27.53(g)(h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than $43 + 10 \log$ (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (m) (4) shall not be less than $55 + 10 \log$ (mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

FCC §27.53(c) (2) (4)

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

(2) On any frequency outside the 776– 788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log$ (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log$ (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in § 27.53(m)(6). In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

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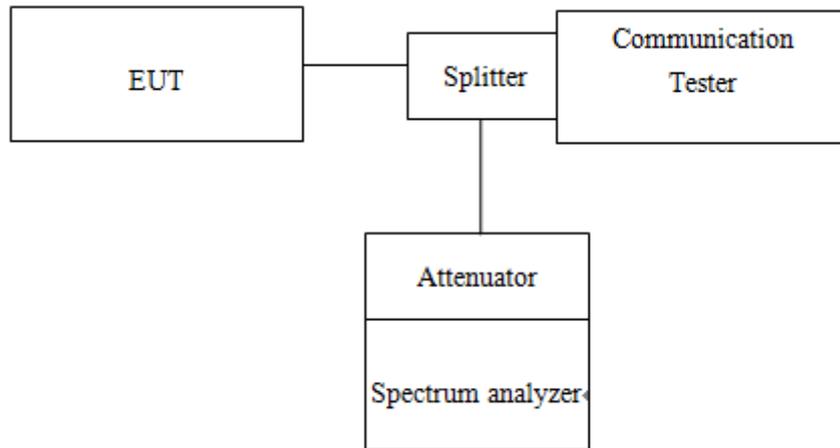
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9.2. Test SET-UP



9.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

1. To connect Antenna Port of EUT to Spectrum.
2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

Band Edge

1. To connect Antenna Port of EUT to Spectrum.
2. The band edge of low and high channels for the highest RF powers was measured. Setting $RBW \geq 1\% EBW$.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

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9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Communication Tester	Anritsu	MT8820C	6201107337	05/27/2015	05/26/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/19/2014	12/18/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2015	06/17/2016
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

9.5. Measurement Result:

Refer to next pages.

NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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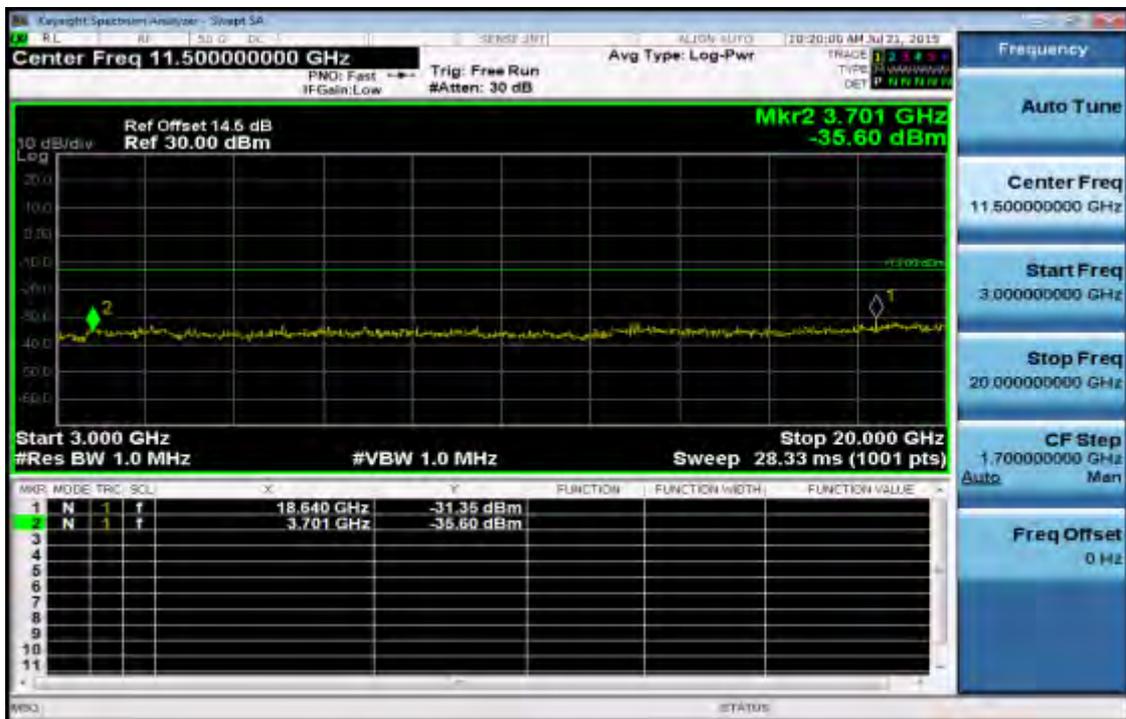
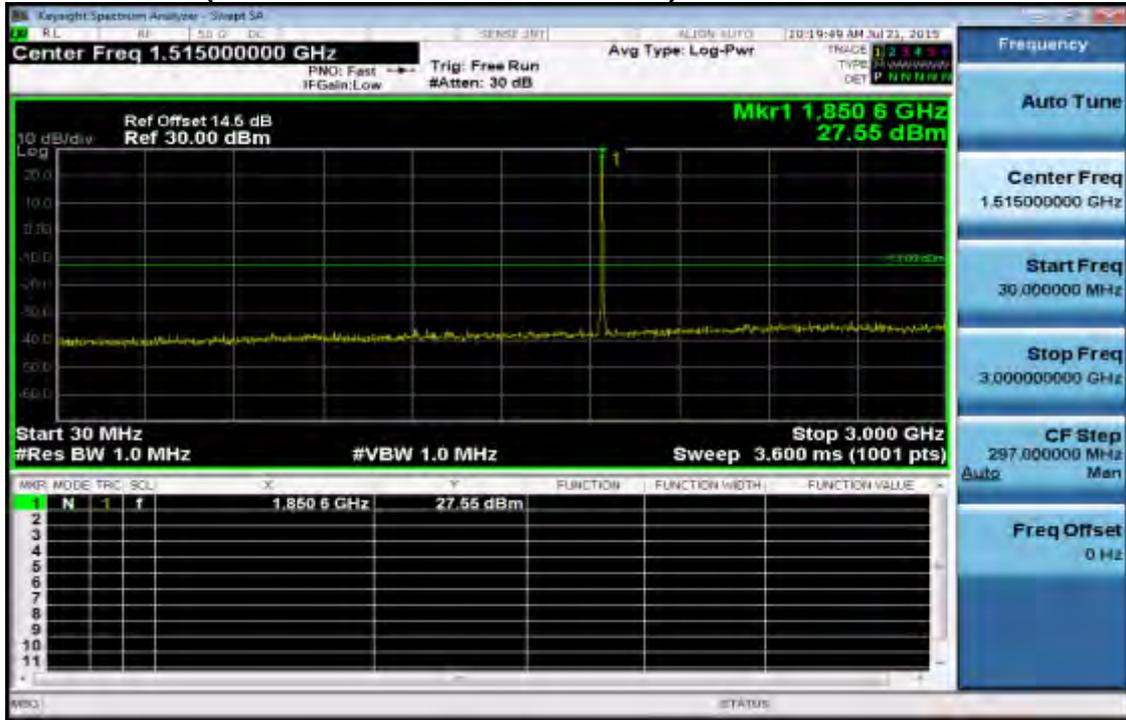
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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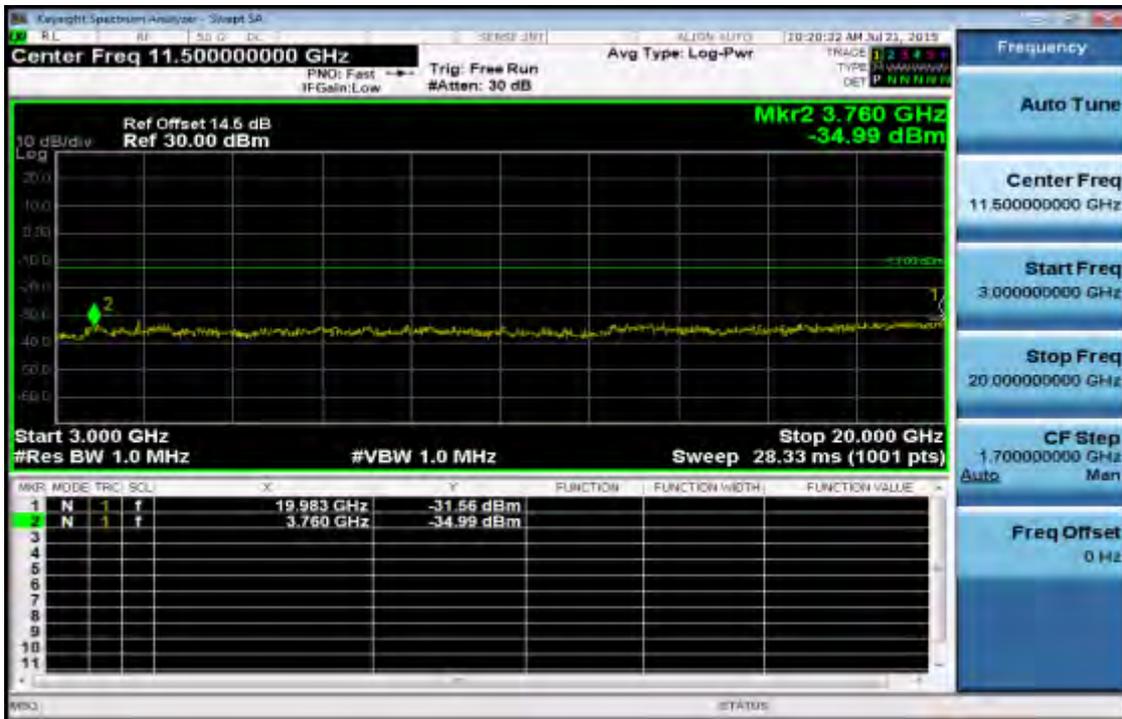
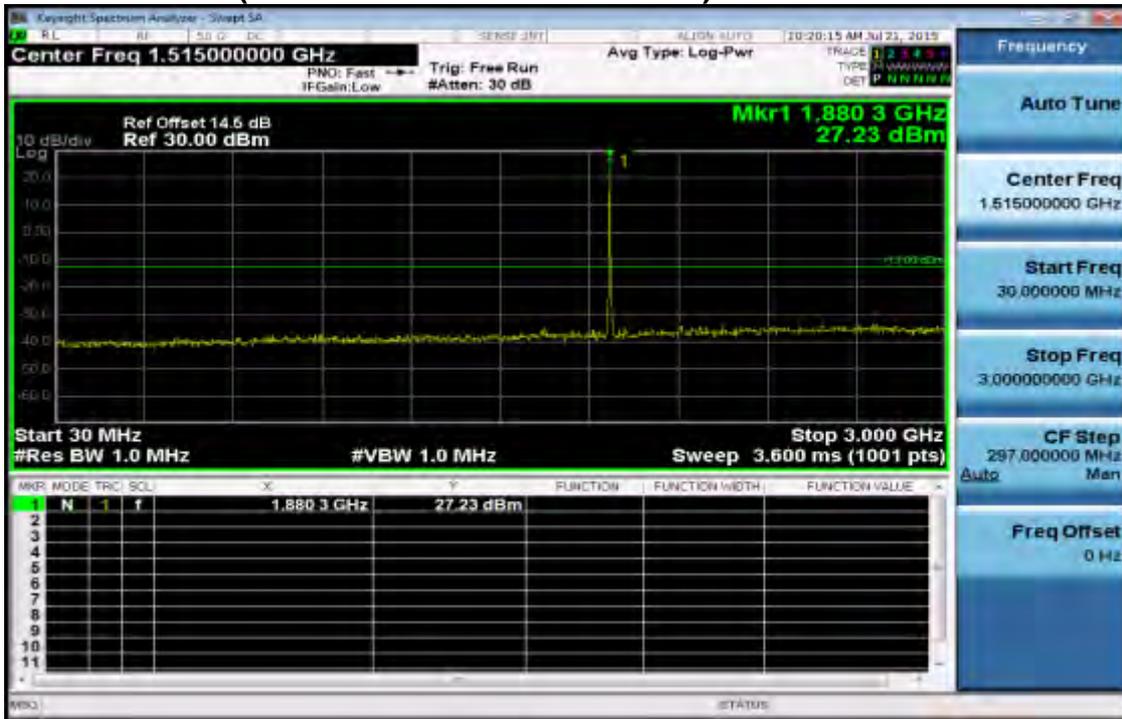
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**Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

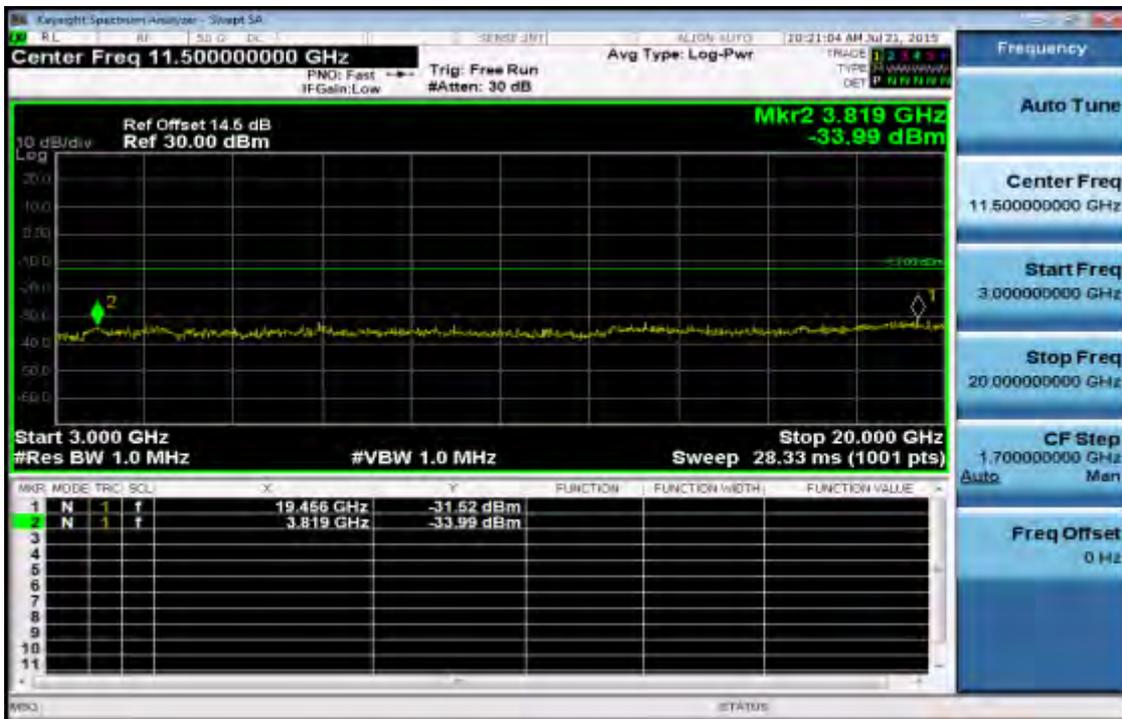
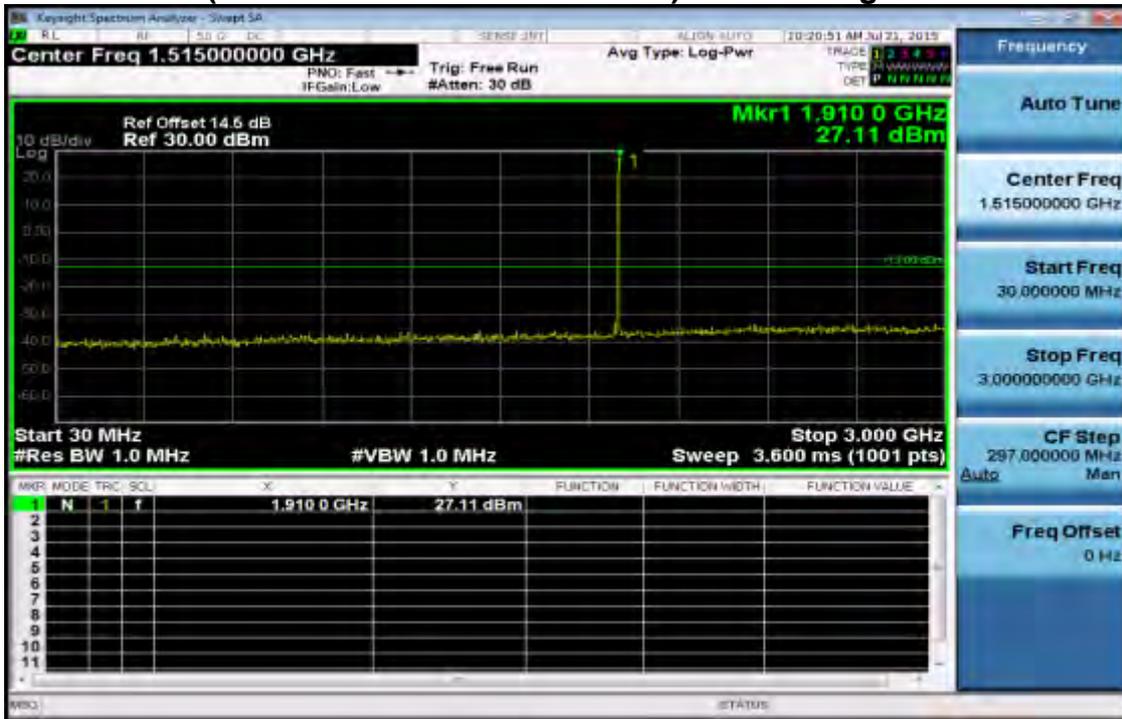


