

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO

FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART

H, M & SUBPART L and PART 90 SUBPART S REQUIREMENT

OF

Product Name: LTE Tablet PC

Brand Name: Sprint

Model No.: AQT82

Model Difference: N/A

FCC ID: T5UAQT82

Report No.: E2/2017/20052

Issue Date: Mar. 22, 2017

FCC Rule Part: 2 , 22H & 24E & 27H, M, L & 90S

Prepared for: Quanta Micosystems, Inc
188 Wenhwa 2nd Rd., Guishan Dist., Tao Yuan
City, Taiwan, 33377

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Quanta Microsystems, Inc
188 Wenhwa 2nd Rd., Guishan Dist., Tao Yuan City, Taiwan,
33377

Product Name: LTE Tablet PC

Brand Name: Sprint

Model No.: AQT82

Model Difference: N/A

FCC ID: T5UAQT82

File Number: E2/2017/20052

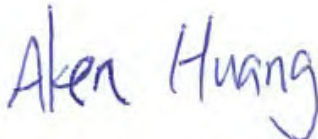
Date of test: Feb. 20, 2017 ~ Mar. 16, 2017

Date of EUT Received: Feb. 20, 2017

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-D-2010 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

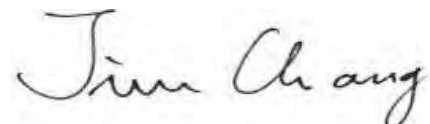
The test results of this report relate only to the tested sample identified in this report.

Test By:  **Date:** Mar. 22, 2017

Aken Huang / Engineer

Prepared By:  **Date:** Mar. 22, 2017

Karen Huang / Clerk

Approved By:  **Date:** Mar. 22, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/20052	Rev.00	Initial creation of document	Mar. 22, 2017

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Contents

1. GENERAL PRODUCT INFORMATION	5
2. SYSTEM TEST CONFIGURATION	14
3. SUMMARY OF TEST RESULTS	19
4. DESCRIPTION OF TEST MODES	20
5. MEASUREMENT UNCERTAINTY	29
6. RF CONDUCTED OUTPUT POWER MEASUREMENT	30
7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT	39
8. OCCUPIED BANDWIDTH MEASUREMENT	82
9. OUT OF BAND EMISSION AT ANTENNA TERMINALS	130
10. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	210
11. FREQUENCY STABILITY MEASUREMENT	262
12. PEAK TO AVERAGE RATIO	272

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	LTE Tablet PC	
Brand Name:	Sprint	
Model No.:	AQT82	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
USB Cable:	Model No.: N/A, Supplier: N/A	
Power Supply:	3.8Vdc from Rechargeable Li-ion Battery or 5V from AC/DC Power Adapter	
	Battery:	Model No.: NKS, Supplier: Ningbo Veken Battery Co., LTD.
	Adapter:	Model No.: NSS050200B, Supplier: TPT

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LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	LTE-Band 2 (1.4MHz)	1850.7MHz– 1909.3MHz	23dBm
	LTE-Band 2 (3MHz)	1851.5MHz – 1908.5MHz	23dBm
	LTE-Band 2 (5MHz)	1852.5MHz – 1907.5MHz	23dBm
	LTE-Band 2 (10MHz)	1855.0MHz – 1905.0MHz	23dBm
	LTE-Band 2 (15MHz)	1857.5MHz – 1902.5MHz	23dBm
	LTE-Band 2 (20MHz)	1860.0MHz – 1900.0MHz	23dBm
	LTE-Band 4 (1.4MHz)	1710.7MHz– 1754.3MHz	23dBm
	LTE-Band 4 (3MHz)	1711.5MHz – 1753.5MHz	23dBm
	LTE-Band 4 (5MHz)	1712.5MHz – 1752.5MHz	23dBm
	LTE-Band 4 (10MHz)	1715MHz – 1750MHz	23dBm
	LTE-Band 4 (15MHz)	1717.5MHz – 1747.5MHz	23dBm
	LTE-Band 4 (20MHz)	1720MHz – 1745MHz	23dBm
	LTE-Band 5 (1.4MHz)	824.7MHz – 848.3MHz	23dBm
	LTE-Band 5 (3MHz)	825.5MHz – 847.5MHz	23dBm
	LTE-Band 5 (5MHz)	826.5MHz – 846.5MHz	23dBm
	LTE-Band 5 (10MHz)	829.0MHz – 844.0MHz	23dBm
	LTE-Band 12 (1.4MHz)	699.7MHz– 715.3MHz	23dBm
	LTE-Band 12 (3MHz)	700.5MHz – 714.5MHz	23dBm
	LTE-Band 12 (5MHz)	701.5MHz – 713.5MHz	23dBm
LTE-Band 12 (10MHz)	704.0MHz – 711.0MHz	23dBm	

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	Operating Frequency		Rated Power
	Cellular Phone Standards Frequency Range and Power	LTE-Band 25 (1.4MHz)	1850.7MHz– 1914.3MHz
LTE-Band 25 (3MHz)		1851.5MHz – 1913.5MHz	23dBm
LTE-Band 25 (5MHz)		1852.5MHz – 1912.5MHz	23dBm
LTE-Band 25 (10MHz)		1855.0MHz – 1910.0MHz	23dBm
LTE-Band 25 (15MHz)		1857.5MHz – 1907.5MHz	23dBm
LTE-Band 25 (20MHz)		1860.0MHz – 1905.0MHz	23dBm
LTE-Band 26 (1.4MHz) (for Part 90S)		814.7 MHz– 823.3 MHz	23dBm
LTE-Band 26 (3MHz) (for Part 90S)		815.5 MHz– 822.5 MHz	23dBm
LTE-Band 26 (5MHz) (for Part 90S)		816.5 MHz– 821.5 MHz	23dBm
LTE-Band 26 (10MHz) (for Part 90S)		819.0 MHz– 819.0 MHz	23dBm
LTE-Band 26 (1.4MHz)		824.7 MHz– 848.3 MHz	23dBm
LTE-Band 26 (3MHz)		825.5 MHz– 847.5 MHz	23dBm
LTE-Band 26 (5MHz)		826.5 MHz– 846.5 MHz	23dBm
LTE-Band 26 (10MHz)		829.0 MHz– 844.0 MHz	23dBm
LTE-Band 26 (15MHz)		831.5 MHz– 841.5 MHz	23dBm
LTE-Band 41 (5MHz)		2498.5MHz – 2687.5MHz	23dBm
LTE-Band 41 (10MHz)		2501.0MHz – 2685.0MHz	23dBm
LTE-Band 41 (15MHz)		2503.5MHz – 2682.5MHz	23dBm
LTE-Band 41 (20MHz)		2506.0MHz – 2680.0MHz	23dBm
IMEI:	352646073826194		

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Type of Emission:

LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 2	1.4MHz	QPSK	1M10G7D
LTE Band 2	1.4MHz	16QAM	1M10D7W
LTE Band 2	3MHz	QPSK	2M70G7D
LTE Band 2	3MHz	16QAM	2M70D7W
LTE Band 2	5MHz	QPSK	4M51G7D
LTE Band 2	5MHz	16QAM	4M51D7W
LTE Band 2	10MHz	QPSK	9M01G7D
LTE Band 2	10MHz	16QAM	8M97D7W
LTE Band 2	15MHz	QPSK	13M5G7D
LTE Band 2	15MHz	16QAM	13M5D7W
LTE Band 2	20MHz	QPSK	18M0G7D
LTE Band 2	20MHz	16QAM	18M0D7W
LTE Band 4	1.4MHz	QPSK	1M10G7D
LTE Band 4	1.4MHz	16QAM	1M10D7W
LTE Band 4	3MHz	QPSK	2M70G7D
LTE Band 4	3MHz	16QAM	2M71D7W
LTE Band 4	5MHz	QPSK	4M51G7D
LTE Band 4	5MHz	16QAM	4M51D7W
LTE Band 4	10MHz	QPSK	9M00G7D
LTE Band 4	10MHz	16QAM	8M97D7W
LTE Band 4	15MHz	QPSK	13M5G7D
LTE Band 4	15MHz	16QAM	13M5D7W
LTE Band 4	20MHz	QPSK	18M0G7D
LTE Band 4	20MHz	16QAM	18M0D7W
LTE Band 5	1.4MHz	QPSK	1M10G7D
LTE Band 5	1.4MHz	16QAM	1M10D7W
LTE Band 5	3MHz	QPSK	2M70G7D
LTE Band 5	3MHz	16QAM	2M70D7W
LTE Band 5	5MHz	QPSK	4M51G7D
LTE Band 5	5MHz	16QAM	4M51D7W
LTE Band 5	10MHz	QPSK	9M02G7D
LTE Band 5	10MHz	16QAM	8M97D7W
LTE Band 12	1.4MHz	QPSK	1M10G7D
LTE Band 12	1.4MHz	16QAM	1M10D7W
LTE Band 12	3MHz	QPSK	2M71G7D
LTE Band 12	3MHz	16QAM	2M70D7W
LTE Band 12	5MHz	QPSK	4M52G7D
LTE Band 12	5MHz	16QAM	4M51D7W
LTE Band 12	10MHz	QPSK	9M04G7D
LTE Band 12	10MHz	16QAM	9M00D7W

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 25	1.4MHz	QPSK	1M10G7D
LTE Band 25	1.4MHz	16QAM	1M10D7W
LTE Band 25	3MHz	QPSK	2M70G7D
LTE Band 25	3MHz	16QAM	2M70D7W
LTE Band 25	5MHz	QPSK	4M51G7D
LTE Band 25	5MHz	16QAM	4M51D7W
LTE Band 25	10MHz	QPSK	9M00G7D
LTE Band 25	10MHz	16QAM	8M96D7W
LTE Band 25	15MHz	QPSK	13M5G7D
LTE Band 25	15MHz	16QAM	13M5D7W
LTE Band 25	20MHz	QPSK	13M5G7D
LTE Band 25	20MHz	16QAM	13M5D7W
LTE Band 26	1.4MHz	QPSK	1M10G7D
LTE Band 26	1.4MHz	16QAM	1M10D7W
LTE Band 26	3MHz	QPSK	2M71G7D
LTE Band 26	3MHz	16QAM	2M71D7W
LTE Band 26	5MHz	QPSK	4M51G7D
LTE Band 26	5MHz	16QAM	4M51D7W
LTE Band 26	10MHz	QPSK	9M00G7D
LTE Band 26	10MHz	16QAM	8M95D7W
LTE Band 26	15MHz	QPSK	13M5G7W
LTE Band 26	15MHz	16QAM	13M5D7W
LTE Band 41	5MHz	QPSK	4M53G7D
LTE Band 41	5MHz	16QAM	4M53D7W
LTE Band 41	10MHz	QPSK	8M98G7D
LTE Band 41	10MHz	16QAM	8M99D7W
LTE Band 41	15MHz	QPSK	13M5G7D
LTE Band 41	15MHz	16QAM	13M5D7W
LTE Band 41	20MHz	QPSK	17M9G7D
LTE Band 41	20MHz	16QAM	17M9D7W

Band 26 for Part 90S

LTE Band 26	1.4MHz	QPSK	1M10G7D
LTE Band 26	1.4MHz	16QAM	1M10D7W
LTE Band 26	3MHz	QPSK	2M71G7D
LTE Band 26	3MHz	16QAM	2M71D7W
LTE Band 26	5MHz	QPSK	4M52G7D
LTE Band 26	5MHz	16QAM	4M50D7W
LTE Band 26	10MHz	QPSK	9M00G7D
LTE Band 26	10MHz	16QAM	9M00D7W