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Out of Band emission at antenna terminals–1.4MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Highest



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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 5) Channel Highest**



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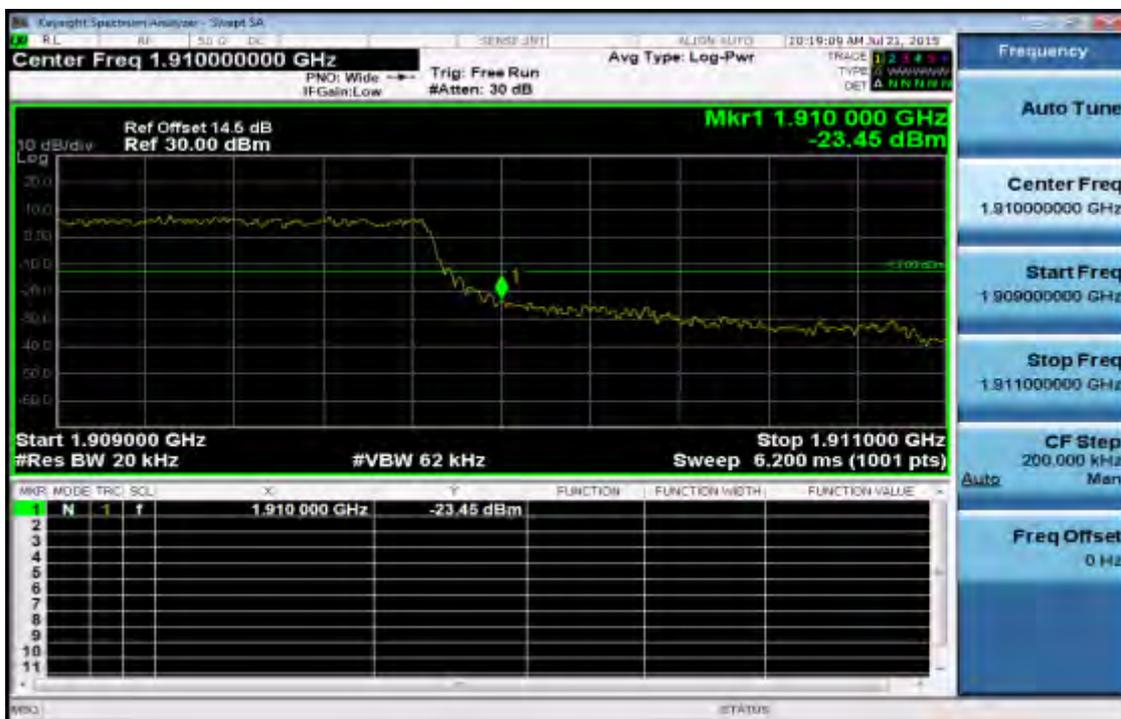
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**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
 (QPSK RB Number: 6 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –1.4MHz BW LTE-Band 2
 (QPSK RB Number: 6 Offset: 0) Channel Highest**

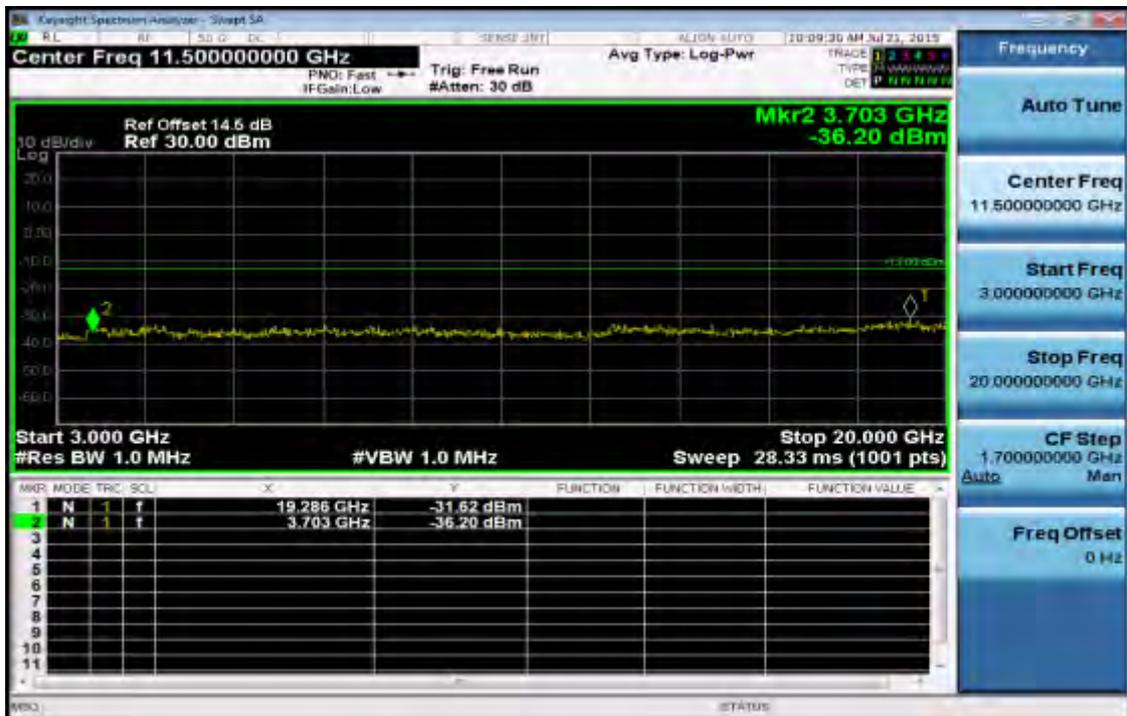
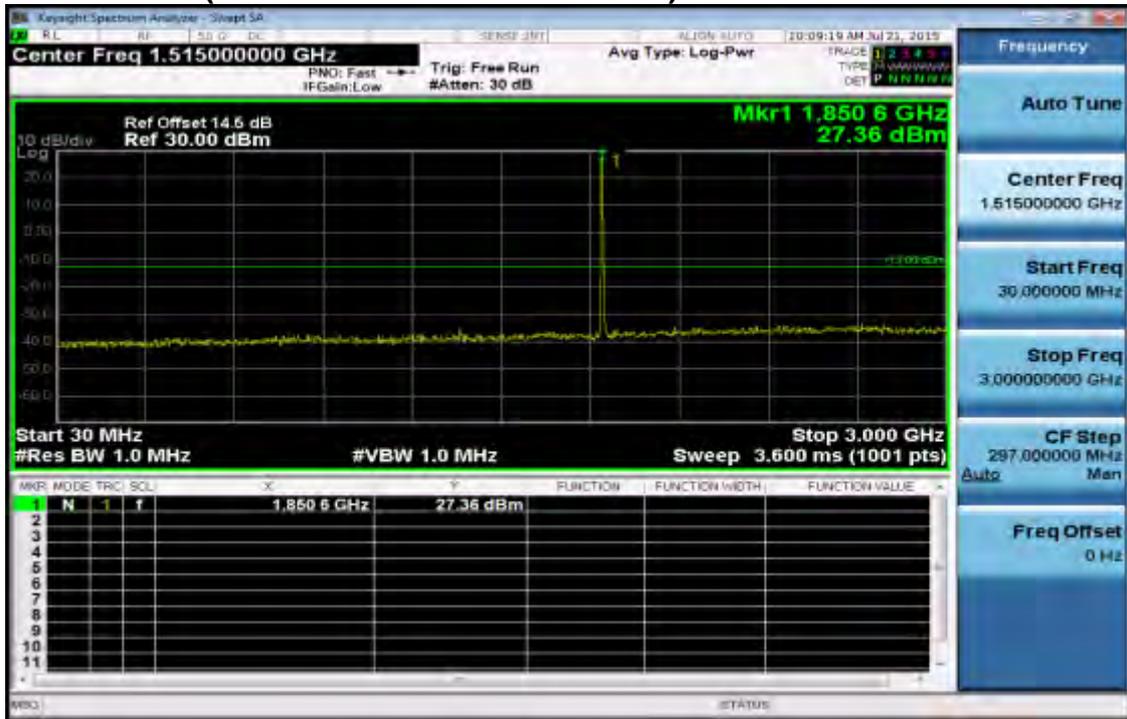


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Out of Band emission at antenna terminals–3MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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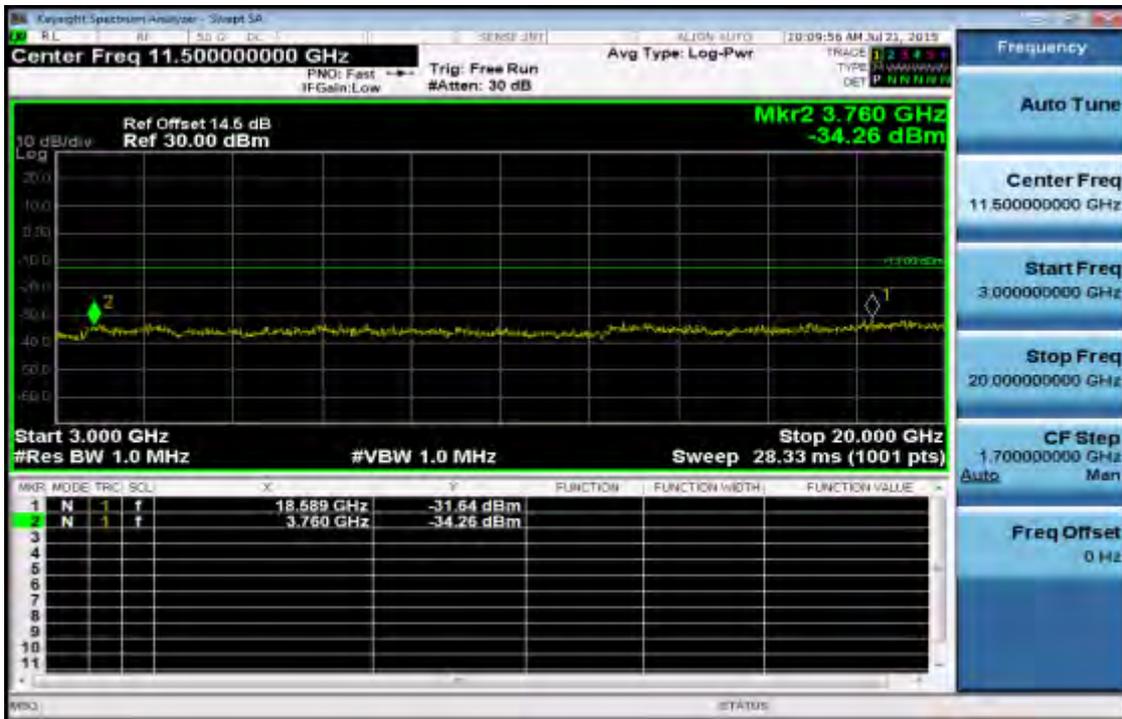
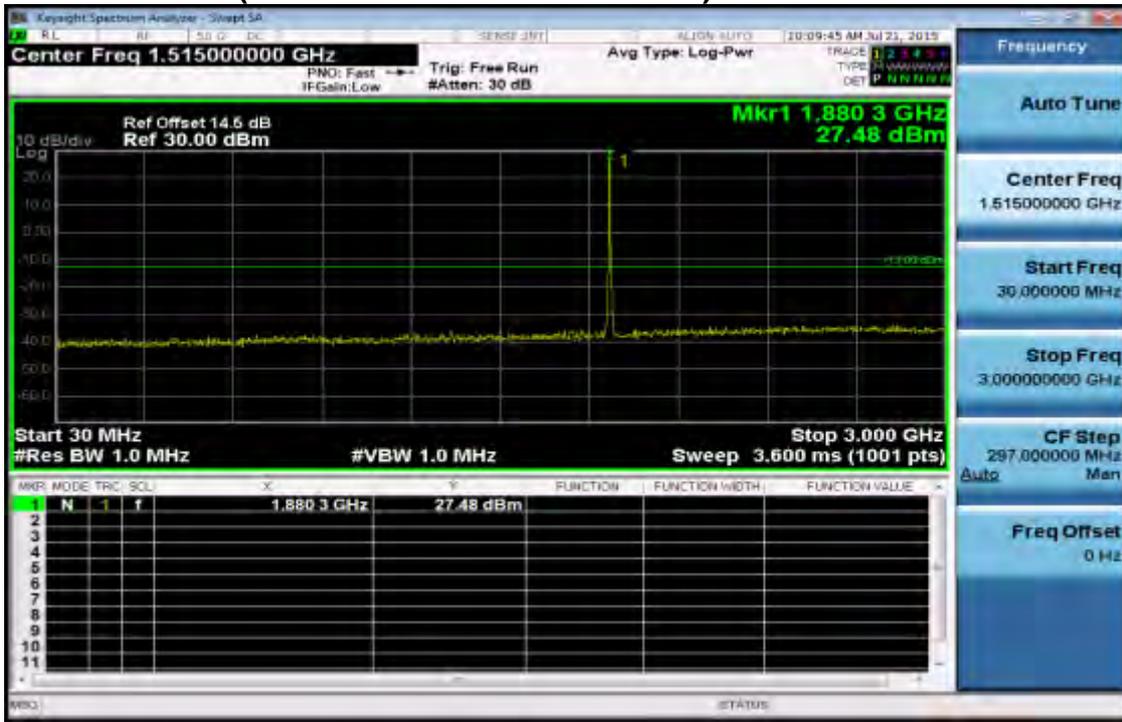
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Out of Band emission at antenna terminals –3MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Mid

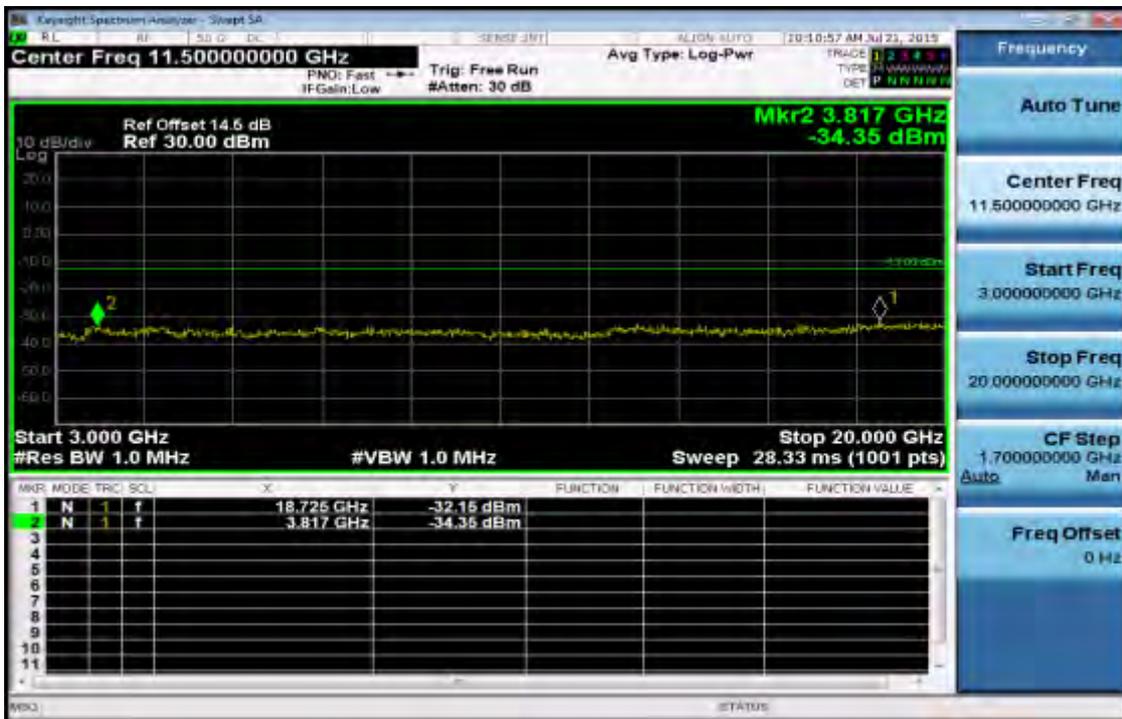
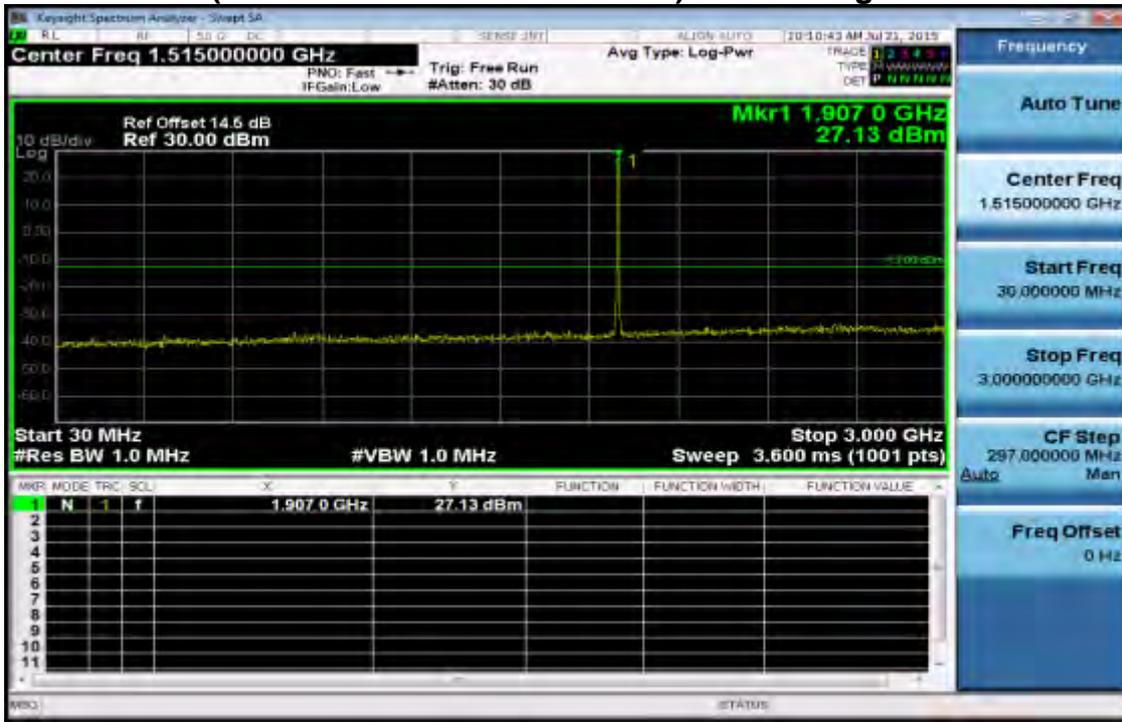


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**Out of Band emission at antenna terminals–3MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0)Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 14) Channel Highest**



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**Band edge emission at antenna terminals –3MHz BW LTE-Band 2
 (QPSK RB Number: 15 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –3MHz BW LTE-Band 2
 (QPSK RB Number: 15 Offset: 0) Channel Highest**

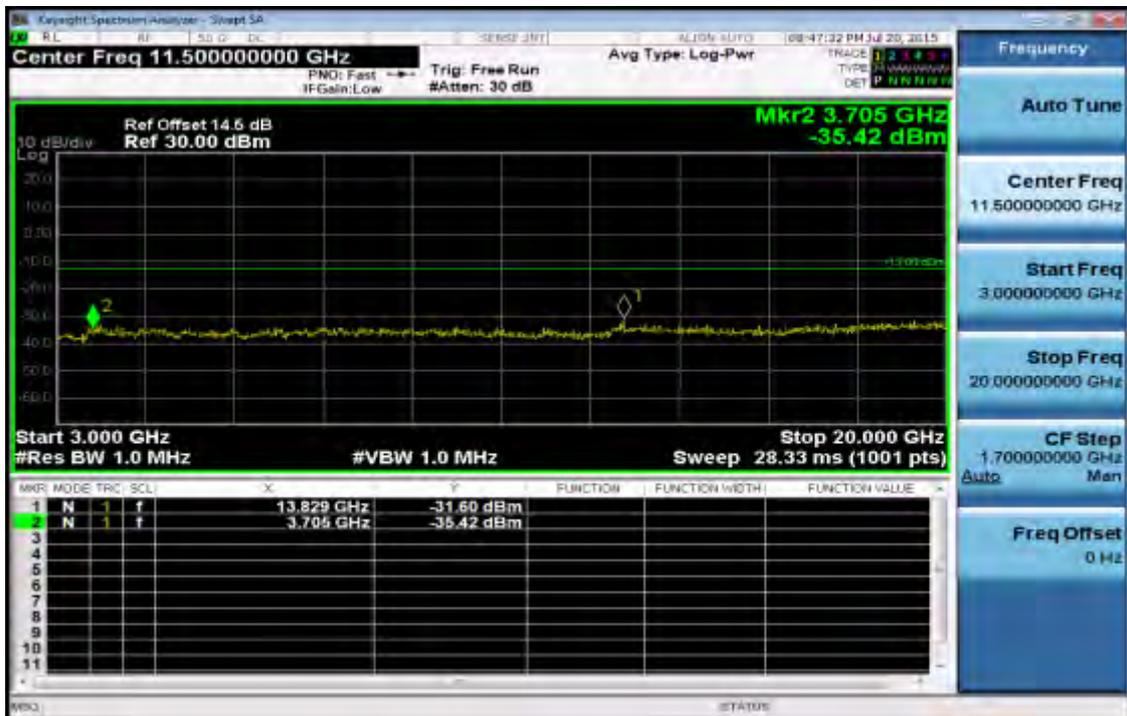
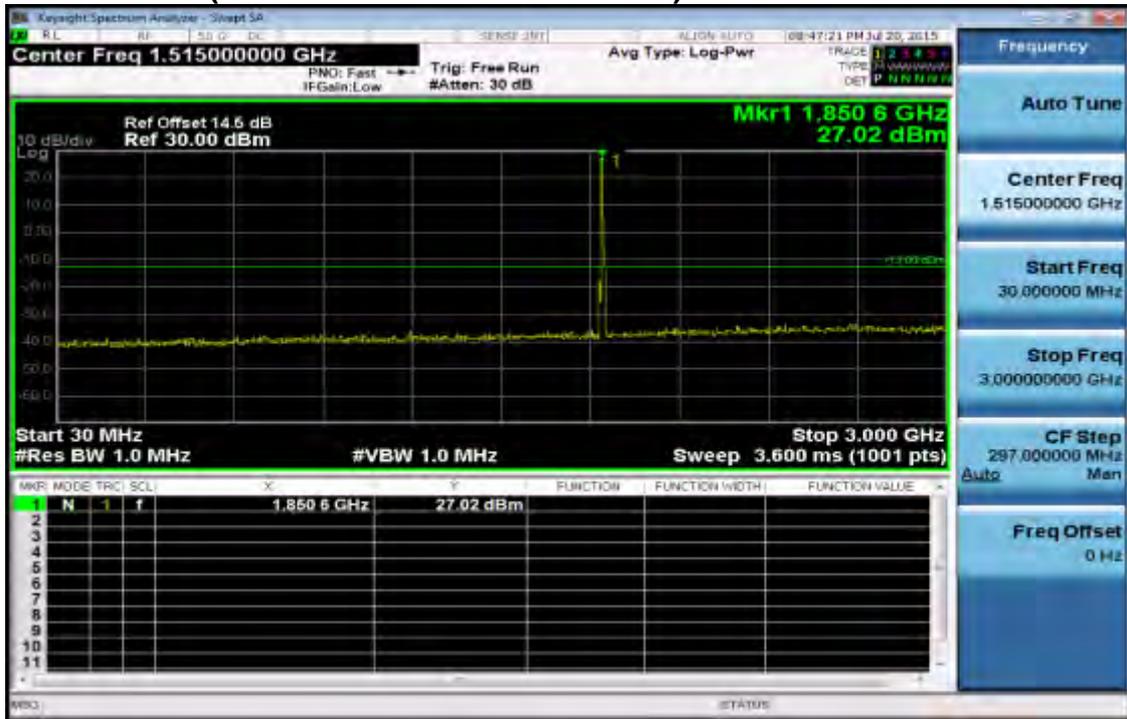


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Out of Band emission at antenna terminals–5MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0)Channel Lowest



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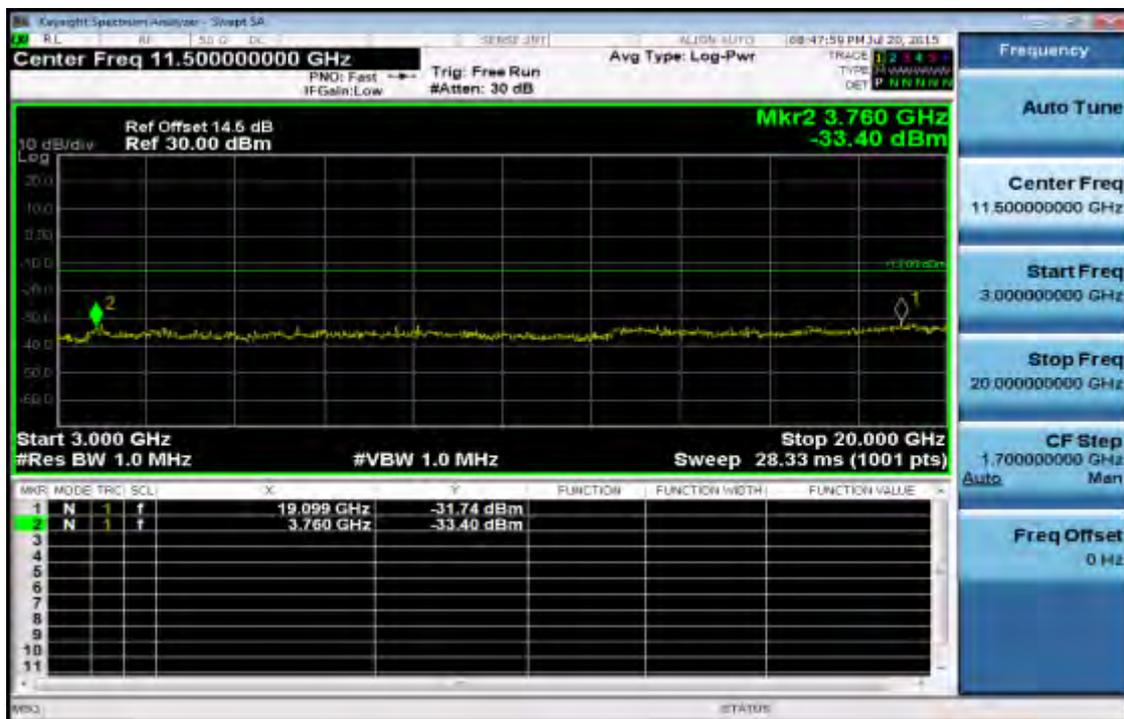
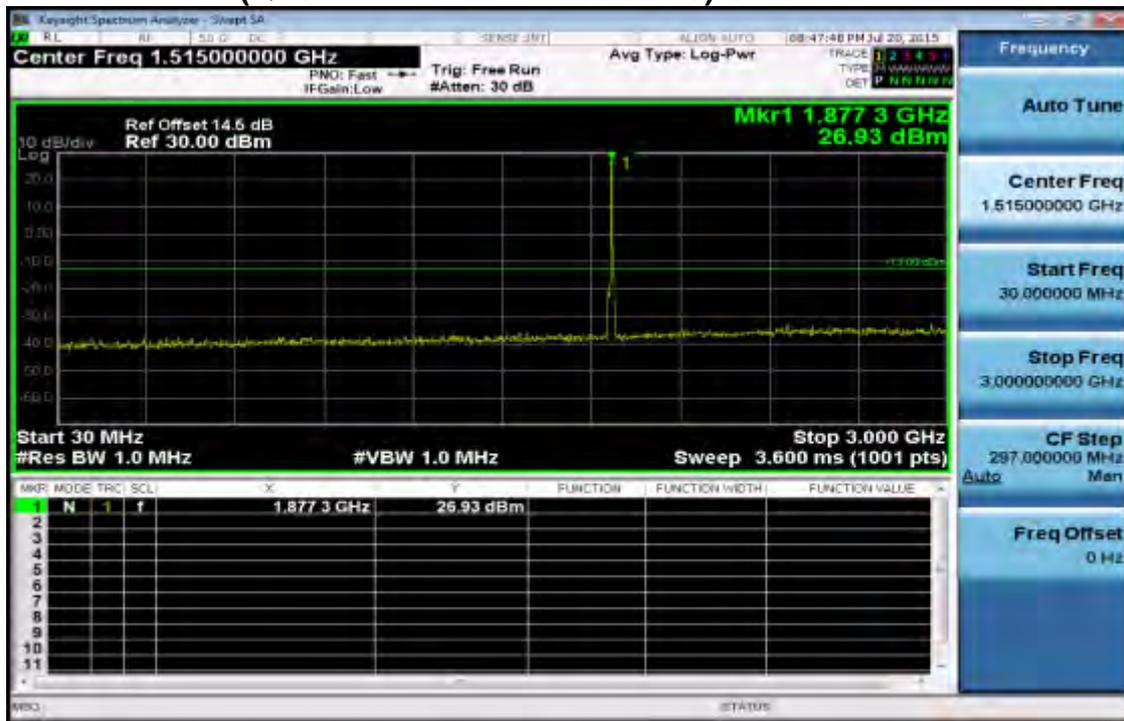
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**Out of Band emission at antenna terminals –5MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