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Max ERP/EIRP Power Measurement Result:

	dBm		W
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	30.72	EIRP	1.180
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	30.39	EIRP	1.094
LTE-Band 2 (Bandwidth 3MHz) QPSK	31.36	EIRP	1.368
LTE-Band 2 (Bandwidth 3MHz) 16QAM	31.41	EIRP	1.384
LTE-Band 2 (Bandwidth 5MHz) QPSK	30.69	EIRP	1.172
LTE-Band 2 (Bandwidth 5MHz) 16QAM	30.55	EIRP	1.135
LTE-Band 2 (Bandwidth 10MHz) QPSK	31.18	EIRP	1.312
LTE-Band 2 (Bandwidth 10MHz) 16QAM	31.16	EIRP	1.306
LTE-Band 2 (Bandwidth 15MHz) QPSK	30.98	EIRP	1.253
LTE-Band 2 (Bandwidth 15MHz) 16QAM	30.76	EIRP	1.191
LTE-Band 2 (Bandwidth 20MHz) QPSK	31.63	EIRP	1.455
LTE-Band 2 (Bandwidth 20MHz) 16QAM	30.42	EIRP	1.102
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	28.93	EIRP	0.782
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	29.17	EIRP	0.826
LTE-Band 4 (Bandwidth 3MHz) QPSK	29.49	EIRP	0.889
LTE-Band 4 (Bandwidth 3MHz) 16QAM	29.65	EIRP	0.923
LTE-Band 4 (Bandwidth 5MHz) QPSK	28.88	EIRP	0.773
LTE-Band 4 (Bandwidth 5MHz) 16QAM	29.53	EIRP	0.897
LTE-Band 4 (Bandwidth 10MHz) QPSK	29.32	EIRP	0.855
LTE-Band 4 (Bandwidth 10MHz) 16QAM	29.85	EIRP	0.966
LTE-Band 4 (Bandwidth 15MHz) QPSK	29.80	EIRP	0.955
LTE-Band 4 (Bandwidth 15MHz) 16QAM	29.58	EIRP	0.908
LTE-Band 4 (Bandwidth 20MHz) QPSK	29.79	EIRP	0.953
LTE-Band 4 (Bandwidth 20MHz) 16QAM	29.82	EIRP	0.959

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	dBm		W
LTE-Band 5 (Bandwidth 1.4MHz) QPSK	26.15	ERP	0.412
LTE-Band 5 (Bandwidth 1.4MHz) 16QAM	25.81	ERP	0.381
LTE-Band 5 (Bandwidth 3MHz) QPSK	25.96	ERP	0.394
LTE-Band 5 (Bandwidth 3MHz) 16QAM	25.73	ERP	0.374
LTE-Band 5 (Bandwidth 5MHz) QPSK	25.90	ERP	0.389
LTE-Band 5 (Bandwidth 5MHz) 16QAM	26.02	ERP	0.400
LTE-Band 5 (Bandwidth 10MHz) QPSK	26.11	ERP	0.408
LTE-Band 5 (Bandwidth 10MHz) 16QAM	25.89	ERP	0.388
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	19.07	ERP	0.081
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	19.01	ERP	0.080
LTE-Band 12 (Bandwidth 3MHz) QPSK	19.37	ERP	0.086
LTE-Band 12 (Bandwidth 3MHz) 16QAM	18.94	ERP	0.078
LTE-Band 12 (Bandwidth 5MHz) QPSK	17.00	ERP	0.050
LTE-Band 12 (Bandwidth 5MHz) 16QAM	17.13	ERP	0.052
LTE-Band 12 (Bandwidth 10MHz) QPSK	15.02	ERP	0.032
LTE-Band 12 (Bandwidth 10MHz) 16QAM	14.98	ERP	0.031
LTE-Band 25 (Bandwidth 1.4MHz) QPSK	32.15	EIRP	1.641
LTE-Band 25 (Bandwidth 1.4MHz) 16QAM	32.10	EIRP	1.622
LTE-Band 25 (Bandwidth 3MHz) QPSK	31.96	EIRP	1.570
LTE-Band 25 (Bandwidth 3MHz) 16QAM	31.89	EIRP	1.545
LTE-Band 25 (Bandwidth 5MHz) QPSK	31.82	EIRP	1.521
LTE-Band 25 (Bandwidth 5MHz) 16QAM	31.69	EIRP	1.476
LTE-Band 25 (Bandwidth 10MHz) QPSK	31.69	EIRP	1.476
LTE-Band 25 (Bandwidth 10MHz) 16QAM	31.66	EIRP	1.466
LTE-Band 25 (Bandwidth 15MHz) QPSK	31.75	EIRP	1.496
LTE-Band 25 (Bandwidth 15MHz) 16QAM	31.58	EIRP	1.439
LTE-Band 25 (Bandwidth 20MHz) QPSK	30.80	EIRP	1.202
LTE-Band 25 (Bandwidth 20MHz) 16QAM	30.92	EIRP	1.236

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	dBm		W
LTE-Band 26 (Bandwidth 1.4MHz) QPSK	25.54	ERP	0.358
LTE-Band 26 (Bandwidth 1.4MHz) 16QAM	25.53	ERP	0.357
LTE-Band 26 (Bandwidth 3MHz) QPSK	25.46	ERP	0.352
LTE-Band 26 (Bandwidth 3MHz) 16QAM	25.25	ERP	0.335
LTE-Band 26 (Bandwidth 5MHz) QPSK	25.33	ERP	0.341
LTE-Band 26 (Bandwidth 5MHz) 16QAM	25.29	ERP	0.338
LTE-Band 26 (Bandwidth 10MHz) QPSK	25.33	ERP	0.341
LTE-Band 26 (Bandwidth 10MHz) 16QAM	25.14	ERP	0.327
LTE-Band 26 (Bandwidth 15MHz) QPSK	25.70	ERP	0.372
LTE-Band 26 (Bandwidth 15MHz) 16QAM	25.46	ERP	0.352
LTE-Band 41 (Bandwidth 5MHz) QPSK	28.95	EIRP	0.785
LTE-Band 41 (Bandwidth 5MHz) 16QAM	27.82	EIRP	0.605
LTE-Band 41 (Bandwidth 10MHz) QPSK	29.51	EIRP	0.893
LTE-Band 41 (Bandwidth 10MHz) 16QAM	28.81	EIRP	0.760
LTE-Band 41 (Bandwidth 15MHz) QPSK	28.88	EIRP	0.773
LTE-Band 41 (Bandwidth 15MHz) 16QAM	28.12	EIRP	0.649
LTE-Band 41 (Bandwidth 20MHz) QPSK	29.40	EIRP	0.871
LTE-Band 41 (Bandwidth 20MHz) 16QAM	28.57	EIRP	0.719

LTE Band 26 for Part 90S

	dBm		W
LTE-Band 26 (Bandwidth 1.4MHz) QPSK	24.68	ERP	0.294
LTE-Band 26 (Bandwidth 1.4MHz) 16QAM	24.56	ERP	0.286
LTE-Band 26 (Bandwidth 3MHz) QPSK	25.22	ERP	0.333
LTE-Band 26 (Bandwidth 3MHz) 16QAM	24.90	ERP	0.309
LTE-Band 26 (Bandwidth 5MHz) QPSK	25.09	ERP	0.323
LTE-Band 26 (Bandwidth 5MHz) 16QAM	24.35	ERP	0.272
LTE-Band 26 (Bandwidth 10MHz) QPSK	24.52	ERP	0.283
LTE-Band 26 (Bandwidth 10MHz) 16QAM	24.09	ERP	0.256

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1.2. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22, 24, 27.

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

KDB941225 of the Output power Procedure of (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

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

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

1.3. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory

No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333(TAF code 0513)

FCC Registration Numbers are: 735305

1.4. Special Accessories

No special accessories were used during testing.

1.5. 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 plane. 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 plane. 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.

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 0.7dB for low band and 0.9dB for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =3.9+10=13.9(dB)

High Band: Offset = RF cable loss (dB)+ attenuation factor(dB) =4.1+10=14.1(dB)

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2.5. Final Amplifier Voltage and Current Information:

LTE Band 2

Test mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	3.8	710
LTE Band 2_1.4M 16QAM	3.8	670
LTE Band 2_3M QPSK	3.8	710
LTE Band 2_3M 16QAM	3.8	680
LTE Band 2_5M QPSK	3.8	720
LTE Band 2_5M 16QAM	3.8	680
LTE Band 2_10M QPSK	3.8	780
LTE Band 2_10M 16QAM	3.8	750
LTE Band 2_15M QPSK	3.8	790
LTE Band 2_15M 16QAM	3.8	760
LTE Band 2_20M QPSK	3.8	720
LTE Band 2_20M 16QAM	3.8	680

LTE Band 4

Test mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	3.8	660
LTE Band 4_1.4M 16QAM	3.8	650
LTE Band 4_3M QPSK	3.8	670
LTE Band 4_3M 16QAM	3.8	650
LTE Band 4_5M QPSK	3.8	690
LTE Band 4_5M 16QAM	3.8	660
LTE Band 4_10M QPSK	3.8	720
LTE Band 4_10M 16QAM	3.8	680
LTE Band 4_15M QPSK	3.8	760
LTE Band 4_15M 16QAM	3.8	710
LTE Band 4_20M QPSK	3.8	780
LTE Band 4_20M 16QAM	3.8	720

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LTE Band 5

Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	3.8	640
LTE Band 5_1.4M 16QAM	3.8	620
LTE Band 5_3M QPSK	3.8	650
LTE Band 5_3M 16QAM	3.8	630
LTE Band 5_5M QPSK	3.8	660
LTE Band 5_5M 16QAM	3.8	630
LTE Band 5_10M QPSK	3.8	690
LTE Band 5_10M 16QAM	3.8	640

LTE Band 12

Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_1.4M QPSK	3.8	710
LTE Band 5_1.4M 16QAM	3.8	670
LTE Band 5_3M QPSK	3.8	720
LTE Band 5_3M 16QAM	3.8	680
LTE Band 5_5M QPSK	3.8	710
LTE Band 5_5M 16QAM	3.8	670
LTE Band 5_10M QPSK	3.8	740
LTE Band 5_10M 16QAM	3.8	690

LTE Band 25

Test mode	DC voltage (V)	DC current (mA)
LTE Band 25_1.4M QPSK	3.8	719
LTE Band 25_1.4M 16QAM	3.8	671
LTE Band 25_3M QPSK	3.8	711
LTE Band 2_3M 16QAM	3.8	675
LTE Band 2_5M QPSK	3.8	718
LTE Band 2_5M 16QAM	3.8	687
LTE Band 2_10M QPSK	3.8	781
LTE Band 2_10M 16QAM	3.8	755
LTE Band 2_15M QPSK	3.8	794
LTE Band 2_15M 16QAM	3.8	765
LTE Band 2_20M QPSK	3.8	724
LTE Band 2_20M 16QAM	3.8	683

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LTE Band 26

Test mode	DC voltage (V)	DC current (mA)
LTE Band 26_1.4M QPSK	3.8	650
LTE Band 26_1.4M 16QAM	3.8	720
LTE Band 26_3M QPSK	3.8	680
LTE Band 26_3M 16QAM	3.8	710
LTE Band 26_5M QPSK	3.8	670
LTE Band 26_5M 16QAM	3.8	630
LTE Band 26_10M QPSK	3.8	660
LTE Band 26_10M 16QAM	3.8	630
LTE Band 26_15M QPSK	3.8	690
LTE Band 26_15M 16QAM	3.8	670

LTE Band 41

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 41_5M QPSK	3.8	770
LTE Band 41_5M 16QAM	3.8	730
LTE Band 41_10M QPSK	3.8	740
LTE Band 41_10M 16QAM	3.8	720
LTE Band 41_15M QPSK	3.8	780
LTE Band 41_15M 16QAM	3.8	710
LTE Band 41_20M QPSK	3.8	750
LTE Band 41_20M 16QAM	3.8	760