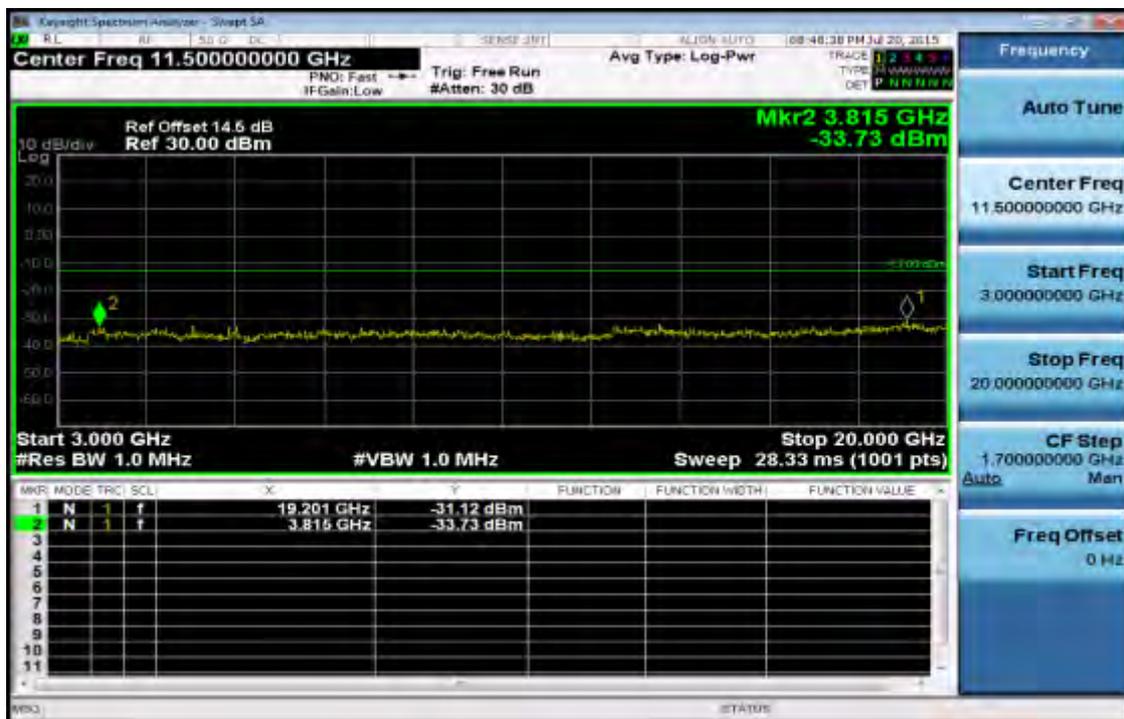
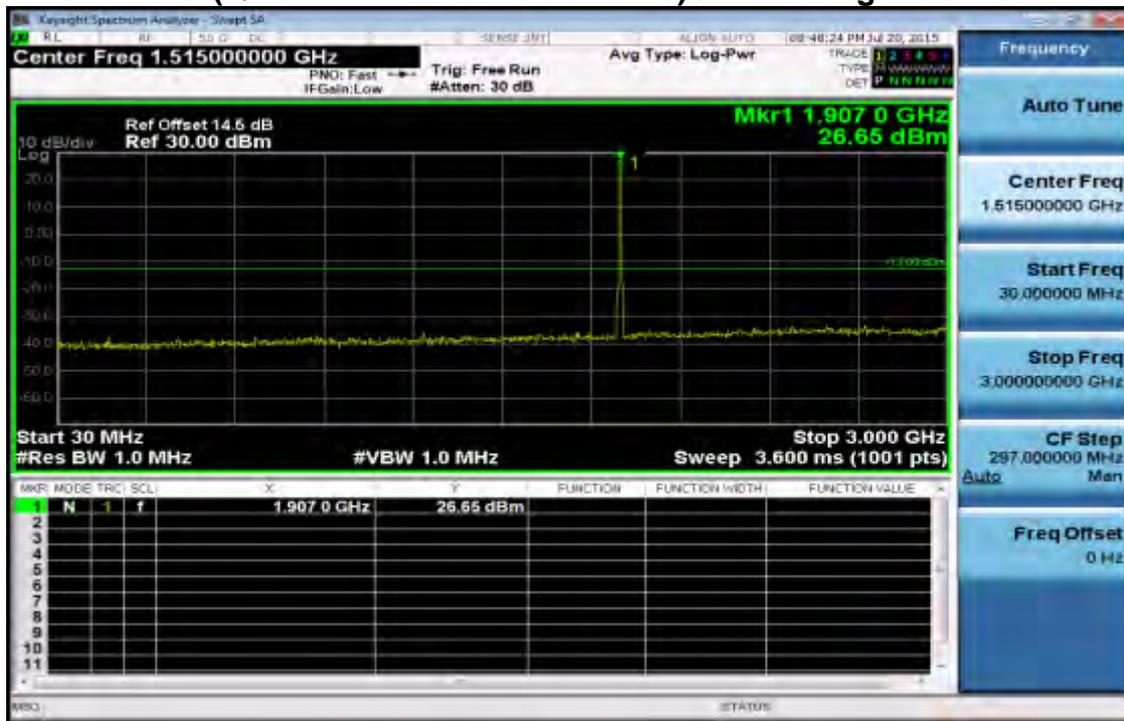


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**Out of Band emission at antenna terminals–5MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0)Channel Highest**



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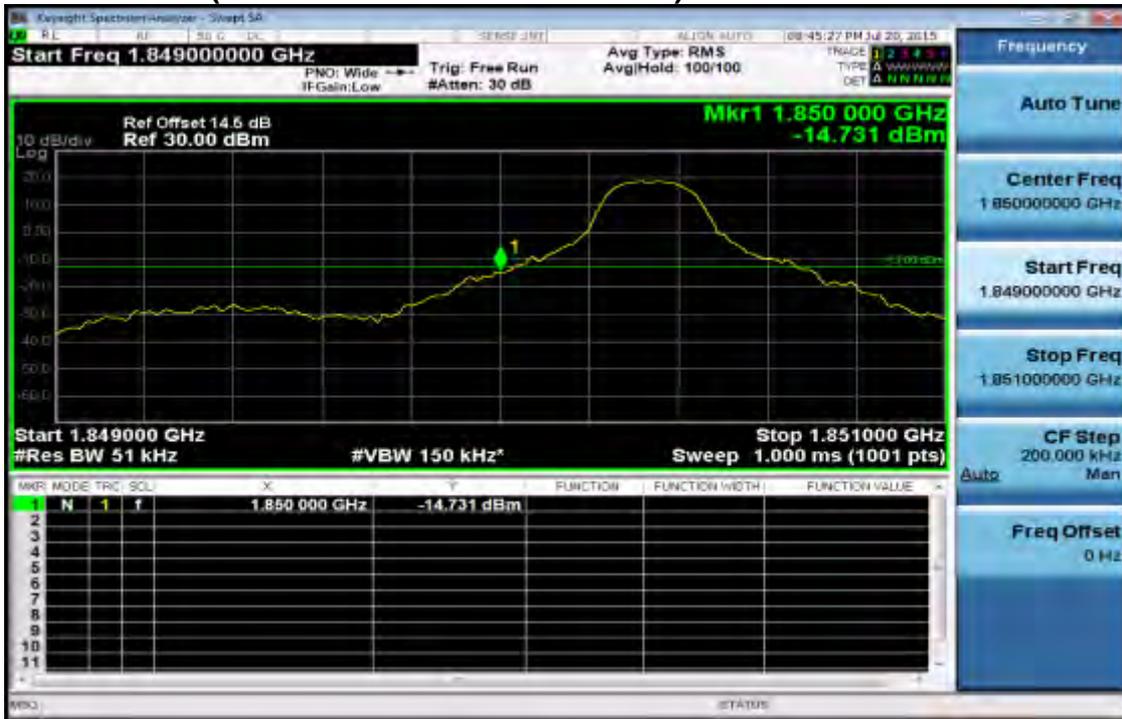
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**Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 2
(QPSK RB Number: 1 Offset: 24) Channel Highest**



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**Band edge emission at antenna terminals –5MHz BW LTE-Band 2
 (QPSK RB Number: 25 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –5MHz BW LTE-Band 2
 (QPSK RB Number: 25 Offset: 0) Channel Highest**

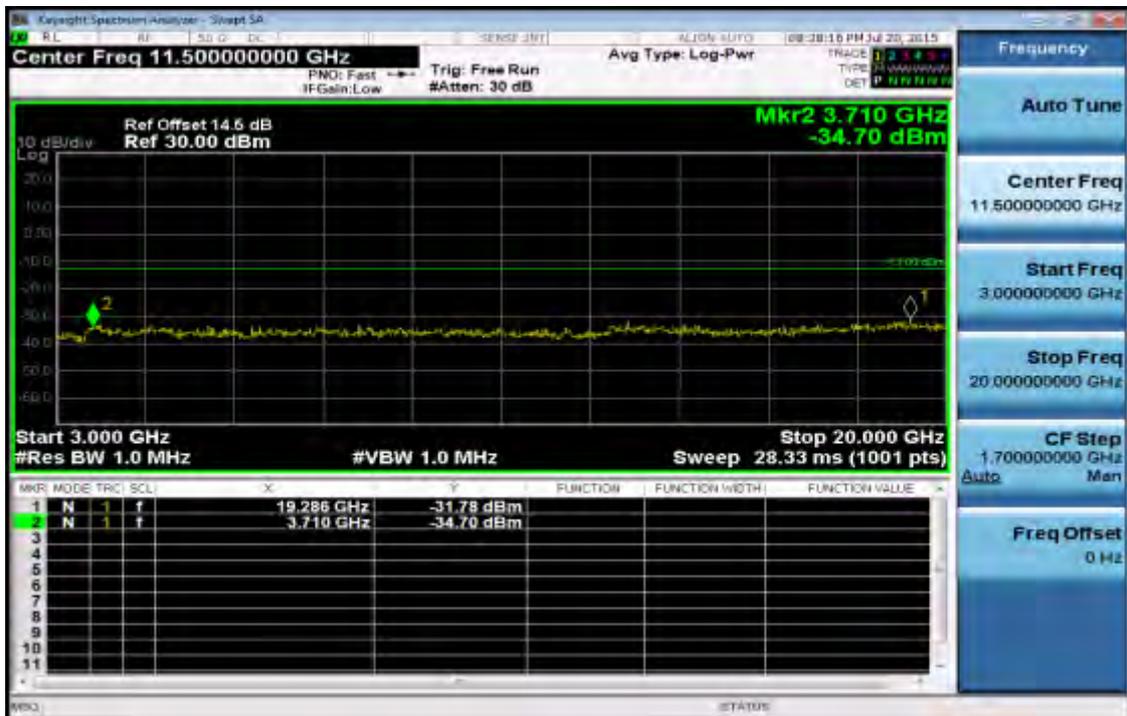
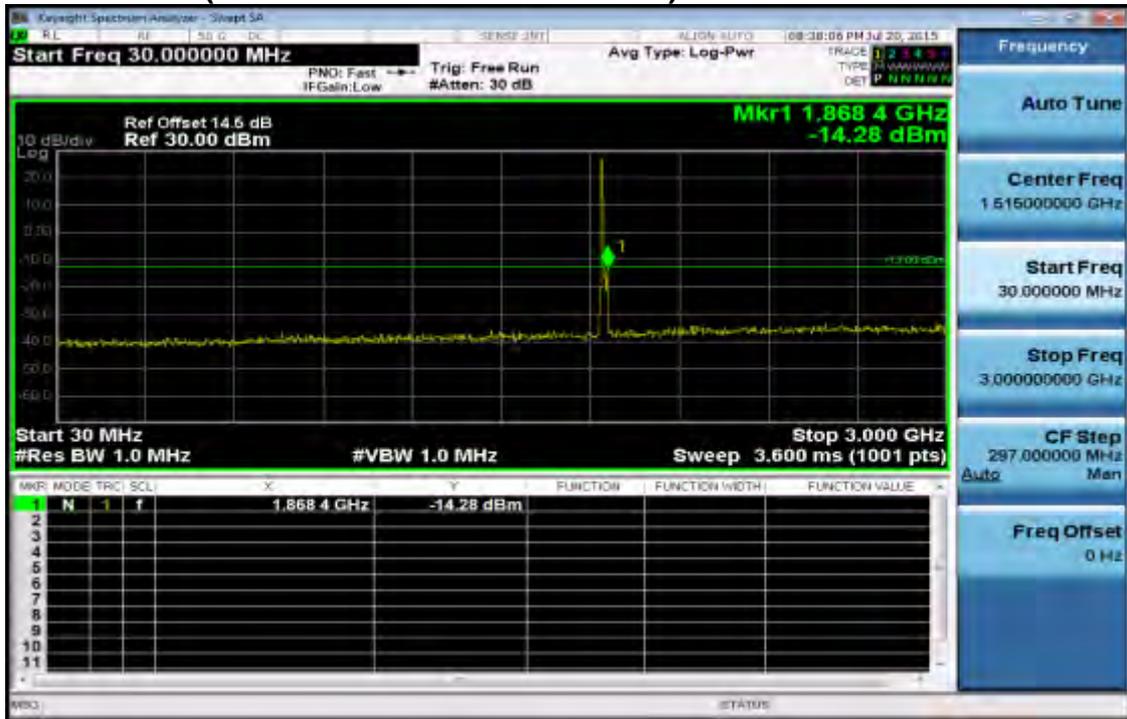


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Out of Band emission at antenna terminals–10MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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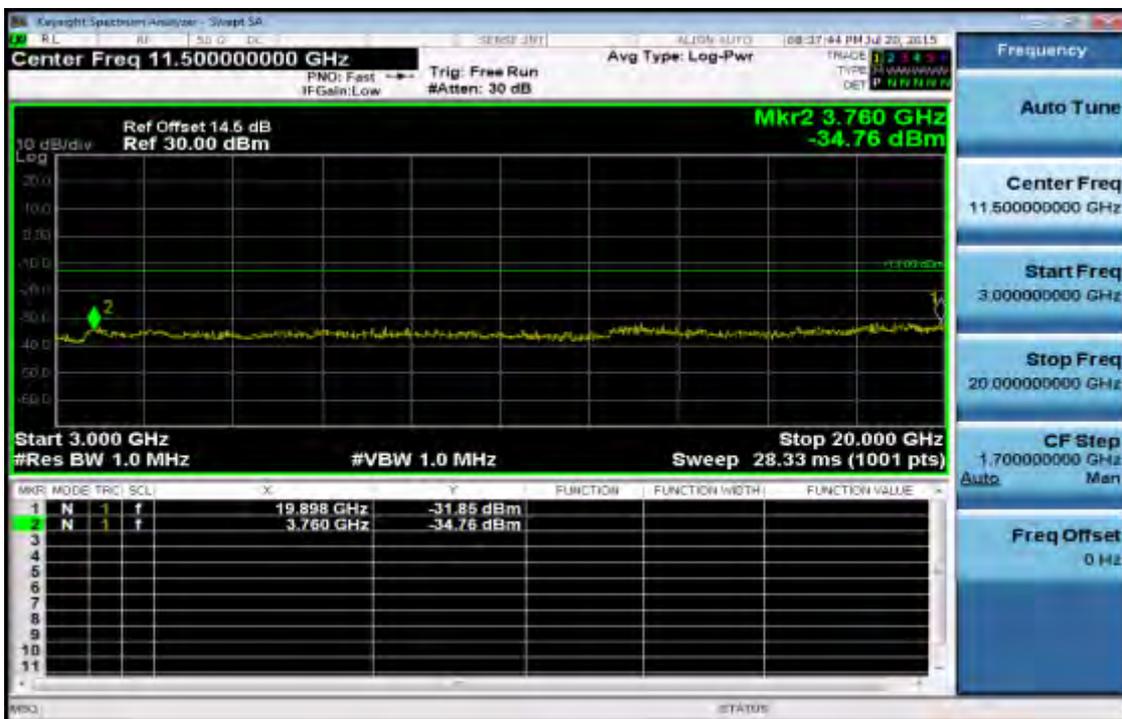
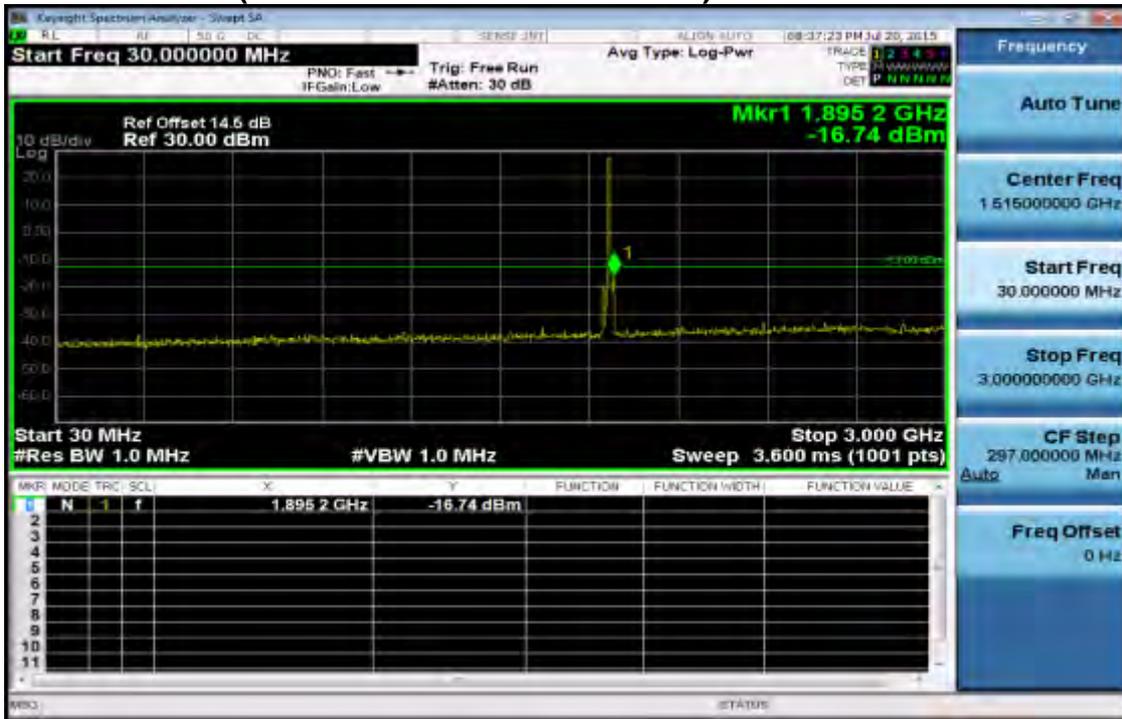
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**Out of Band emission at antenna terminals –10MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

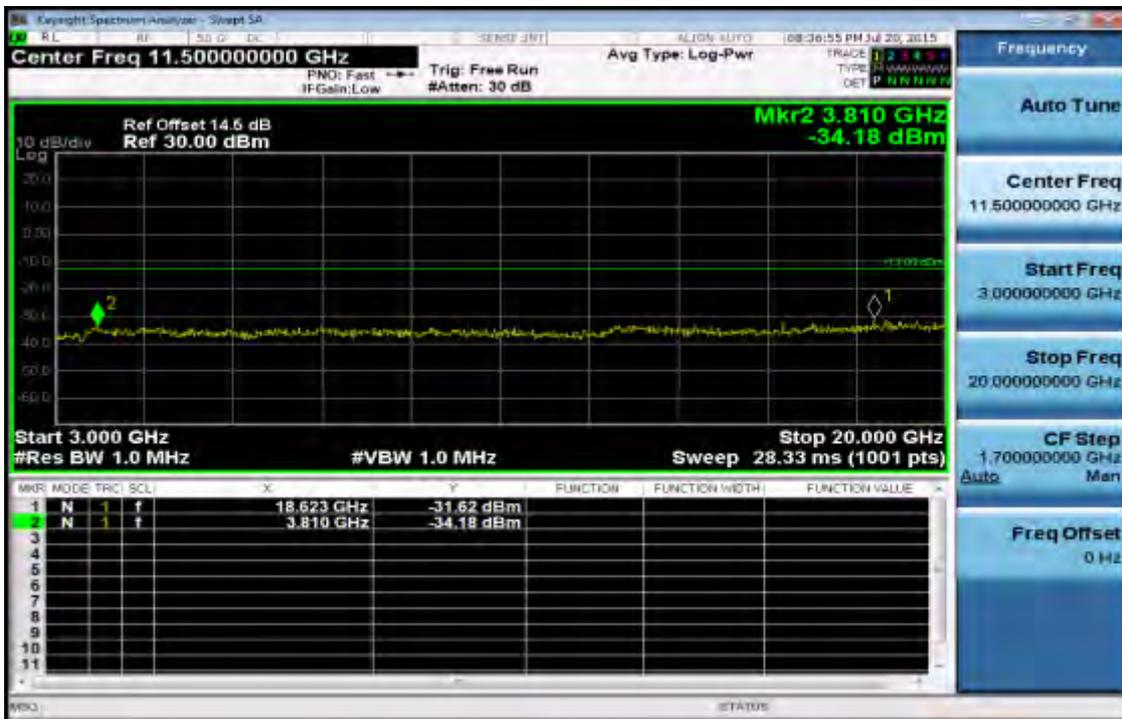
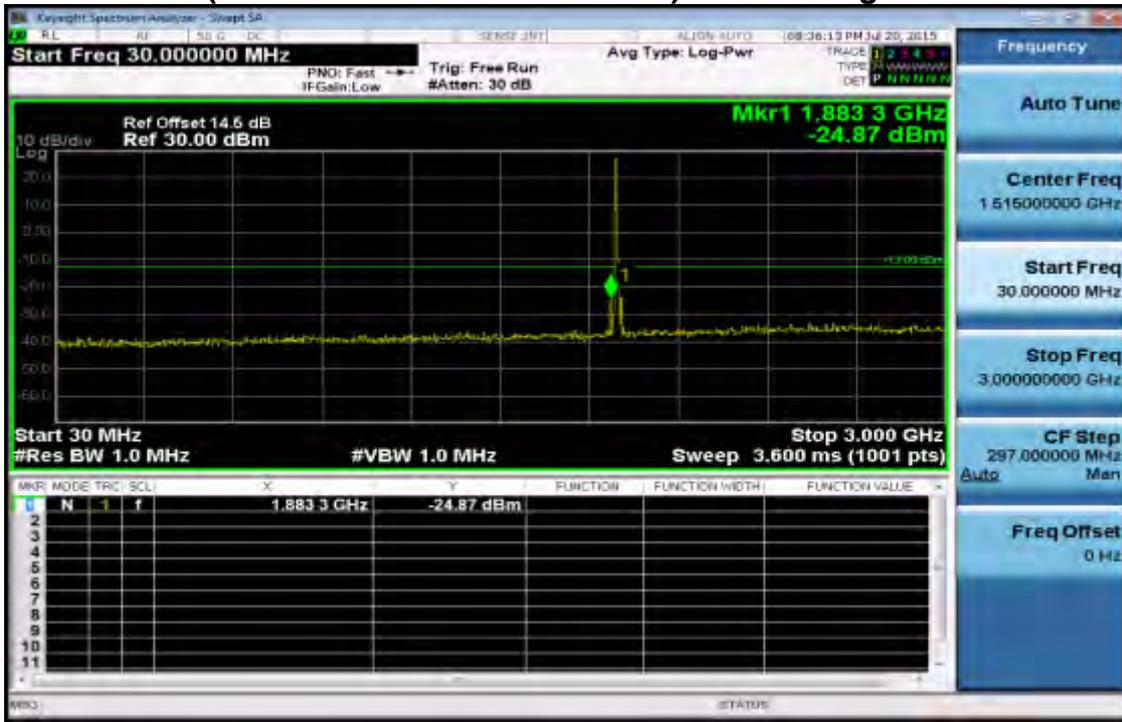


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**Out of Band emission at antenna terminals–10MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –10MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –10MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 49) Channel Highest**



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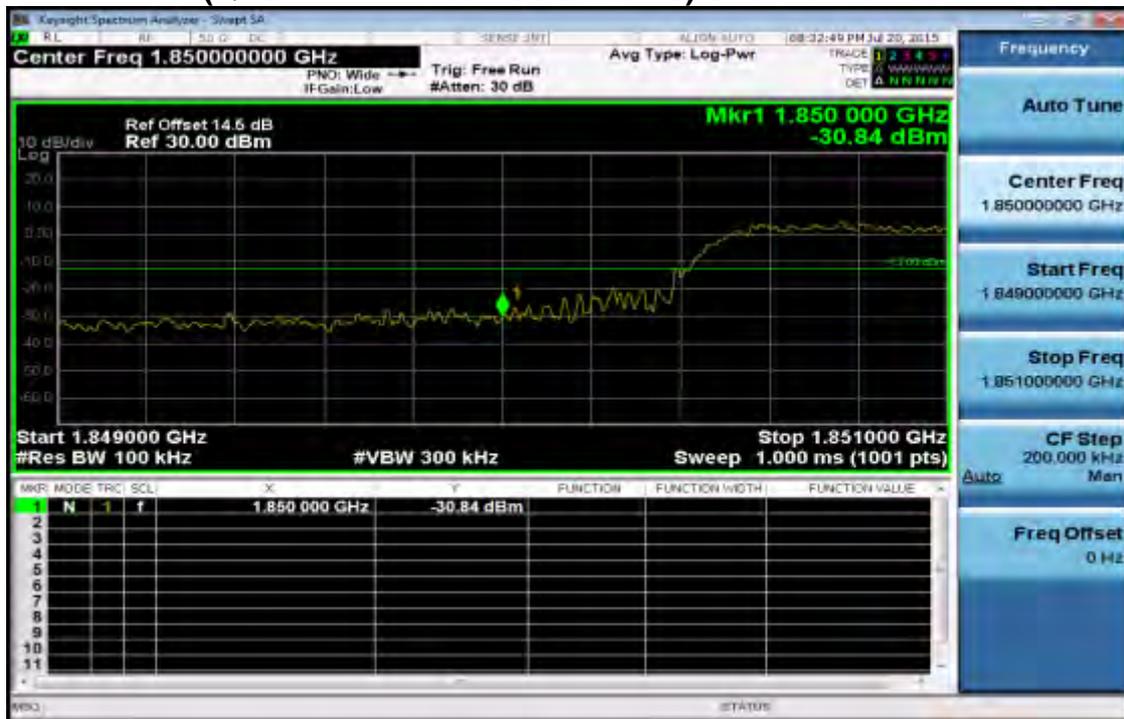
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**Band edge emission at antenna terminals –10MHz BW LTE-Band 2
 (QPSK RB Number: 50 Offset: 0) Channel Lowest**



**Figure 9-88: Band edge emission at antenna terminals –10MHz BW LTE-Band 2
 (QPSK RB Number: 50 Offset: 0) Channel Highest**