LTE Band 26 for Part 90S

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 26_1.4M QPSK	3.8	642
LTE Band 26_1.4M 16QAM	3.8	719
LTE Band 26_3M QPSK	3.8	681
LTE Band 26_3M 16QAM	3.8	713
LTE Band 26_5M QPSK	3.8	672
LTE Band 26_5M 16QAM	3.8	632
LTE Band 26_10M QPSK	3.8	659
LTE Band 26_10M 16QAM	3.8	632

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2.6. Configuration of Tested System

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

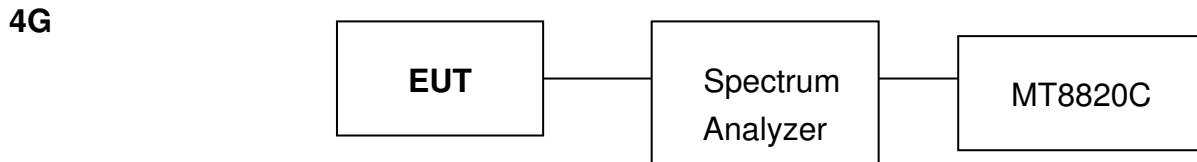


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

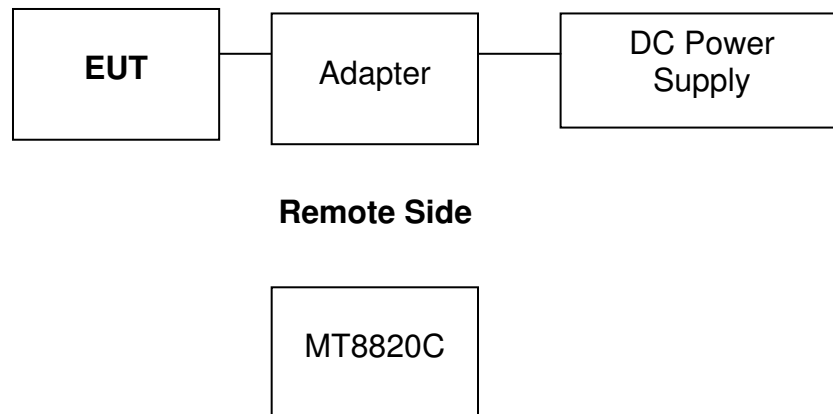


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
2.	DC Power Supply	HP	E3640A	KR93300208	N/A	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) §27.50(h)(2) §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	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 12	H-plan	H-plan
LTE Band 25	E2-plan	E2-plan
LTE Band 26	H-plan	H-plan
LTE Band 41	E2-plan	E2-plan
LTE Band 26 for Part 90S	H-plan	H-plan

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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
	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,	1 RB/ 0,5 RB Offes Full RB
	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	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 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
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	Full RB
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	19965 to 22385	19965, 20175, 22385	3MHz	QPSK	1 RB, 14 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 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	20470 to 20643	20470, 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
BAND EDGE	20470 to 20643	20470, 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	20470 to 20643	20470, 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	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 14 RB Offest

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB, 14 RB Offest

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LTE Band 25MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26047to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26055to 26675	26055 , 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26065to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26090to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26115to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	26140to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	26140to 26590	26365	20MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26047to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB
	26055to 26675	26055 , 26365, 26675	3MHz	QPSK, 16QAM	Full RB
	26065to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
	26090to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB
BAND EDGE	26047to 26683	26047, 26365, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26055to 26675	26055 , 26365, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26065to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26090to 26640	26090, 26365, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26115to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	26140to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	26047to 26683	26047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26055to 26675	26055 , 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offest
	26065to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offest
	26090to 26640	26090, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offest
	26115to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offest
	26140to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26140to 26590	26140	20MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUDED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
BAND EDGE	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offset Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offset Full RB
CONDUCTED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offset
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM	Full RB
BAND EDGE	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26740	26740	10MHz	QPSK,	1 RB, 0 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)	9kHz – 30MHz: +/- 2.87 dB
	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)	9kHz – 30MHz: +/- 2.87 dB
	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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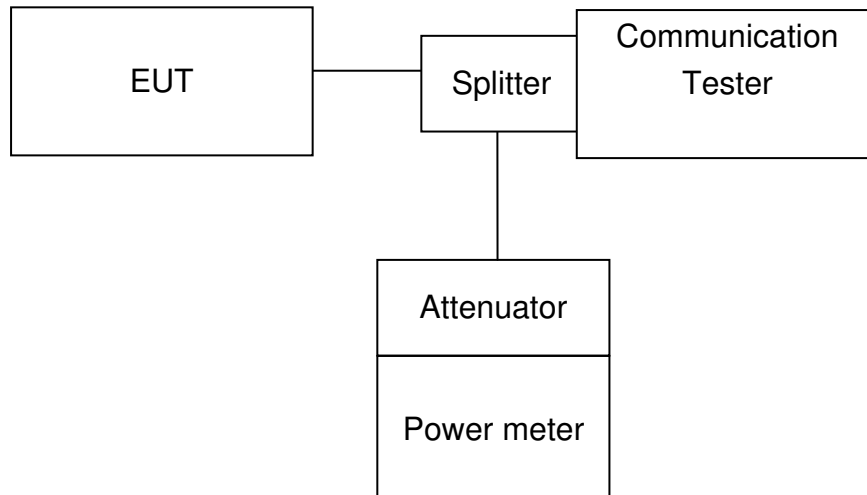
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195 C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/16/2016	06/15/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017

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6.5. Measurement Result
RF Conducted Output Power
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	23.43	23.27	23.08	22.09	22.59	22.5
	1	5	23.52	23.31	23.19	22.66	22.68	22.32
	3	2	23.71	23.41	23.12	22.69	22.51	22.16
	6	0	22.49	22.39	22.14	21.32	21.17	21.03

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	23.43	23.4	23.16	22.51	22.15	22.14
	1	14	23.71	23.42	23.26	22.42	22.61	21.96
	8	4	22.63	22.37	22.11	21.82	21.21	21.21
	15	0	22.44	22.29	22.09	21.54	21.26	20.95

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	23.31	23.34	23.33	22.47	22.73	22.41
	1	24	23.29	23.3	23.33	23	21.9	22.27
	12	6	22.52	22.32	22.25	21.52	21.33	21.21
	25	0	22.55	22.4	22.25	21.32	21.43	21.2

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	23.53	23.36	23.28	22.94	22.73	22.79
	1	49	23.45	23.48	23.15	22.64	22.19	22.3
	25	12	22.41	22.36	22.47	21.33	21.79	21.28
	50	0	22.48	22.38	22.39	21.49	21.49	21.36

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	23.33	23.56	23.49	22.35	22.48	22.97
	1	74	23.49	23.55	23.21	22.69	23	22.01
	36	19	22.46	22.44	22.47	21.52	21.42	21.42
	75	0	22.5	22.49	22.47	21.43	21.35	21.41

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	23.72	23.44	23.38	22.73	23	22.47
	1	99	23.55	23.52	23.07	22.27	22.7	22.18
	50	25	22.59	22.39	22.54	21.54	21.45	21.51
	100	0	22.58	22.48	22.5	21.49	21.45	21.36

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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)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			19957	20175	20393	19957	20175	20393
1.4	1	0	23.09	23.22	22.96	22.29	22.07	22.4
	1	5	22.98	23.02	22.96	22.33	22.32	22.66
	3	2	23.06	23.22	22.99	22.06	22.3	22.36
	6	0	22.18	22.14	22	21.94	21.19	21.17

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			19965	20175	20385	19965	20175	20385
3	1	0	23.17	23.25	23.11	22.74	22.74	22.41
	1	14	23.21	23.08	23.16	22.03	21.96	22.63
	8	4	22.05	22.24	22.06	20.96	21.36	21.27
	15	0	22.13	22.22	22.08	21.01	21.21	21.22

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			19975	20175	20375	19975	20175	20375
5	1	0	23.36	23.18	23.1	22.34	22.06	22.54
	1	24	23.01	23.2	22.97	22.04	22.14	22.39
	12	6	22.15	22.24	22.12	21.12	21.2	21.03
	25	0	22.09	22.24	21.99	21.12	21.3	21.02

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			20000	20175	20350	20000	20175	20350
10	1	0	23.08	23.33	23.31	21.94	22.87	22.52
	1	49	22.88	23.12	23.16	21.97	22.58	22.32
	25	12	22.25	22.33	22.19	21.03	21.21	20.99
	50	0	22.2	22.28	22.22	21.1	21.26	21.1

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			20025	20175	20325	20025	20175	20325
15	1	0	23.29	23.33	23.27	22.26	22.74	22.28
	1	74	23.07	23.13	22.92	22.28	22.39	22
	36	19	22.23	22.24	22.14	21.03	21.15	21.16
	75	0	22.15	22.3	22.14	21.11	21.21	21.14

LTE Band 4 Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
			20050	20175	20300	20050	20175	20300
20	1	0	23.17	23.31	23.46	22.35	22.74	22.61
	1	99	23.05	23.08	22.93	22.23	22.09	22.71
	50	25	22.18	22.27	22.22	21.2	21.23	21.08
	100	0	22.21	22.21	22.21	21.25	21.2	21.19

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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)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
1.4	1	0	23.05	23.04	23.17	22.62	22.51	22.08
	1	5	22.89	23.05	22.89	22.55	22.33	21.43
	3	2	23.13	23.18	23.17	22.24	22.1	22.26
	6	0	22.11	22.16	22.14	20.98	21.18	20.78

LTE Band 5 Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
3	1	0	23.04	23.21	23.13	22.56	22.09	22.4
	1	14	22.94	23.28	23	22.12	22.03	21.57
	8	4	21.99	22.1	22.13	20.81	21.32	20.95
	15	0	21.97	22.21	22.13	20.88	21.2	20.93

LTE Band 5 Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
5	1	0	22.85	23.08	22.95	22.52	22.24	23
	1	24	22.89	23.06	22.92	22.42	21.63	22.41
	12	6	22.02	22.05	22.05	20.94	21.02	20.8
	25	0	22.13	22.11	22.13	20.91	21.29	20.91

LTE Band 5 Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
10	1	0	22.79	23.02	23.07	21.9	22.68	22.64
	1	49	22.83	22.9	22.99	22.54	22.02	21.85
	25	12	22.1	22.08	22.23	21.02	20.99	21.26
	50	0	22.22	22.19	22.17	21.08	21.07	21.17

LTE Band 12

LTE Band 12 Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
1.4	1	0	23.01	23.03	22.89	21.98	21.55	22.12
	1	5	22.88	22.99	22.86	22.09	21.99	22.01
	3	2	22.87	22.92	22.86	21.73	22.26	21.8
	6	0	21.75	22.11	22.06	20.52	21.02	20.67

LTE Band 12 Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
3	1	0	22.59	23.09	23.1	22.65	22.71	22.21
	1	14	22.72	23.07	22.84	22.35	21.82	22.43
	8	4	21.8	22.08	22.13	20.89	21.2	20.8
	15	0	21.78	22.01	22.06	20.86	21.11	20.86

LTE Band 12 Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
5	1	0	22.81	23.08	23	21.98	22.42	22.04
	1	24	22.91	23.05	23.21	21.89	22.41	22.15
	12	6	21.85	22.04	21.97	20.9	20.98	20.94
	25	0	22	22.01	22.09	21.09	20.82	20.87

LTE Band 12 Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low)	Channel (Mid)	Channel (High)	Channel (Low)	Channel (Mid)	Channel (High)
10	1	0	22.57	23.03	23.15	22.51	22.44	22.42
	1	49	22.76	22.96	23.01	21.9	21.57	22.26
	25	12	21.93	22.06	22.17	20.88	21.27	21.48
	50	0	22.01	22.08	22.11	21.05	21.06	21.18

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LTE Band 25

LTE Band 25 Uplink frequency band : 1850.7 to 1914.3 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26047	CH (Mid) 26365	CH (High) 26683	CH (Low) 26047	CH (Mid) 26365	CH (High) 26683
1.4	1	0	23.33	23.2	23.12	22.63	22.58	22.48
	1	5	23.08	22.22	22.95	22.21	22.76	22.03
	3	2	23.2	23.11	22.95	22.16	22.43	22.02
	6	0	22.24	22.2	22.11	21.04	20.53	21.07

LTE Band 25 Uplink frequency band : 1850.7 to 1914.3 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26055	CH (Mid) 26365	CH (High) 26675	CH (Low) 26055	CH (Mid) 26365	CH (High) 26675
3	1	0	23.25	23.16	23.31	21.94	22.46	22.75
	1	14	23.33	23.45	23.16	22.38	22.31	22.18
	8	4	22.24	22.22	22.31	21.25	21.33	21.3
	15	0	22.17	22.1	22.18	21	21.12	21.24

LTE Band 25 Uplink frequency band : 1850.7 to 1914.3 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26065	CH (Mid) 26365	CH (High) 26665	CH (Low) 26065	CH (Mid) 26365	CH (High) 26665
5	1	0	23.45	22.98	23.15	22.38	22.62	22.79
	1	24	23.2	23.12	23.19	22.42	22.32	22.82
	12	6	22.23	22.14	22.23	20.91	21.16	21.22
	25	0	22.17	22.22	22.33	21.09	20.96	21.27

LTE Band 25 Uplink frequency band : 1850.7 to 1914.3 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26090	CH (Mid) 26365	CH (High) 26640	CH (Low) 26090	CH (Mid) 26365	CH (High) 26640
10	1	0	23.22	23.17	22.97	22.59	22.35	22.35
	1	49	23.12	23.36	23.08	22.48	22.27	22.43
	25	12	22.2	22.19	22.26	21.22	21.61	22.52
	50	0	22.18	22.22	22.3	21.22	21.28	21.38

LTE Band 25 Uplink frequency band : 1850.7 to 1914.3 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26115	CH (Mid) 26365	CH (High) 26615	CH (Low) 26115	CH (Mid) 26365	CH (High) 26615
15	1	0	23.26	23.25	23.21	22.77	22.55	22.18
	1	74	22.94	23.02	23.01	21.83	21.97	21.89
	36	19	22.17	22.18	22.14	21.21	21.21	21.15
	75	0	22.19	22.14	22.27	21.12	21.18	21.21

LTE Band 25 Uplink frequency band : 1850.7 to 1914.3 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26140	CH (Mid) 26365	CH (High) 26590	CH (Low) 26140	CH (Mid) 26365	CH (High) 26590
20	1	0	23.1	23.16	23.09	22.12	22.07	22.31
	1	99	23.03	23.24	23.24	22.03	22.15	22.61
	50	25	22.18	22.16	22.12	20.95	21.19	21.15
	100	0	22.13	22.14	22.2	21.08	21.2	21.25

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LTE Band 26

LTE Band 26 Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26797	Channel (Mid) 26915	Channel (High) 27033	Channel (Low) 26797	Channel (Mid) 26915	Channel (High) 27033
1.4	1	0	22.86	22.95	23.13	21.8	22.34	21.95
	1	5	22.99	22.79	23	22.21	22.12	22.66
	3	2	23.29	22.99	23.35	22.45	21.9	22.57
	6	0	22.14	22.15	22.03	20.87	20.81	21.02

LTE Band 26 Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26805	Channel (Mid) 26915	Channel (High) 27025	Channel (Low) 26805	Channel (Mid) 26915	Channel (High) 27025
3	1	0	23.2	23.07	23.27	22.51	22.33	22.73
	1	14	22.98	23.36	23.06	21.97	22.45	22.17
	8	4	22.02	22.03	22.1	21.14	21.21	20.82
	15	0	22.11	22.05	22.15	21.35	21.1	20.81

LTE Band 26 Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26815	Channel (Mid) 26915	Channel (High) 27015	Channel (Low) 26815	Channel (Mid) 26915	Channel (High) 27015
5	1	0	23.28	22.92	23.32	22.3	22.45	22
	1	24	22.93	23.32	22.89	22.05	22.34	21.62
	12	6	21.98	22.1	22.01	20.99	21.11	20.95
	25	0	22.03	22.07	22.15	21.15	21.22	21.06

LTE Band 26 Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26840	Channel (Mid) 26915	Channel (High) 26990	Channel (Low) 26840	Channel (Mid) 26915	Channel (High) 26990
10	1	0	23.1	22.97	23.5	22.01	22.4	22.98
	1	49	23.03	23.11	23.23	22.39	22.46	21.93
	25	12	22.12	22.09	22.14	20.86	21.16	21.01
	50	0	22.1	22.16	22.15	21.13	21.12	21.14

LTE Band 26 Uplink frequency band : 824 to 849 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 26865	Channel (Mid) 26915	Channel (High) 26965	Channel (Low) 26865	Channel (Mid) 26915	Channel (High) 26965
15	1	0	23	23.14	23.05	22.03	22.01	22.33
	1	74	23.12	23.2	23.06	21.89	22.19	22.28
	36	19	22.01	22.12	22.21	21.07	21.03	21.15
	75	0	22.09	22.18	22.2	20.91	21.05	21.09

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LTE Band 41

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 39675	Channel (Mid) 40620	Channel (High) 41565	Channel (Low) 39675	Channel (Mid) 40620	Channel (High) 41565
5	1	0	22.53	22.67	22.63	21.74	21.68	21.4
	1	24	22.51	22.7	22.33	21.74	21.78	21.61
	12	6	21.57	21.85	21.48	20.69	20.93	20.6
	25	0	21.64	21.81	21.62	20.61	21	20.47

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 39700	Channel (Mid) 40620	Channel (High) 41540	Channel (Low) 39700	Channel (Mid) 40620	Channel (High) 41540
10	1	0	22.72	22.81	22.69	21.87	21.93	21.8
	1	49	22.63	22.52	22.28	21.68	21.9	21.62
	25	12	21.76	21.96	21.43	20.74	20.98	20.55
	50	0	21.64	21.87	21.48	20.69	20.79	20.63

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 39725	Channel (Mid) 40620	Channel (High) 41515	Channel (Low) 39725	Channel (Mid) 40620	Channel (High) 41515
15	1	0	22.63	22.78	22.56	21.61	21.68	21.79
	1	74	22.49	22.72	22.37	21.43	21.88	21.48
	36	19	21.66	21.79	21.44	20.47	20.75	20.42
	75	0	21.59	21.7	21.44	20.69	20.79	20.45

LTE Band 41 Uplink frequency band : 2496 to 2690 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 39750	Channel (Mid) 40620	Channel (High) 41490	Channel (Low) 39750	Channel (Mid) 40620	Channel (High) 41490
20	1	0	22.81	22.74	22.61	21.97	22	21.82
	1	99	22.44	22.56	22.24	21.54	21.78	21.39
	50	25	21.62	21.77	21.42	20.74	20.7	20.46
	100	0	21.64	21.91	21.42	20.63	20.8	20.55

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LTE Band 26 for Part 90S

LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26697	CH (Mid) 26740	CH (High) 26783	CH (Low) 26697	CH (Mid) 26740	CH (High) 26783
1.4	1	0	22.43	22.57	22.34	21.3	21.46	21.56
	1	5	22.28	22.58	22.12	21.39	21.25	21.11
	3	2	22.24	22.42	22.21	21.01	21.28	21.17
	6	0	21.18	21.28	21.24	20.12	20.35	20.36

LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26705	CH (Mid) 26740	CH (High) 26775	CH (Low) 26705	CH (Mid) 26740	CH (High) 26775
3	1	0	22.65	22.52	22.34	21.03	21.32	21.48
	1	14	22.34	22.69	22.25	21.2	21.06	21.38
	8	4	21.2	21.36	21.33	20.03	20.29	20.35
	15	0	21.22	21.28	21.29	20.18	20.26	20.34

LTE Band 26_Uplink frequency band : 814 to 824 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)					
			QPSK			16QAM		
			CH (Low) 26715	CH (Mid) 26740	CH (High) 26765	CH (Low) 26715	CH (Mid) 26740	CH (High) 26765
5	1	0	22.36	22.38	22.48	21.64	21.63	21.56
	1	24	22.18	22.31	22.6	21.78	21.73	21.75
	12	6	21.25	21.25	21.26	20.32	20.28	20.17
	25	0	21.27	21.33	21.3	20.34	20.16	20.31

LTE Band 26_Uplink frequency band : 814 to 824 MHz				
BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	
			QPSK	16QAM
			CH (Mid) 26740	CH (Mid) 26740
10	1	0	22.51	21.16
	1	49	22.52	21.48
	25	12	21.36	20.12
	50	0	21.39	20.17

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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) fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP.

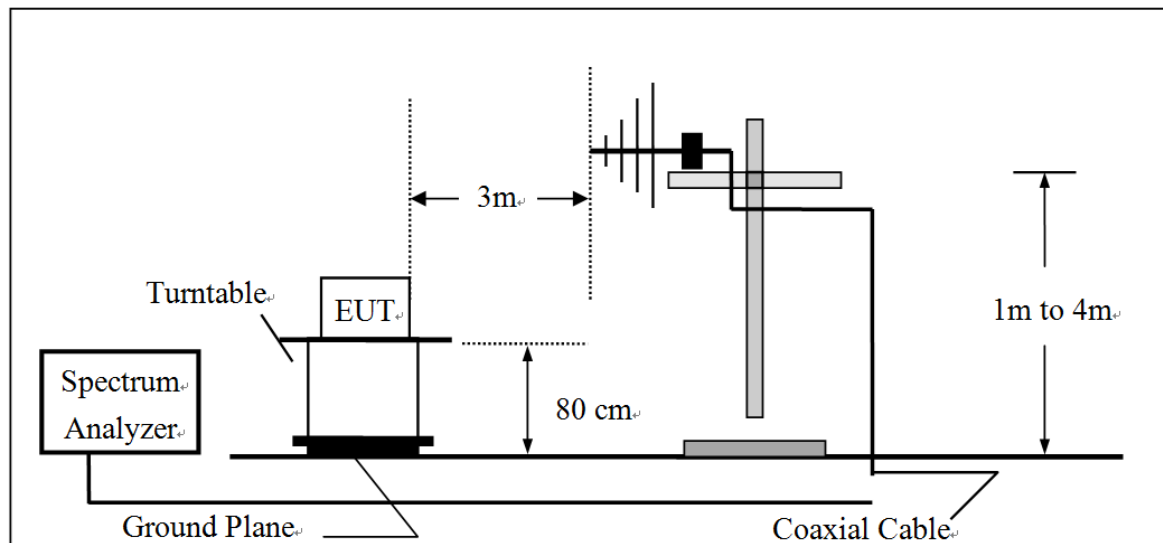
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