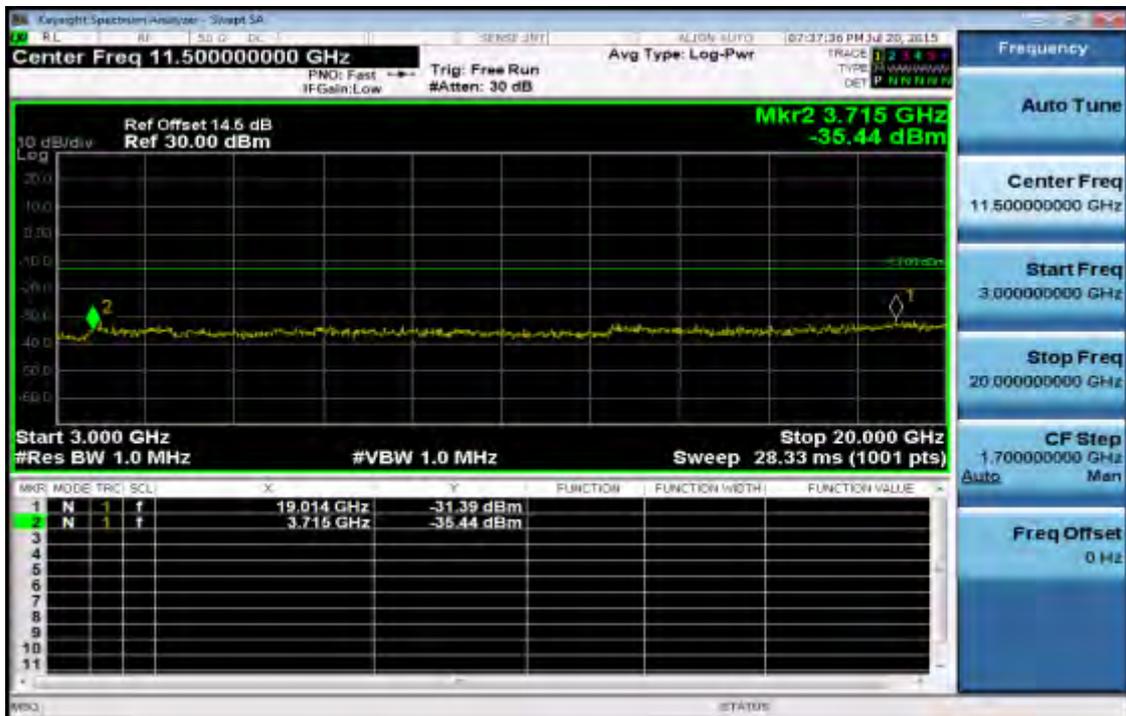
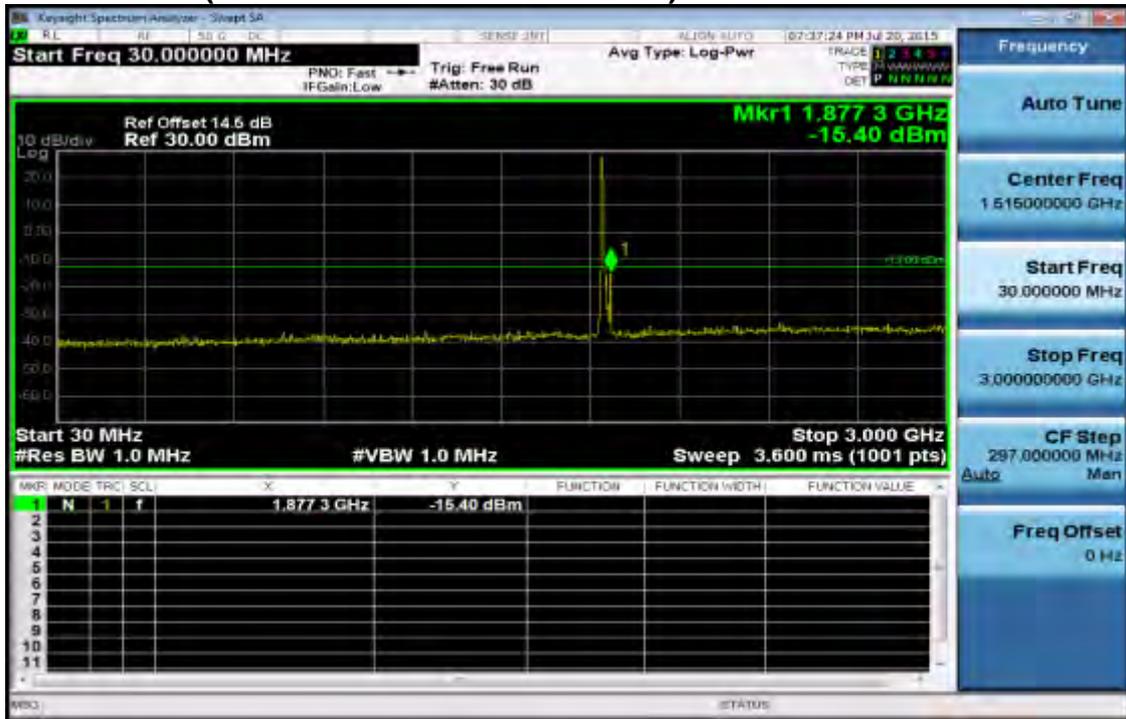


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Out of Band emission at antenna terminals–15MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest



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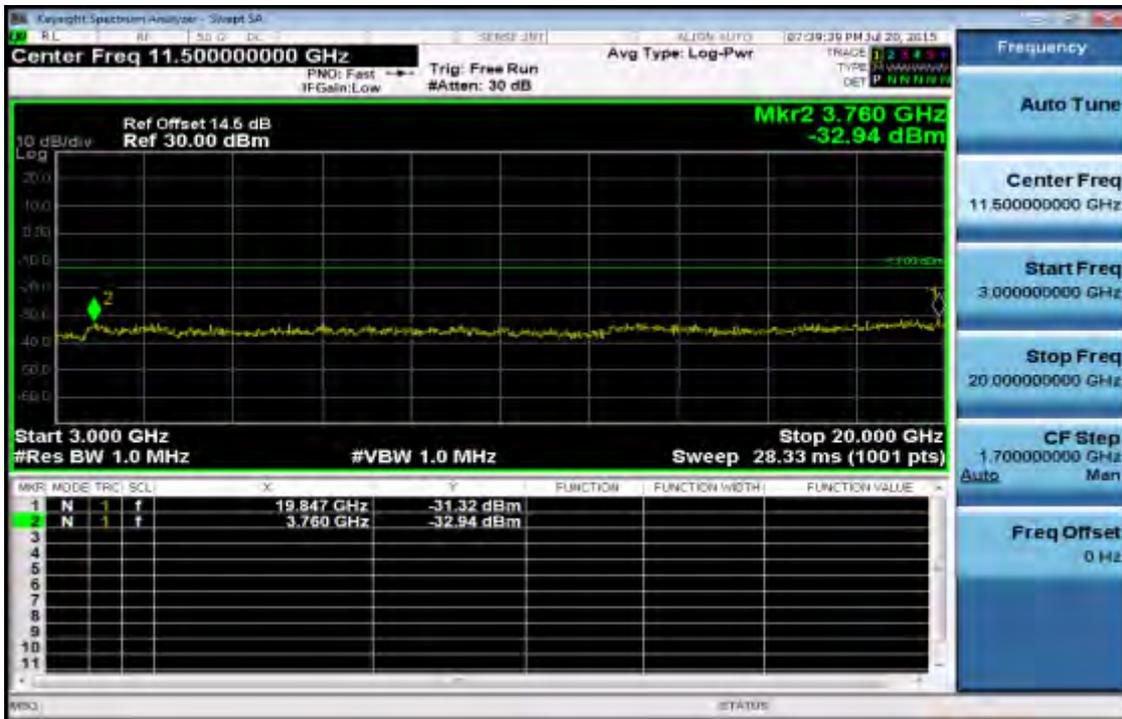
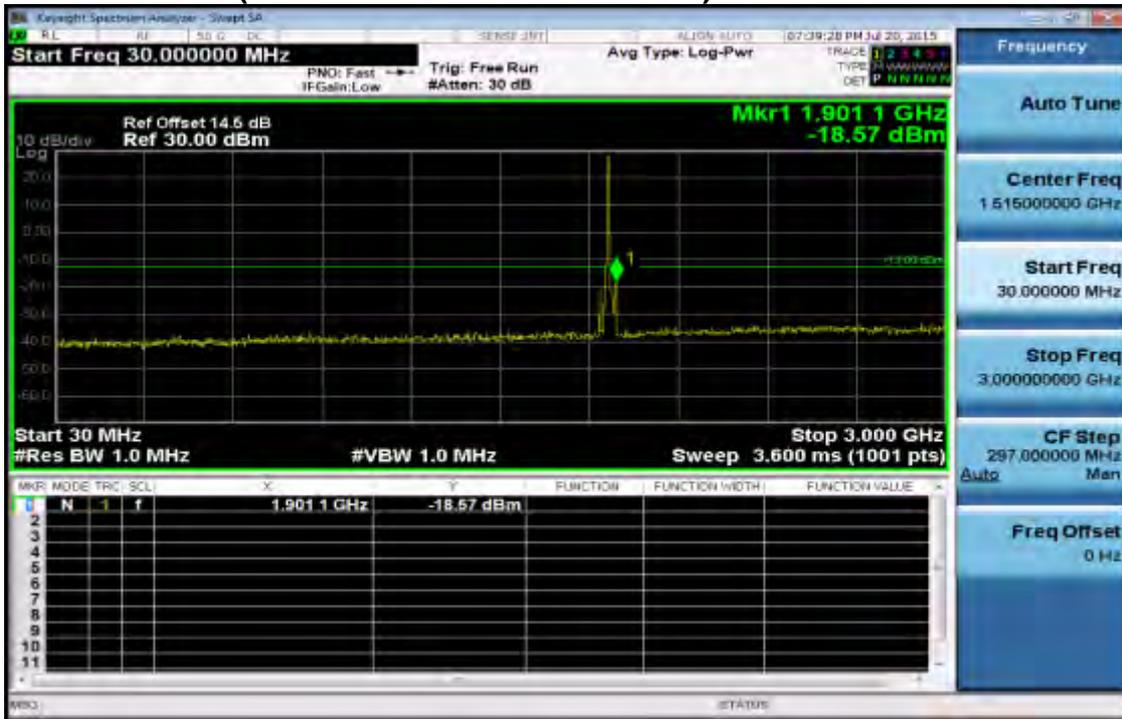
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**Out of Band emission at antenna terminals –15MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

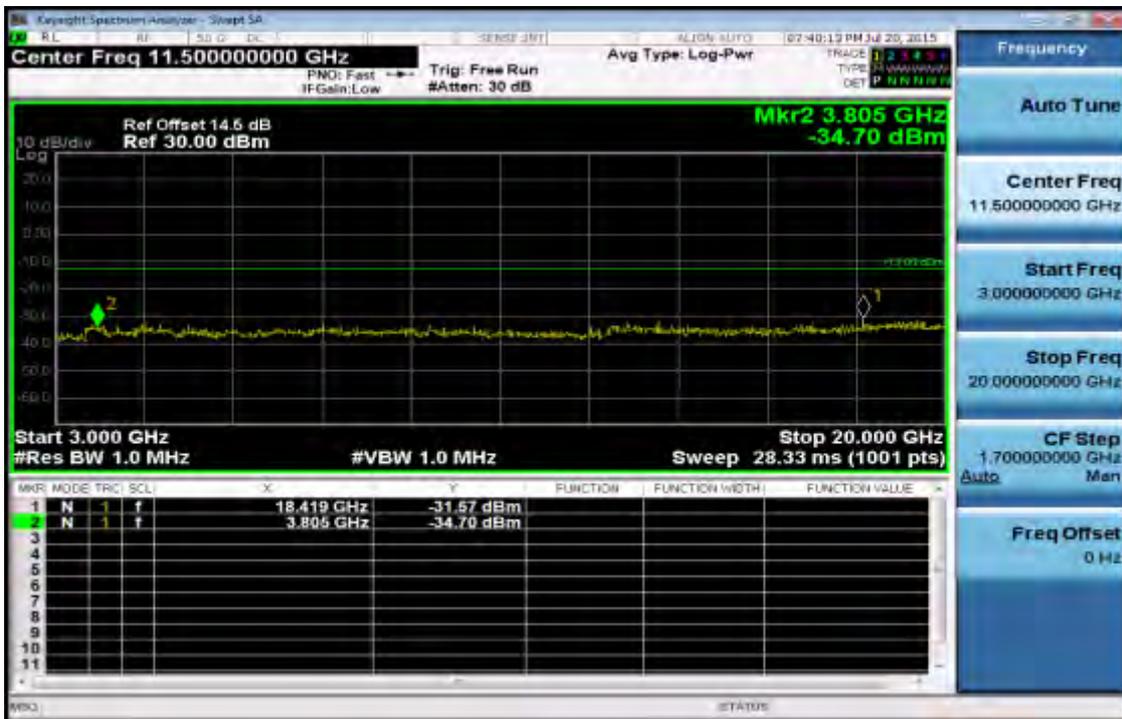
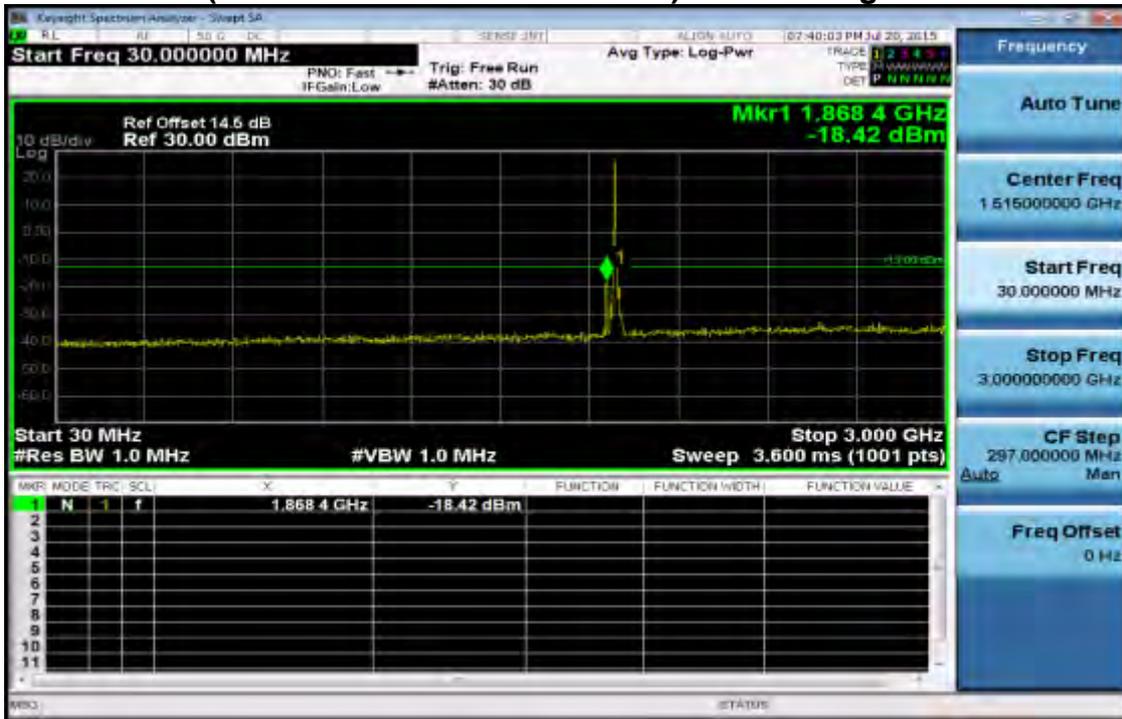


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**Out of Band emission at antenna terminals–15MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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**Band edge emission at antenna terminals –15MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –15MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 74) Channel Highest**