FCC 90.635(b) Mobile station is limited to 100W ERP

7.2. Test SET-UP

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



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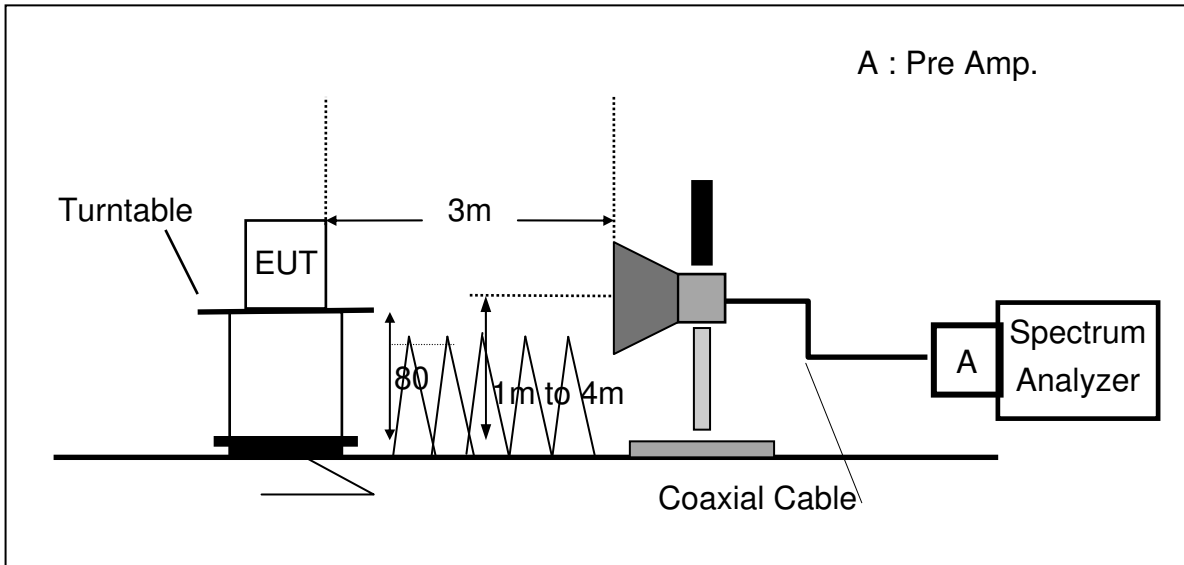
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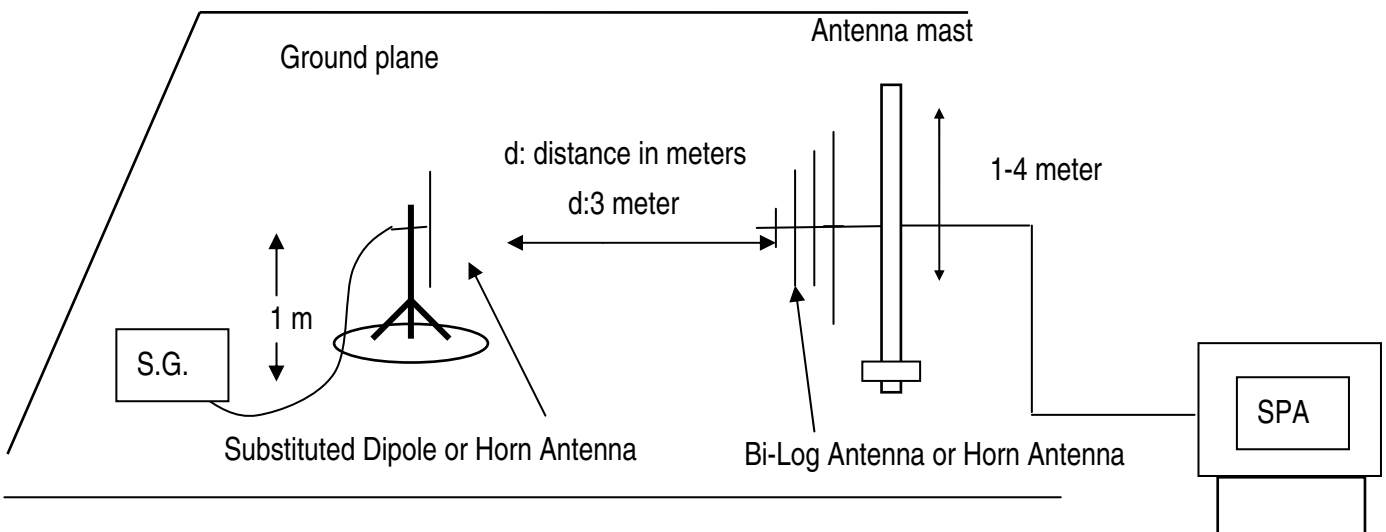
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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(C) Substituted Method Test Set-UP



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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. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
7. ERP = S.G. output (dBm) + Antenna Gain (dBd) – Cable Loss (dB)
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*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 $10 \cdot \log(TBW/RBW)$, where TBW is the transmission of UE exceeding the maximum BW UE can extends, 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	04/12/2016	04/11/2017
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Broadband Antenna	TESEQ	CBL 6112D	35243	11/09/2016	11/08/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/15/2016	12/16/2017
Horn Antenna	ETS-Lindgren	3117	143279	11/14/2016	11/13/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2016	12/10/2017
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2016	07/23/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC001830	980199	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-18	10204	12/12/2016	12/11/2017
Pre Amplifier	R&S	SCU-26	100780	12/12/2016	12/11/2017
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2016	12/11/2017
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF27	12/12/2016	12/11/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
Site VSWR	SGS	966 Chamber C	SAC-C	03/02/2017	03/01/2018
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
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	15.86	9.59	-5.04	20.41	33.01
			H	25.65	9.59	-5.04	30.2	33.01
	1880.0	18900	V	17.32	9.69	-5.15	21.86	33.01
			H	26.18	9.69	-5.15	30.72	33.01
	1909.3	19193	V	16.39	9.79	-5.12	21.06	33.01
			H	25.26	9.79	-5.12	29.93	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	15.96	9.59	-5.04	20.51	33.01
			H	25.71	9.59	-5.04	30.26	33.01
	1880.0	18900	V	17.39	9.69	-5.15	21.93	33.01
			H	26.01	9.69	-5.15	30.55	33.01
	1909.3	19193	V	16.25	9.79	-5.12	20.92	33.01
			H	25.51	9.79	-5.12	30.18	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	15.77	9.58	-5.04	20.31	33.01
			H	25.85	9.58	-5.04	30.39	33.01
	1880.0	18900	V	17.21	9.68	-5.15	21.74	33.01
			H	25.65	9.68	-5.15	30.18	33.01
	1909.3	19193	V	16.41	9.79	-5.12	21.08	33.01
			H	25.44	9.79	-5.12	30.11	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	15.78	9.59	-5.04	20.33	33.01
			H	25.65	9.59	-5.04	30.2	33.01
	1880.0	18900	V	17.25	9.69	-5.15	21.79	33.01
			H	25.62	9.69	-5.15	30.16	33.01
	1909.3	19193	V	15.84	9.79	-5.12	20.51	33.01
			H	25.28	9.79	-5.12	29.95	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: 3M QPSK RB: 1,0	1851.5	18615	V	16.17	9.59	-5.04	20.72	33.01
			H	26.03	9.59	-5.04	30.58	33.01
	1880.0	18900	V	17.32	9.68	-5.14	21.86	33.01
			H	26.6	9.68	-5.14	31.14	33.01
	1908.5	19185	V	17.45	9.75	-5.1	22.1	33.01
			H	26.58	9.75	-5.1	31.23	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	16.39	9.6	-5.05	20.94	33.01
			H	26.03	9.6	-5.05	30.58	33.01
	1880.0	18900	V	17.52	9.69	-5.16	22.05	33.01
			H	26.48	9.69	-5.16	31.01	33.01
	1908.5	19185	V	17.08	9.76	-5.11	21.73	33.01
			H	26.71	9.76	-5.11	31.36	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	16.03	9.59	-5.04	20.58	33.01
			H	25.93	9.59	-5.04	30.48	33.01
	1880.0	18900	V	17.57	9.68	-5.15	22.1	33.01
			H	26.28	9.68	-5.15	30.81	33.01
	1908.5	19185	V	17.17	9.75	-5.12	21.8	33.01
			H	26.22	9.75	-5.12	30.85	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	16.3	9.6	-5.05	20.85	33.01
			H	25.88	9.6	-5.05	30.43	33.01
	1880.0	18900	V	17.43	9.69	-5.16	21.96	33.01
			H	26.47	9.69	-5.16	31	33.01
	1908.5	19185	V	17.34	9.75	-5.11	21.98	33.01
			H	26.77	9.75	-5.11	31.41	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	16.06	9.59	-5.04	20.61	33.01
			H	25.81	9.59	-5.04	30.36	33.01
	1880.0	18900	V	17.28	9.68	-5.14	21.82	33.01
			H	26.07	9.68	-5.14	30.61	33.01
	1907.5	19175	V	17.16	9.77	-5.11	21.82	33.01
			H	26.03	9.77	-5.11	30.69	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	16.29	9.6	-5.05	20.84	33.01
			H	25.68	9.6	-5.05	30.23	33.01
	1880.0	18900	V	17.22	9.7	-5.16	21.76	33.01
			H	25.66	9.7	-5.16	30.2	33.01
	1907.5	19175	V	16.25	9.79	-5.12	20.92	33.01
			H	25.33	9.79	-5.12	30	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	16.04	9.59	-5.04	20.59	33.01
			H	25.6	9.59	-5.04	30.15	33.01
	1880.0	18900	V	16.93	9.68	-5.14	21.47	33.01
			H	25.82	9.68	-5.14	30.36	33.01
	1907.5	19175	V	17.24	9.77	-5.11	21.9	33.01
			H	25.89	9.77	-5.11	30.55	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	16.37	9.6	-5.05	20.92	33.01
			H	25.69	9.6	-5.05	30.24	33.01
	1880.0	18900	V	17.09	9.7	-5.17	21.62	33.01
			H	25.73	9.7	-5.17	30.26	33.01
	1907.5	19175	V	16.16	9.79	-5.12	20.83	33.01
			H	25.36	9.79	-5.12	30.03	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: 10M QPSK RB: 1,0	1855.0	18650	V	16.19	9.59	-5.04	20.74	33.01
			H	25.68	9.59	-5.04	30.23	33.01
	1880.0	18900	V	16.89	9.67	-5.12	21.44	33.01
			H	26.12	9.67	-5.12	30.67	33.01
	1905.0	19150	V	17.53	9.76	-5.1	22.19	33.01
			H	26.52	9.76	-5.1	31.18	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	16.57	9.62	-5.06	21.13	33.01
			H	26.4	9.62	-5.06	30.96	33.01
	1880.0	18900	V	17.08	9.7	-5.17	21.61	33.01
			H	25.79	9.7	-5.17	30.32	33.01
	1905.0	19150	V	16.11	9.79	-5.12	20.78	33.01
			H	25.6	9.79	-5.12	30.27	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	16.15	9.59	-5.04	20.7	33.01
			H	25.58	9.59	-5.04	30.13	33.01
	1880.0	18900	V	16.98	9.67	-5.13	21.52	33.01
			H	26.1	9.67	-5.13	30.64	33.01
	1905.0	19150	V	17.39	9.76	-5.1	22.05	33.01
			H	26.5	9.76	-5.1	31.16	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	16.5	9.62	-5.06	21.06	33.01
			H	26	9.62	-5.06	30.56	33.01
	1880.0	18900	V	16.96	9.7	-5.17	21.49	33.01
			H	25.59	9.7	-5.17	30.12	33.01
	1905.0	19150	V	16.13	9.79	-5.12	20.8	33.01
			H	25.54	9.79	-5.12	30.21	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	15.49	9.59	-5.04	20.04	33.01
			H	25.43	9.59	-5.04	29.98	33.01
	1880.0	18900	V	16.73	9.67	-5.11	21.29	33.01
			H	25.95	9.67	-5.11	30.51	33.01
	1902.5	19125	V	16.31	9.74	-5.12	20.93	33.01
			H	26.36	9.74	-5.12	30.98	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	15.95	9.63	-5.07	20.51	33.01
			H	25.94	9.63	-5.07	30.5	33.01
	1880.0	18900	V	16.49	9.71	-5.16	21.04	33.01
			H	25.61	9.71	-5.16	30.16	33.01
	1902.5	19125	V	14.37	9.79	-5.12	19.04	33.01
			H	25.51	9.79	-5.12	30.18	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	15.39	9.59	-5.04	19.94	33.01
			H	25.36	9.59	-5.04	29.91	33.01
	1880.0	18900	V	16.51	9.67	-5.11	21.07	33.01
			H	25.95	9.67	-5.11	30.51	33.01
	1902.5	19125	V	16.35	9.74	-5.12	20.97	33.01
			H	26.14	9.74	-5.12	30.76	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	15.71	9.63	-5.07	20.27	33.01
			H	25.82	9.63	-5.07	30.38	33.01
	1880.0	18900	V	16.36	9.71	-5.16	20.91	33.01
			H	25.51	9.71	-5.16	30.06	33.01
	1902.5	19125	V	13.88	9.79	-5.12	18.55	33.01
			H	25.16	9.79	-5.12	29.83	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	15.56	9.59	-5.04	20.11	33.01
			H	25.48	9.59	-5.04	30.03	33.01
	1880.0	18900	V	18.62	9.66	-5.1	23.18	33.01
			H	27.07	9.66	-5.1	31.63	33.01
	1900.0	19100	V	16.48	9.73	-5.14	21.07	33.01
			H	25.83	9.73	-5.14	30.42	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	16.37	9.65	-5.08	20.94	33.01
			H	25.78	9.65	-5.08	30.35	33.01
	1880.0	18900	V	16.43	9.72	-5.15	21	33.01
			H	25.52	9.72	-5.15	30.09	33.01
	1900.0	19100	V	14.12	9.79	-5.12	18.79	33.01
			H	25.2	9.79	-5.12	29.87	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	15.39	9.59	-5.04	19.94	33.01
			H	25.51	9.59	-5.04	30.06	33.01
	1880.0	18900	V	16.11	9.66	-5.1	20.67	33.01
			H	25.86	9.66	-5.1	30.42	33.01
	1900.0	19100	V	16.59	9.73	-5.14	21.18	33.01
			H	25.73	9.73	-5.14	30.32	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	16.37	9.65	-5.08	20.94	33.01
			H	25.65	9.65	-5.08	30.22	33.01
	1880.0	18900	V	16.49	9.72	-5.15	21.06	33.01
			H	25.58	9.72	-5.15	30.15	33.01
	1900.0	19100	V	14.06	9.79	-5.12	18.73	33.01
			H	25.31	9.79	-5.12	29.98	33.01

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: 1.4M/ QPSK RB: 1,0	1710.7	19957	V	22.44	9.11	-4.81	26.74	30.00
			H	24.59	9.11	-4.81	28.89	30.00
	1732.5	20175	V	21.53	9.19	-4.85	25.87	30.00
			H	23.3	9.19	-4.85	27.64	30.00
	1754.3	20393	V	21.49	9.26	-4.9	25.85	30.00
			H	24.41	9.26	-4.9	28.77	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	22.87	9.11	-4.82	27.16	30.00
			H	24.64	9.11	-4.82	28.93	30.00
	1732.5	20175	V	21.44	9.18	-4.85	25.77	30.00
			H	23.26	9.18	-4.85	27.59	30.00
	1754.3	20393	V	21.36	9.26	-4.9	25.72	30.00
			H	24.4	9.26	-4.9	28.76	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	22.45	9.11	-4.81	26.75	30.00
			H	24.27	9.11	-4.81	28.57	30.00
	1732.5	20175	V	21.33	9.18	-4.85	25.66	30.00
			H	23.27	9.18	-4.85	27.6	30.00
	1754.3	20393	V	21.27	9.26	-4.9	25.63	30.00
			H	24.81	9.26	-4.9	29.17	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	22.72	9.12	-4.82	27.02	30.00
			H	24.71	9.12	-4.82	29.01	30.00
	1732.5	20175	V	21.36	9.18	-4.85	25.69	30.00
			H	23.34	9.18	-4.85	27.67	30.00
	1754.3	20393	V	21.4	9.26	-4.9	25.76	30.00
			H	24.48	9.26	-4.9	28.84	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: 3M QPSK RB: 1,0	1711.5	19965	V	22.7	9.11	-4.81	27	30.00
			H	25.15	9.11	-4.81	29.45	30.00
	1732.5	20175	V	20.83	9.18	-4.84	25.17	30.00
			H	24.52	9.18	-4.84	28.86	30.00
	1753.5	20385	V	21.63	9.25	-4.9	25.98	30.00
			H	25.14	9.25	-4.9	29.49	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	22.41	9.12	-4.82	26.71	30.00
			H	25.19	9.12	-4.82	29.49	30.00
	1732.5	20175	V	21.05	9.19	-4.85	25.39	30.00
			H	24.54	9.19	-4.85	28.88	30.00
	1753.5	20385	V	21.36	9.26	-4.9	25.72	30.00
			H	25.01	9.26	-4.9	29.37	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	22.66	9.11	-4.81	26.96	30.00
			H	24.46	9.11	-4.81	28.76	30.00
	1732.5	20175	V	22.27	9.12	-4.82	26.57	30.00
			H	25.2	9.12	-4.82	29.5	30.00
	1753.5	20385	V	21.02	9.18	-4.84	25.36	30.00
			H	24.07	9.18	-4.84	28.41	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	21.03	9.19	-4.85	25.37	30.00
			H	24.13	9.19	-4.85	28.47	30.00
	1732.5	20175	V	21.35	9.25	-4.9	25.7	30.00
			H	25.3	9.25	-4.9	29.65	30.00
	1753.5	20385	V	21.75	9.26	-4.9	26.11	30.00
			H	24.72	9.26	-4.9	29.08	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	15.73	9.11	-4.81	20.03	30.00
			H	24.49	9.11	-4.81	28.79	30.00
	1732.5	20175	V	15.45	9.13	-4.82	19.76	30.00
			H	24.57	9.13	-4.82	28.88	30.00
	1752.5	20375	V	15.43	9.11	-4.81	19.73	30.00
			H	24.37	9.11	-4.81	28.67	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	15.06	9.12	-4.82	19.36	30.00
			H	24.23	9.12	-4.82	28.53	30.00
	1732.5	20175	V	10.69	9.18	-4.84	15.03	30.00
			H	23.57	9.18	-4.84	27.91	30.00
	1752.5	20375	V	11.75	9.19	-4.86	16.08	30.00
			H	23.69	9.19	-4.86	28.02	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	10.6	9.18	-4.84	14.94	30.00
			H	23.54	9.18	-4.84	27.88	30.00
	1732.5	20175	V	11.81	9.19	-4.86	16.14	30.00
			H	23.78	9.19	-4.86	28.11	30.00
	1752.5	20375	V	13.35	9.25	-4.9	17.7	30.00
			H	25.18	9.25	-4.9	29.53	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	12.13	9.26	-4.9	16.49	30.00
			H	24.96	9.26	-4.9	29.32	30.00
	1732.5	20175	V	13.11	9.25	-4.9	17.46	30.00
			H	25.14	9.25	-4.9	29.49	30.00
	1752.5	20375	V	12	9.26	-4.9	16.36	30.00
			H	24.79	9.26	-4.9	29.15	30.00

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: 10M QPSK RB: 1,0	1715.0	20000	V	14.28	9.11	-4.81	18.58	30.00
			H	25.02	9.11	-4.81	29.32	30.00
	1732.5	20175	V	14.13	9.14	-4.83	18.44	30.00
			H	24.74	9.14	-4.83	29.05	30.00
	1750.0	20350	V	14.24	9.11	-4.81	18.54	30.00
			H	24.96	9.11	-4.81	29.26	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	14.04	9.14	-4.83	18.35	30.00
			H	24.71	9.14	-4.83	29.02	30.00
	1732.5	20175	V	13.37	9.17	1	23.54	30.00
			H	24.21	9.17	-4.84	28.54	30.00
	1750.0	20350	V	14.29	9.2	-4.86	18.63	30.00
			H	24.76	9.2	-4.86	29.1	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	13.34	9.17	-4.84	17.67	30.00
			H	24.2	9.17	-4.84	28.53	30.00
	1732.5	20175	V	13.18	9.2	-4.86	17.52	30.00
			H	24.27	9.2	-4.86	28.61	30.00
	1750.0	20350	V	14.06	9.23	-4.89	18.4	30.00
			H	25.5	9.23	-4.89	29.84	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	14.36	9.26	-4.9	18.72	30.00
			H	25.3	9.26	-4.9	29.66	30.00
	1732.5	20175	V	14.17	9.23	-4.89	18.51	30.00
			H	25.51	9.23	-4.89	29.85	30.00
	1750.0	20350	V	14.14	9.26	-4.9	18.5	30.00
			H	25.26	9.26	-4.9	29.62	30.00