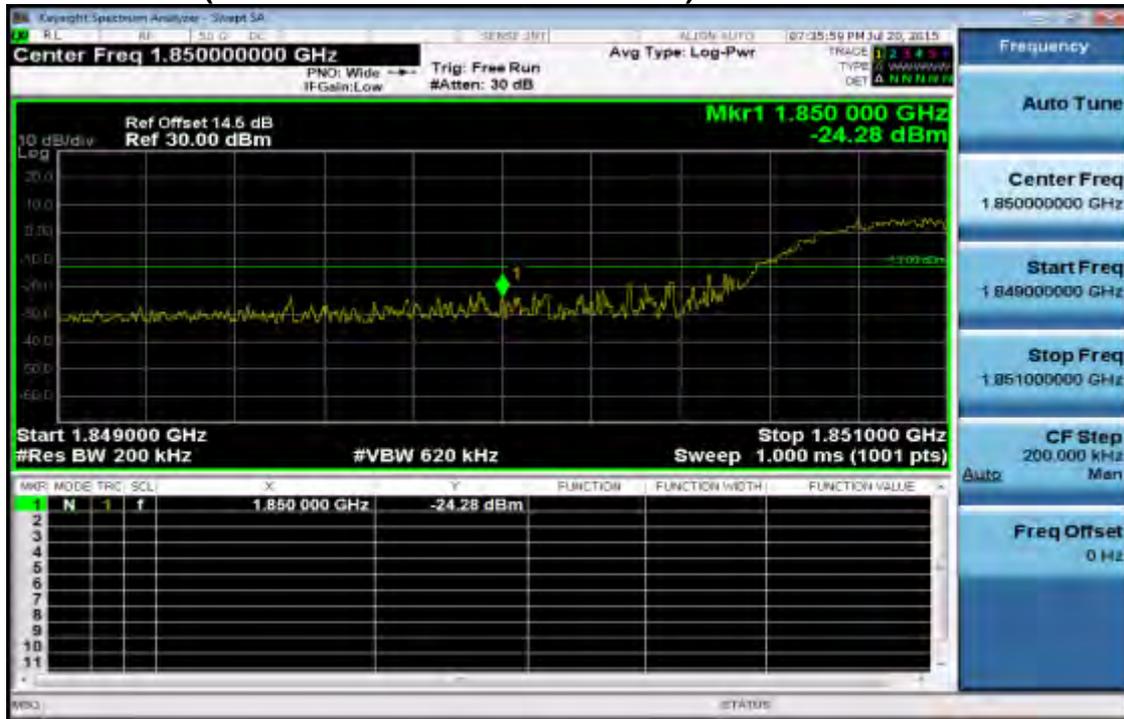


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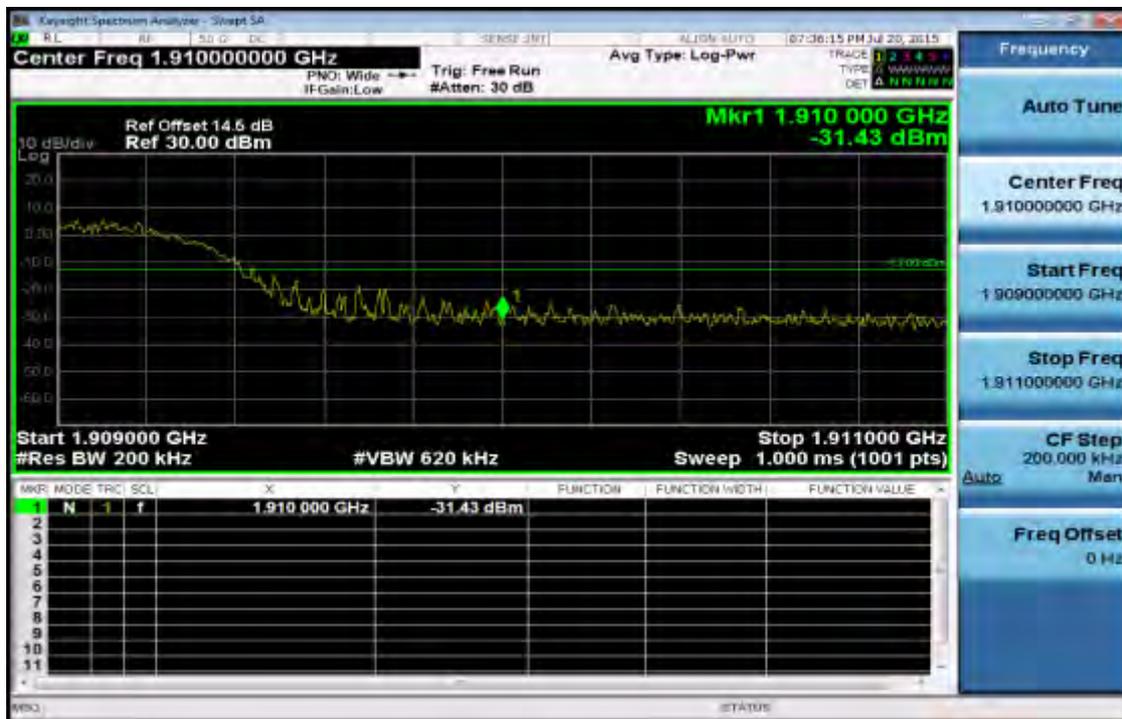
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**Band edge emission at antenna terminals –15MHz BW LTE-Band 2
 (QPSK RB Number: 75 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –15MHz BW LTE-Band 2
 (QPSK RB Number: 75 Offset: 0) Channel Highest**



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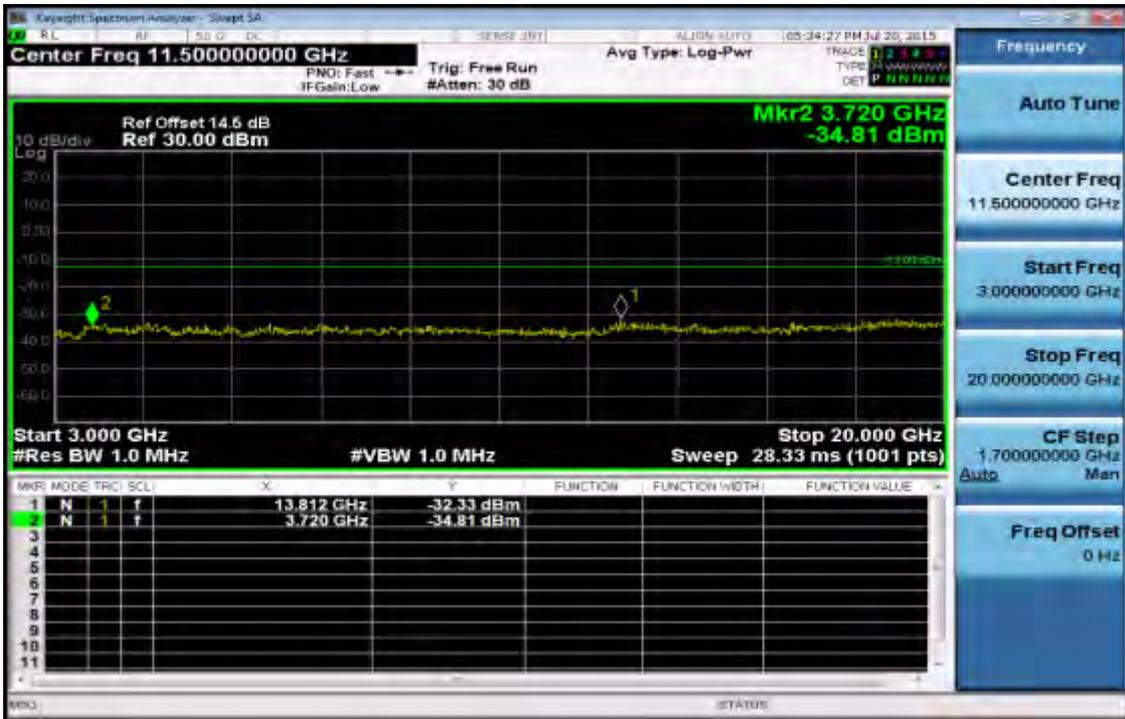
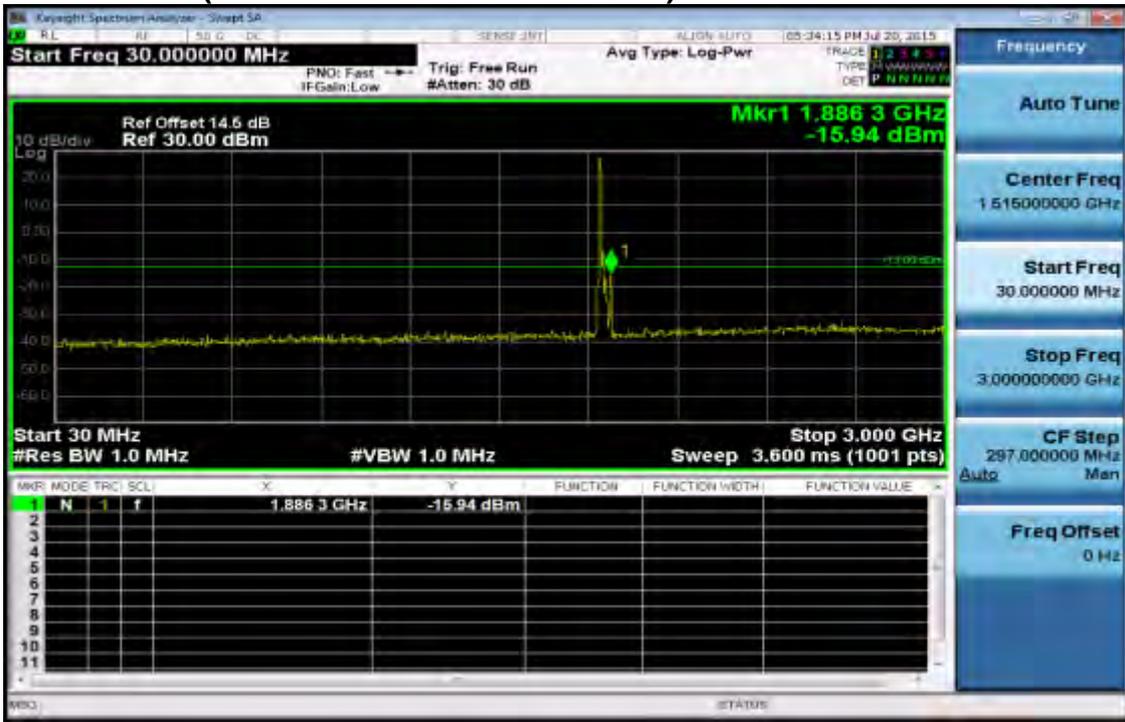
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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



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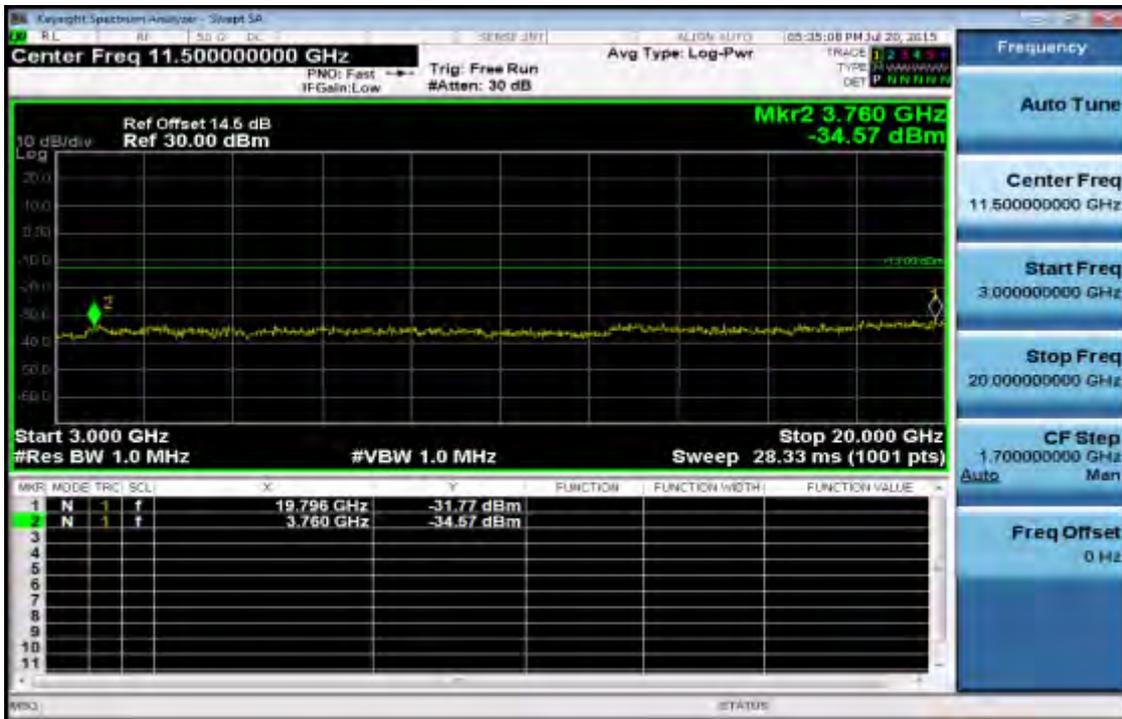
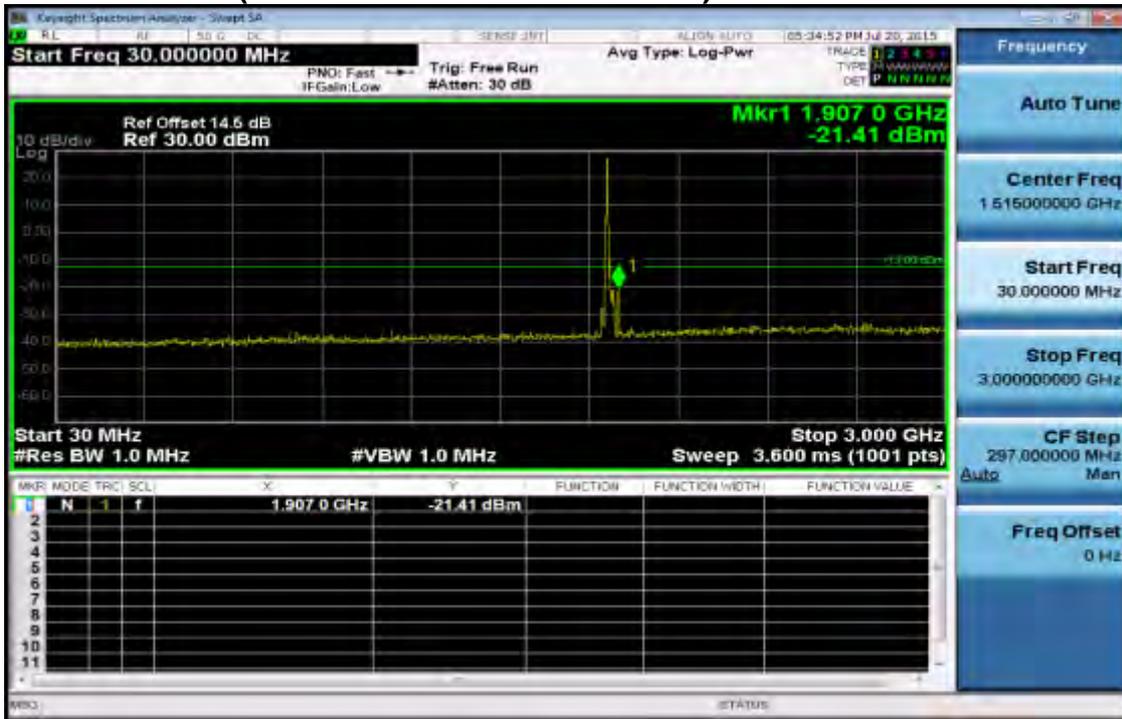
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**Out of Band emission at antenna terminals –20MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Mid**