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: 15M QPSK RB: 1,0	1717.5	20025	V	14.77	9.11	-4.82	19.06	30.00
			H	25.22	9.11	-4.82	29.51	30.00
	1732.5	20175	V	10.22	9.16	-4.84	14.54	30.00
			H	24.4	9.16	-4.84	28.72	30.00
	1747.5	20325	V	13.67	9.21	-4.88	18	30.00
			H	25.07	9.21	-4.88	29.4	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	10.73	9.16	-4.83	15.06	30.00
			H	24.33	9.16	-4.83	28.66	30.00
	1732.5	20175	V	13.23	9.21	-4.87	17.57	30.00
			H	25.21	9.21	-4.87	29.55	30.00
	1747.5	20325	V	12.34	9.26	-4.9	16.7	30.00
			H	25.44	9.26	-4.9	29.8	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	14.6	9.11	-4.82	18.89	30.00
			H	25.23	9.11	-4.82	29.52	30.00
	1732.5	20175	V	10.16	9.17	-4.84	14.49	30.00
			H	24.28	9.17	-4.84	28.61	30.00
	1747.5	20325	V	13.73	9.22	-4.88	18.07	30.00
			H	24.75	9.22	-4.88	29.09	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	10.93	9.16	-4.83	15.26	30.00
			H	24.32	9.16	-4.83	28.65	30.00
	1732.5	20175	V	13.23	9.21	-4.87	17.57	30.00
			H	24.74	9.21	-4.87	29.08	30.00
	1747.5	20325	V	12.59	9.26	-4.9	16.95	30.00
			H	25.22	9.26	-4.9	29.58	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: 20M QPSK RB: 1,0	1720.0	20050	V	15.69	9.11	-4.81	19.99	30.00
			H	25.15	9.11	-4.81	29.45	30.00
	1732.5	20175	V	12.8	9.16	-4.83	17.13	30.00
			H	24.58	9.16	-4.83	28.91	30.00
	1745.0	20300	V	13.12	9.2	-4.86	17.46	30.00
			H	25.12	9.2	-4.86	29.46	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	10.86	9.17	-4.84	15.19	30.00
			H	24.19	9.17	-4.84	28.52	30.00
	1732.5	20175	V	14.53	9.22	-4.88	18.87	30.00
			H	25.4	9.22	-4.88	29.74	30.00
	1745.0	20300	V	12.12	9.26	-4.9	16.48	30.00
			H	25.43	9.26	-4.9	29.79	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	15.39	9.11	-4.82	19.68	30.00
			H	24.77	9.11	-4.82	29.06	30.00
	1732.5	20175	V	12.77	9.15	-4.83	17.09	30.00
			H	24.92	9.15	-4.83	29.24	30.00
	1745.0	20300	V	12.34	9.2	-4.86	16.68	30.00
			H	24.13	9.2	-4.86	28.47	30.00
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	10.73	9.17	-4.84	15.06	30.00
			H	24.19	9.17	-4.84	28.52	30.00
	1732.5	20175	V	13.3	9.22	-4.88	17.64	30.00
			H	25.29	9.22	-4.88	29.63	30.00
	1745.0	20300	V	11.77	9.26	-4.9	16.13	30.00
			H	25.46	9.26	-4.9	29.82	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	23.86	5.48	-3.31	26.03	38.45
			H	19.43	5.48	-3.31	21.6	38.45
	836.5	20525	V	23.37	5.46	-3.34	25.49	38.45
			H	19.25	5.46	-3.34	21.37	38.45
	848.3	20643	V	22.53	5.45	-3.07	24.91	38.45
			H	17.61	5.45	-3.07	19.99	38.45
BAND 5 BW: 1.4M QPSK RB: 1,5	824.7	20407	V	23.89	5.48	-3.22	26.15	38.45
			H	19.22	5.48	-3.22	21.48	38.45
	836.5	20525	V	23.42	5.46	-3.26	25.62	38.45
			H	19	5.46	-3.26	21.2	38.45
	848.3	20643	V	22.76	5.44	-3.12	25.08	38.45
			H	17.52	5.44	-3.12	19.84	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,0	824.7	20407	V	23.64	5.48	-3.32	25.8	38.45
			H	18.81	5.48	-3.32	20.97	38.45
	836.5	20525	V	23.25	5.46	-3.34	25.37	38.45
			H	19.3	5.46	-3.34	21.42	38.45
	848.3	20643	V	22.44	5.45	-3.07	24.82	38.45
			H	17.36	5.45	-3.07	19.74	38.45
BAND 5 BW: 1.4M 16QAM RB: 1,5	824.7	20407	V	23.55	5.48	-3.22	25.81	38.45
			H	19.09	5.48	-3.22	21.35	38.45
	836.5	20525	V	22.76	5.46	-3.26	24.96	38.45
			H	18.99	5.46	-3.26	21.19	38.45
	848.3	20643	V	22.49	5.45	-3.09	24.85	38.45
			H	17.49	5.45	-3.09	19.85	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: 3M QPSK RB: 1,0	825.5	20415	V	23.7	5.48	-3.36	25.82	38.45
			H	19.27	5.48	-3.36	21.39	38.45
	836.5	20525	V	23.47	5.47	-3.35	25.59	38.45
			H	19.1	5.47	-3.35	21.22	38.45
	847.5	20635	V	23.26	5.45	-3.38	25.33	38.45
			H	18.15	5.45	-3.38	20.22	38.45
BAND 5 BW: 3M QPSK RB: 1,14	825.5	20415	V	23.68	5.48	-3.2	25.96	38.45
			H	19.07	5.48	-3.2	21.35	38.45
	836.5	20525	V	23.14	5.46	-3.19	25.41	38.45
			H	18.69	5.46	-3.19	20.96	38.45
	847.5	20635	V	22.51	5.45	-3.31	24.65	38.45
			H	18.09	5.45	-3.31	20.23	38.45
BAND 5 BW: 3M 16QAM RB: 1,0	825.5	20415	V	23.61	5.48	-3.36	25.73	38.45
			H	19.36	5.48	-3.36	21.48	38.45
	836.5	20525	V	23.32	5.47	-3.35	25.44	38.45
			H	18.93	5.47	-3.35	21.05	38.45
	847.5	20635	V	22.97	5.45	-3.36	25.06	38.45
			H	17.83	5.45	-3.36	19.92	38.45
BAND 5 BW: 3M 16QAM RB: 1,14	825.5	20415	V	23.34	5.48	-3.2	25.62	38.45
			H	18.84	5.48	-3.2	21.12	38.45
	836.5	20525	V	22.91	5.46	-3.19	25.18	38.45
			H	18.39	5.46	-3.19	20.66	38.45
	847.5	20635	V	22.15	5.45	-3.08	24.52	38.45
			H	17.17	5.45	-3.08	19.54	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	23.75	5.48	-3.33	25.9	38.45
			H	19.14	5.48	-3.33	21.29	38.45
	836.5	20525	V	23.57	5.47	-3.37	25.67	38.45
			H	19.15	5.47	-3.37	21.25	38.45
	846.5	20625	V	23.38	5.45	-3.45	25.38	38.45
			H	18.74	5.45	-3.45	20.74	38.45
BAND 5 BW: 5M QPSK RB: 1,24	826.5	20425	V	23.57	5.48	-3.16	25.89	38.45
			H	19	5.48	-3.16	21.32	38.45
	836.5	20525	V	22.59	5.46	-3.12	24.93	38.45
			H	18.52	5.46	-3.12	20.86	38.45
	846.5	20625	V	22.48	5.45	-3.08	24.85	38.45
			H	17.36	5.45	-3.08	19.73	38.45
BAND 5 BW: 5M 16QAM RB: 1,0	826.5	20425	V	23.87	5.48	-3.33	26.02	38.45
			H	18.82	5.48	-3.33	20.97	38.45
	836.5	20525	V	23.39	5.47	-3.4	25.46	38.45
			H	19.23	5.47	-3.4	21.3	38.45
	846.5	20625	V	23.17	5.45	-3.46	25.16	38.45
			H	18.76	5.45	-3.46	20.75	38.45
BAND 5 BW: 5M 16QAM RB: 1,24	826.5	20425	V	23.47	5.47	-3.16	25.78	38.45
			H	18.95	5.47	-3.16	21.26	38.45
	836.5	20525	V	22.64	5.46	-3.12	24.98	38.45
			H	18.01	5.46	-3.12	20.35	38.45
	846.5	20625	V	22.33	5.45	-3.09	24.69	38.45
			H	17.18	5.45	-3.09	19.54	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: 10M QPSK RB: 1,0	829.0	20450	V	23.93	5.48	-3.3	26.11	38.45
			H	18.97	5.48	-3.3	21.15	38.45
	836.5	20525	V	23.73	5.47	-3.5	25.7	38.45
			H	19.54	5.47	-3.5	21.51	38.45
	844.0	20600	V	22.57	5.46	-3.16	24.87	38.45
			H	18.26	5.46	-3.16	20.56	38.45
BAND 5 BW: 10M QPSK RB: 1,49	829.0	20450	V	23.53	5.47	-3.44	25.56	38.45
			H	19.31	5.47	-3.44	21.34	38.45
	836.5	20525	V	22.86	5.46	-3.48	24.84	38.45
			H	18.74	5.46	-3.48	20.72	38.45
	844.0	20600	V	22.14	5.45	-3.07	24.52	38.45
			H	17.22	5.45	-3.07	19.6	38.45
BAND 5 BW: 10M 16QAM RB: 1,0	829.0	20450	V	23.68	5.48	-3.27	25.89	38.45
			H	18.64	5.48	-3.27	20.85	38.45
	836.5	20525	V	23.56	5.47	-3.46	25.57	38.45
			H	19.14	5.47	-3.46	21.15	38.45
	844.0	20600	V	22.31	5.46	-3.14	24.63	38.45
			H	18.31	5.46	-3.14	20.63	38.45
BAND 5 BW: 10M 16QAM RB: 1,49	829.0	20450	V	23.22	5.47	-3.45	25.24	38.45
			H	19.31	5.47	-3.45	21.33	38.45
	836.5	20525	V	22.5	5.46	-3.47	24.49	38.45
			H	18.46	5.46	-3.47	20.45	38.45
	844.0	20600	V	22.15	5.45	-3.07	24.53	38.45
			H	17.34	5.45	-3.07	19.72	38.45

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 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	15.34	5.45	-3.16	17.63	34.77
			H	14.33	5.45	-3.16	16.62	34.77
	707.5	23095	V	15.32	5.46	-3.22	17.56	34.77
			H	13.99	5.46	-3.22	16.23	34.77
	715.3	23173	V	16.51	5.46	-2.9	19.07	34.77
			H	14.52	5.46	-2.9	17.08	34.77
BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	15.81	5.46	-3	18.27	34.77
			H	14.61	5.46	-3	17.07	34.77
	707.5	23095	V	15.59	5.46	-3.23	17.82	34.77
			H	14.17	5.46	-3.23	16.4	34.77
	715.3	23173	V	16.22	5.46	-3.05	18.63	34.77
			H	14.48	5.46	-3.05	16.89	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	15.08	5.45	-3.1	17.43	34.77
			H	14.31	5.45	-3.1	16.66	34.77
	707.5	23095	V	15.32	5.46	-3.22	17.56	34.77
			H	14.05	5.46	-3.22	16.29	34.77
	715.3	23173	V	16.49	5.46	-2.94	19.01	34.77
			H	14.43	5.46	-2.94	16.95	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	15.32	5.46	-3.05	17.73	34.77
			H	14.28	5.46	-3.05	16.69	34.77
	707.5	23095	V	15.17	5.46	-3.22	17.41	34.77
			H	13.9	5.46	-3.22	16.14	34.77
	715.3	23173	V	16.37	5.46	-3.08	18.75	34.77
			H	14.22	5.46	-3.08	16.6	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 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	15.02	5.45	-3.14	17.33	34.77
			H	14.42	5.45	-3.14	16.73	34.77
	707.5	23095	V	15.01	5.46	-3.13	17.34	34.77
			H	13.91	5.46	-3.13	16.24	34.77
	714.5	23165	V	16.8	5.46	-2.89	19.37	34.77
			H	15	5.46	-2.89	17.57	34.77
BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	15.71	5.46	-3	18.17	34.77
			H	14.83	5.46	-3	17.29	34.77
	707.5	23095	V	15.65	5.46	-3.15	17.96	34.77
			H	14.19	5.46	-3.15	16.5	34.77
	714.5	23165	V	16.7	5.46	-3.15	19.01	34.77
			H	14.17	5.46	-3.15	16.48	34.77
BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	15.07	5.45	-3.13	17.39	34.77
			H	14.26	5.45	-3.13	16.58	34.77
	707.5	23095	V	14.95	5.46	-3.09	17.32	34.77
			H	13.47	5.46	-3.09	15.84	34.77
	714.5	23165	V	16.45	5.46	-2.97	18.94	34.77
			H	14.5	5.46	-2.97	16.99	34.77
BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	15.53	5.46	-3	17.99	34.77
			H	14.69	5.46	-3	17.15	34.77
	707.5	23095	V	15.54	5.46	-3.2	17.8	34.77
			H	14.02	5.46	-3.2	16.28	34.77
	714.5	23165	V	16.57	5.46	-3.11	18.92	34.77
			H	14.09	5.46	-3.11	16.44	34.77

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 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	13.28	5.44	-3.24	15.48	34.77
			H	11.91	5.44	-3.24	14.11	34.77
	707.5	23095	V	13.26	5.46	-3.01	15.71	34.77
			H	11.33	5.46	-3.01	13.78	34.77
	713.5	23155	V	14.56	5.46	-3.06	16.96	34.77
			H	12.65	5.46	-3.06	15.05	34.77
BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	13.54	5.46	-2.99	16.01	34.77
			H	11.75	5.46	-2.99	14.22	34.77
	707.5	23095	V	13.74	5.46	-3.11	16.09	34.77
			H	11.8	5.46	-3.11	14.15	34.77
	713.5	23155	V	14.53	5.46	-2.99	17	34.77
			H	12.1	5.46	-2.99	14.57	34.77
BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	12.86	5.45	-3.14	15.17	34.77
			H	11.65	5.45	-3.14	13.96	34.77
	707.5	23095	V	13.15	5.46	-3.03	15.58	34.77
			H	11.31	5.46	-3.03	13.74	34.77
	713.5	23155	V	14.46	5.46	-3.06	16.86	34.77
			H	12.05	5.46	-3.06	14.45	34.77
BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	13.85	5.46	-3	16.31	34.77
			H	11.99	5.46	-3	14.45	34.77
	707.5	23095	V	13.66	5.46	-3.13	15.99	34.77
			H	11.82	5.46	-3.13	14.15	34.77
	713.5	23155	V	14.67	5.46	-3	17.13	34.77
			H	12.1	5.46	-3	14.56	34.77