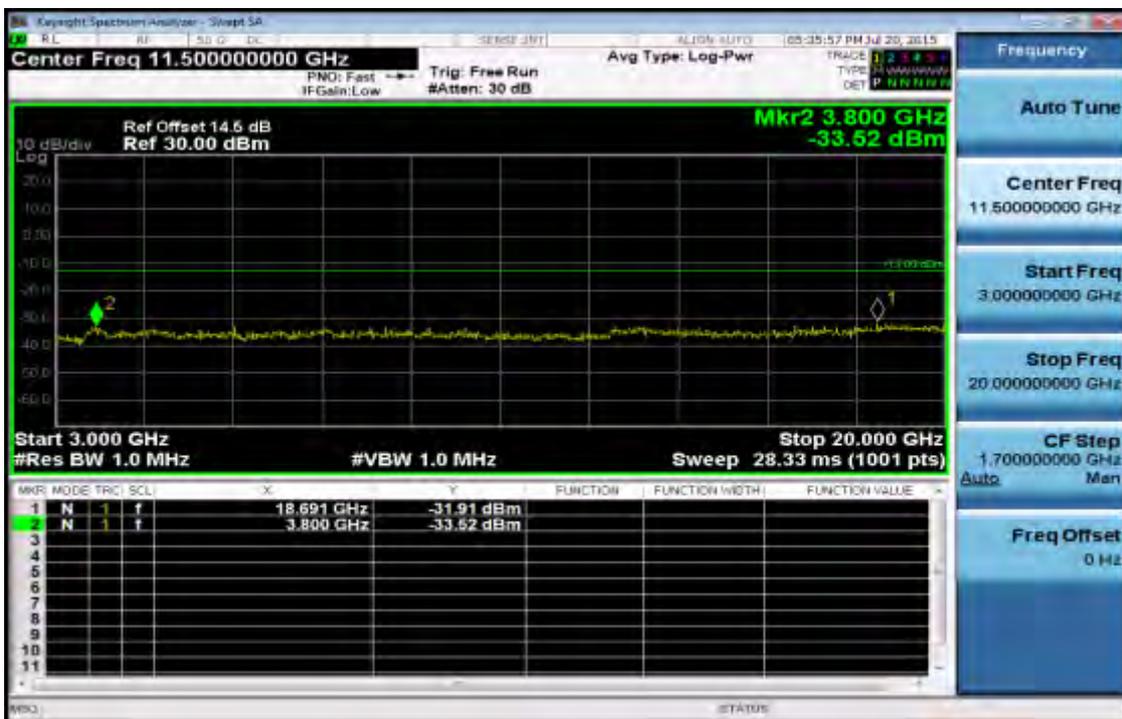
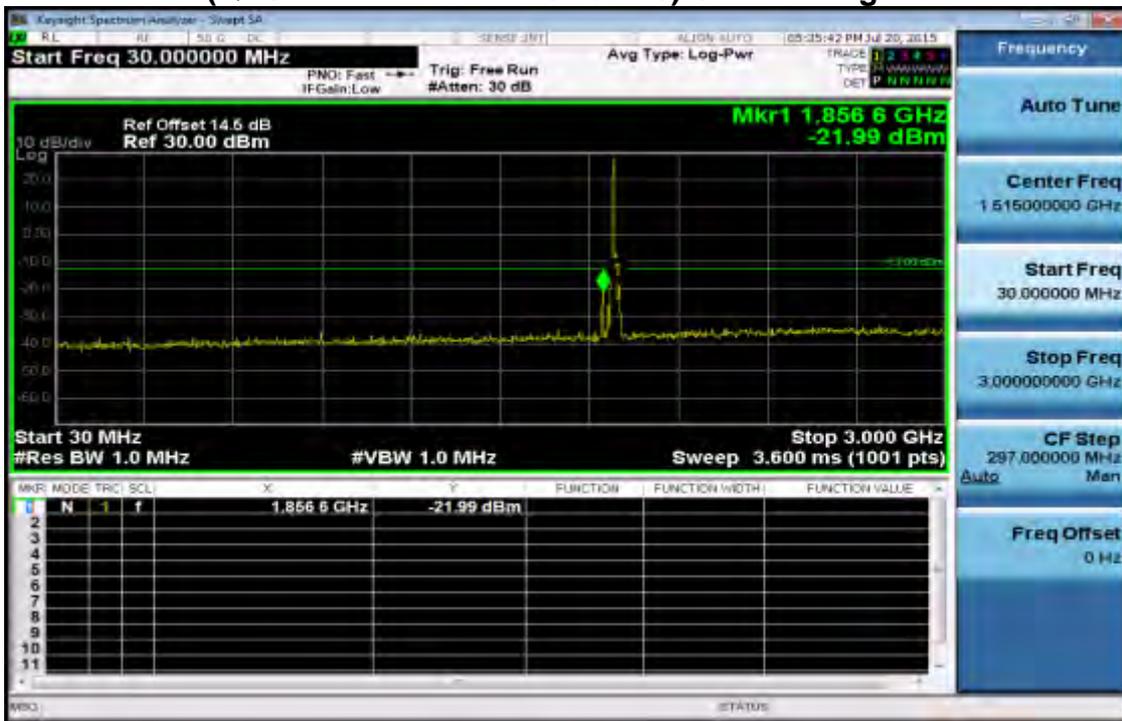


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**Out of Band emission at antenna terminals–20MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Highest**



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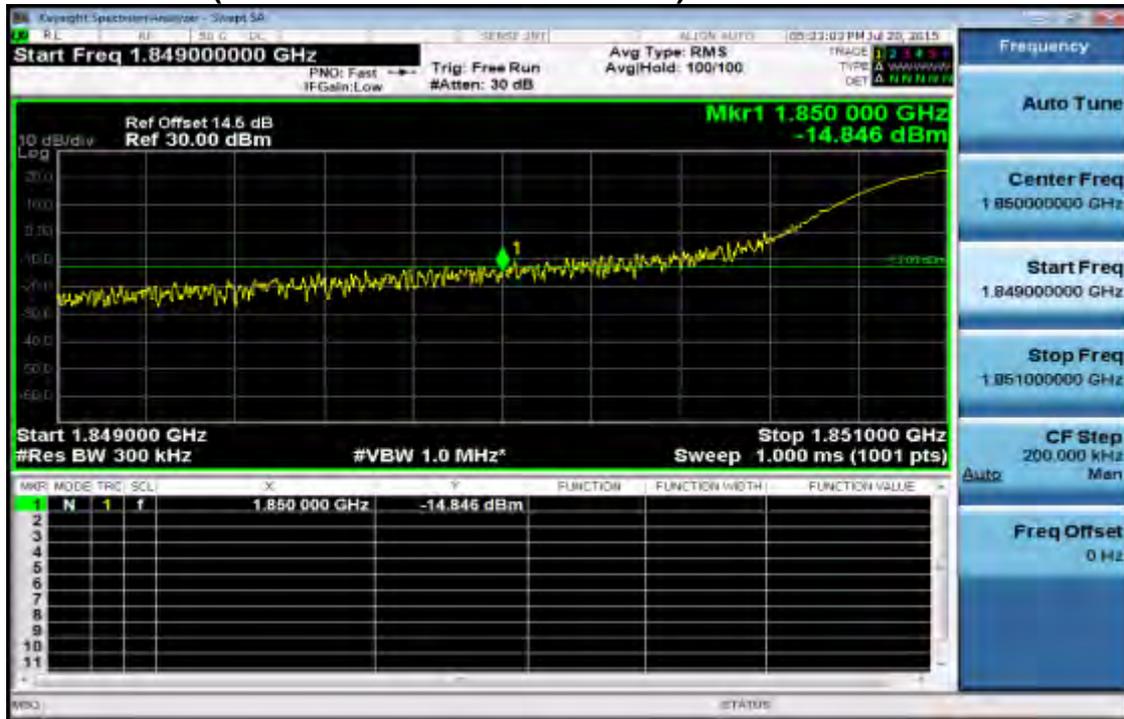
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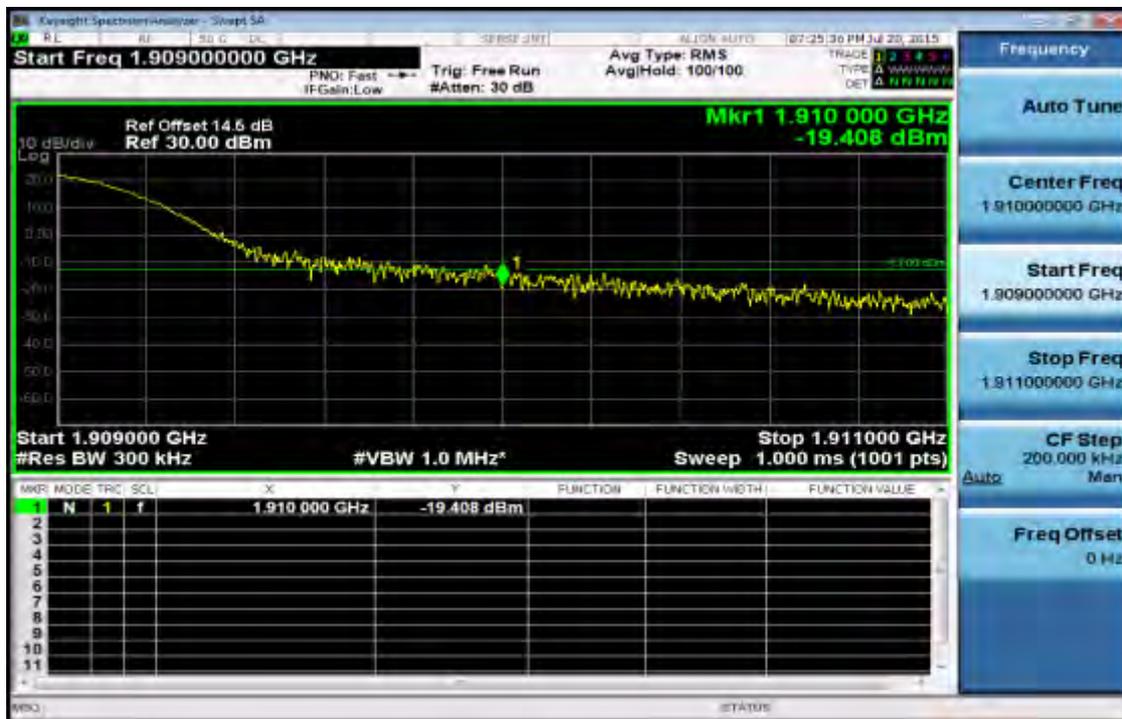
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –20MHz BW LTE-Band 2
 (QPSK RB Number: 1 Offset: 99) Channel Highest**



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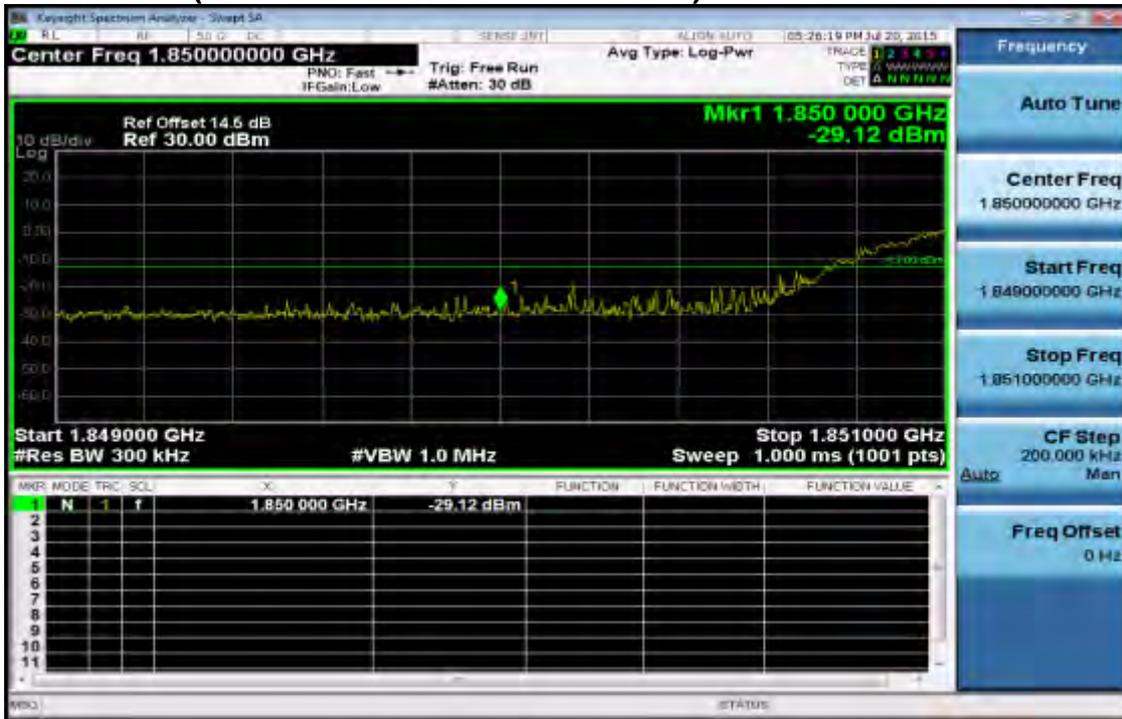
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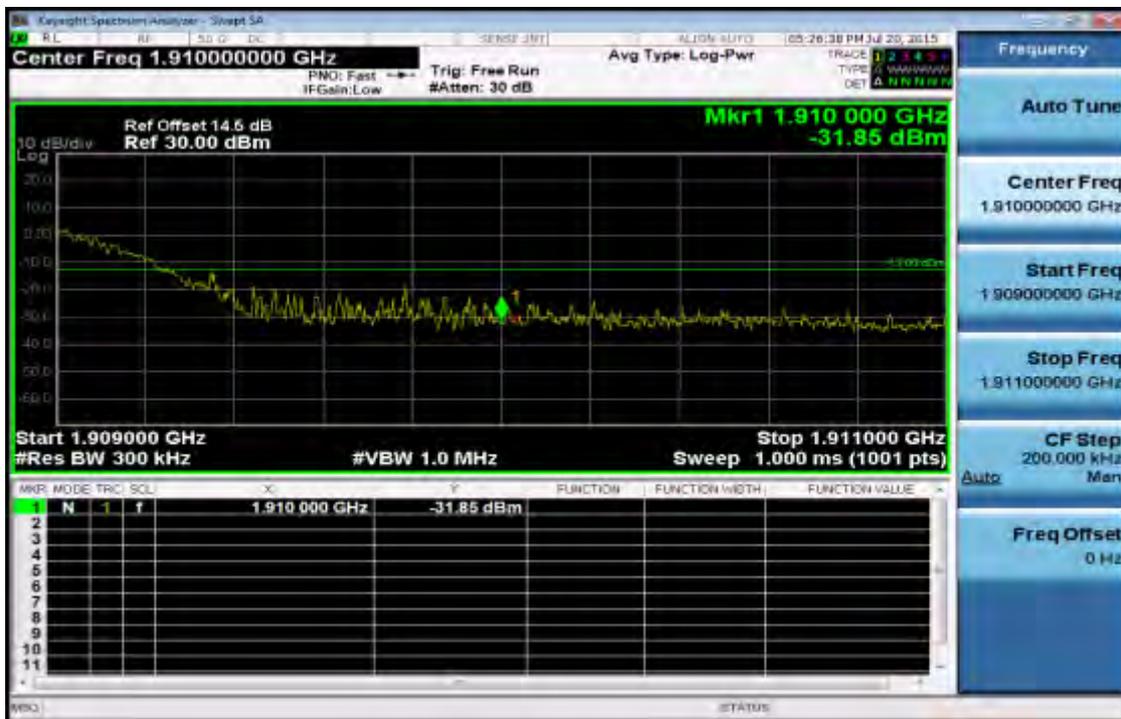
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**Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 100 Offset: 0) Channel Lowest**



**Band edge emission at antenna terminals –20MHz BW LTE-Band 2
(QPSK RB Number: 100 Offset: 0) Channel Highest**



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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