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 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	10.11	5.45	-3.14	12.42	34.77
			H	11.6	5.45	-3.14	13.91	34.77
	707.5	23095	V	11.15	5.46	-3.03	13.58	34.77
			H	11.99	5.46	-3.03	14.42	34.77
	711.0	23130	V	10.74	5.46	-3.13	13.07	34.77
			H	11.4	5.46	-3.13	13.73	34.77
BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	11.39	5.46	-3.21	13.64	34.77
			H	11.87	5.46	-3.21	14.12	34.77
	707.5	23095	V	12.01	5.46	-3.07	14.4	34.77
			H	12.37	5.46	-3.07	14.76	34.77
	711.0	23130	V	12.67	5.46	-3.11	15.02	34.77
			H	12.32	5.46	-3.11	14.67	34.77
BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	10	5.45	-3.08	12.37	34.77
			H	11.58	5.45	-3.08	13.95	34.77
	707.5	23095	V	11.12	5.46	-3.02	13.56	34.77
			H	11.9	5.46	-3.02	14.34	34.77
	711.0	23130	V	10.45	5.46	-3.18	12.73	34.77
			H	11.37	5.46	-3.18	13.65	34.77
BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	11.06	5.46	-3.21	13.31	34.77
			H	11.69	5.46	-3.21	13.94	34.77
	707.5	23095	V	12.25	5.46	-3.06	14.65	34.77
			H	12.45	5.46	-3.06	14.85	34.77
	711.0	23130	V	12.61	5.46	-3.09	14.98	34.77
			H	12.07	5.46	-3.09	14.44	34.77

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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 25 BW: 1.4M/ QPSK RB: 1,0	1850.7	26047	V	16.86	9.59	-5.04	21.41	33.00
			H	26.59	9.59	-5.04	31.14	33.00
	1882.5	26365	V	15.54	9.7	-5.16	20.08	33.00
			H	27.61	9.7	-5.16	32.15	33.00
	1914.3	26683	V	13.05	9.8	-5.14	17.71	33.00
			H	27.22	9.8	-5.14	31.88	33.00
BAND 25 BW: 1.4M QPSK RB: 1,5	1850.7	26047	V	16.41	9.59	-5.04	20.96	33.00
			H	26.61	9.59	-5.04	31.16	33.00
	1882.5	26365	V	15.75	9.7	-5.17	20.28	33.00
			H	27.41	9.7	-5.17	31.94	33.00
	1914.3	26683	V	13.04	9.81	-5.14	17.71	33.00
			H	27.26	9.81	-5.14	31.93	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,0	1850.7	26047	V	16.62	9.59	-5.04	21.17	33.00
			H	26.6	9.59	-5.04	31.15	33.00
	1882.5	26365	V	15.24	9.7	-5.16	19.78	33.00
			H	27.56	9.7	-5.16	32.1	33.00
	1914.3	26683	V	12.75	9.8	-5.14	17.41	33.00
			H	27.26	9.8	-5.14	31.92	33.00
BAND 25 BW: 1.4M 16QAM RB: 1,5	1850.7	26047	V	16.3	9.59	-5.04	20.85	33.00
			H	26.36	9.59	-5.04	30.91	33.00
	1882.5	26365	V	15.56	9.7	-5.17	20.09	33.00
			H	27.24	9.7	-5.17	31.77	33.00
	1914.3	26683	V	12.77	9.8	-5.14	17.43	33.00
			H	26.87	9.8	-5.14	31.53	33.00

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 25 BW: 3M QPSK RB: 1,0	1851.5	26055	V	14.68	9.59	-5.04	19.23	33.00
			H	26.39	9.59	-5.04	30.94	33.00
	1882.5	26365	V	17.57	9.69	-5.16	22.1	33.00
			H	27.4	9.69	-5.16	31.93	33.00
	1913.5	26675	V	16.65	9.8	-5.13	21.32	33.00
			H	27.29	9.8	-5.13	31.96	33.00
BAND 25 BW: 3M QPSK RB: 1,14	1851.5	26055	V	14.88	9.6	-5.05	19.43	33.00
			H	26.3	9.6	-5.05	30.85	33.00
	1882.5	26365	V	17.63	9.7	-5.17	22.16	33.00
			H	27.22	9.7	-5.17	31.75	33.00
	1913.5	26675	V	15.68	9.8	-5.14	20.34	33.00
			H	27.14	9.8	-5.14	31.8	33.00
BAND 25 BW: 3M 16QAM RB: 1,0	1851.5	26055	V	14.72	9.59	-5.04	19.27	33.00
			H	26.28	9.59	-5.04	30.83	33.00
	1882.5	26365	V	17.32	9.69	-5.16	21.85	33.00
			H	27.15	9.69	-5.16	31.68	33.00
	1913.5	26675	V	16.16	9.8	-5.13	20.83	33.00
			H	27.22	9.8	-5.13	31.89	33.00
BAND 25 BW: 3M 16QAM RB: 1,14	1851.5	26055	V	14.77	9.6	-5.05	19.32	33.00
			H	26.3	9.6	-5.05	30.85	33.00
	1882.5	26365	V	17.68	9.7	-5.17	22.21	33.00
			H	27.28	9.7	-5.17	31.81	33.00
	1913.5	26675	V	15.4	9.81	-5.14	20.07	33.00
			H	26.8	9.81	-5.14	31.47	33.00

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 25 BW: 5M QPSK RB: 1,0	1852.5	26065	V	16.53	9.59	-5.04	21.08	33.00
			H	25.93	9.59	-5.04	30.48	33.00
	1882.5	26365	V	16.25	9.69	-5.15	20.79	33.00
			H	27.28	9.69	-5.15	31.82	33.00
	1912.5	26665	V	13.58	9.79	-5.13	18.24	33.00
			H	26.67	9.79	-5.13	31.33	33.00
BAND 25 BW: 5M QPSK RB: 1,24	1852.5	26065	V	16.26	9.6	-5.05	20.81	33.00
			H	26.16	9.6	-5.05	30.71	33.00
	1882.5	26365	V	16.15	9.7	-5.17	20.68	33.00
			H	27	9.7	-5.17	31.53	33.00
	1912.5	26665	V	12.33	9.81	-5.14	17	33.00
			H	26.91	9.81	-5.14	31.58	33.00
BAND 25 BW: 5M 16QAM RB: 1,0	1852.5	26065	V	16.68	9.59	-5.04	21.23	33.00
			H	26.17	9.59	-5.04	30.72	33.00
	1882.5	26365	V	16.17	9.69	-5.16	20.7	33.00
			H	27.12	9.69	-5.16	31.65	33.00
	1912.5	26665	V	13.21	9.79	-5.13	17.87	33.00
			H	26.42	9.79	-5.13	31.08	33.00
BAND 25 BW: 5M 16QAM RB: 1,24	1852.5	26065	V	16.32	9.6	-5.05	20.87	33.00
			H	26.1	9.6	-5.05	30.65	33.00
	1882.5	26365	V	16.03	9.7	-5.17	20.56	33.00
			H	27.16	9.7	-5.17	31.69	33.00
	1912.5	26665	V	12.13	9.81	-5.14	16.8	33.00
			H	26.62	9.81	-5.14	31.29	33.00

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 25 BW: 10M QPSK RB: 1,0	1855.0	26090	V	17.16	9.59	-5.04	21.71	33.00
			H	26.09	9.59	-5.04	30.64	33.00
	1882.5	26365	V	15.92	9.68	-5.14	20.46	33.00
			H	27.05	9.68	-5.14	31.59	33.00
	1910.0	26640	V	15.11	9.77	-5.11	19.77	33.00
			H	27.03	9.77	-5.11	31.69	33.00
BAND 25 BW: 10M QPSK RB: 1,49	1855.0	26090	V	15.48	9.62	-5.06	20.04	33.00
			H	26.53	9.62	-5.06	31.09	33.00
	1882.5	26365	V	15.8	9.71	-5.16	20.35	33.00
			H	26.65	9.71	-5.16	31.2	33.00
	1910.0	26640	V	12.35	9.8	-5.14	17.01	33.00
			H	26.69	9.8	-5.14	31.35	33.00
BAND 25 BW: 10M 16QAM RB: 1,0	1855.0	26090	V	16.46	9.59	-5.04	21.01	33.00
			H	25.97	9.59	-5.04	30.52	33.00
	1882.5	26365	V	15.92	9.68	-5.14	20.46	33.00
			H	27.08	9.68	-5.14	31.62	33.00
	1910.0	26640	V	14.75	9.77	-5.11	19.41	33.00
			H	26.83	9.77	-5.11	31.49	33.00
BAND 25 BW: 10M 16QAM RB: 1,49	1855.0	26090	V	15.55	9.62	-5.06	20.11	33.00
			H	26.36	9.62	-5.06	30.92	33.00
	1882.5	26365	V	15.75	9.71	-5.16	20.3	33.00
			H	26.74	9.71	-5.16	31.29	33.00
	1910.0	26640	V	12.45	9.8	-5.14	17.11	33.00
			H	27	9.8	-5.14	31.66	33.00

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 25 BW: 15M QPSK RB: 1,0	1857.5	26115	V	16.76	9.59	-5.04	21.31	33.00
			H	25.93	9.59	-5.04	30.48	33.00
	1882.5	26365	V	14.88	9.67	-5.13	19.42	33.00
			H	26.97	9.67	-5.13	31.51	33.00
	1907.5	26615	V	15.35	9.76	-5.1	20.01	33.00
			H	27.09	9.76	-5.1	31.75	33.00
BAND 25 BW: 15M QPSK RB: 1,74	1857.5	26115	V	14.35	9.63	-5.07	18.91	33.00
			H	26.69	9.63	-5.07	31.25	33.00
	1882.5	26365	V	14.98	9.72	-5.15	19.55	33.00
			H	26.47	9.72	-5.15	31.04	33.00
	1907.5	26615	V	11.87	9.8	-5.14	16.53	33.00
			H	26.46	9.8	-5.14	31.12	33.00
BAND 25 BW: 15M 16QAM RB: 1,0	1857.5	26115	V	16.85	9.59	-5.04	21.4	33.00
			H	25.78	9.59	-5.04	30.33	33.00
	1882.5	26365	V	14.59	9.68	-5.13	19.14	33.00
			H	26.88	9.68	-5.13	31.43	33.00
	1907.5	26615	V	15.04	9.76	-5.1	19.7	33.00
			H	26.92	9.76	-5.1	31.58	33.00
BAND 25 BW: 15M 16QAM RB: 1,74	1857.5	26115	V	14.07	9.63	-5.07	18.63	33.00
			H	26.36	9.63	-5.07	30.92	33.00
	1882.5	26365	V	14.66	9.72	-5.15	19.23	33.00
			H	26.72	9.72	-5.15	31.29	33.00
	1907.5	26615	V	11.74	9.8	-5.14	16.4	33.00
			H	26.2	9.8	-5.14	30.86	33.00

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 25 BW: 20M QPSK RB: 1,0	1860.0	26140	V	17.61	9.59	-5.04	22.16	33.00
			H	25.59	9.59	-5.04	30.14	33.00
	1882.5	26365	V	18.79	9.67	-5.11	23.35	33.00
			H	26.24	9.67	-5.11	30.8	33.00
	1905.0	26590	V	20.37	9.74	-5.12	24.99	33.00
			H	25.96	9.74	-5.12	30.58	33.00
BAND 25 BW: 20M QPSK RB: 1,99	1860.0	26140	V	18.75	9.65	-5.08	23.32	33.00
			H	26.04	9.65	-5.08	30.61	33.00
	1882.5	26365	V	19.93	9.73	-5.14	24.52	33.00
			H	26.02	9.73	-5.14	30.61	33.00
	1905.0	26590	V	20.61	9.8	-5.14	25.27	33.00
			H	25.3	9.8	-5.14	29.96	33.00
BAND 25 BW: 20M 16QAM RB: 1,0	1860.0	26140	V	17.39	9.59	-5.04	21.94	33.00
			H	25.65	9.59	-5.04	30.2	33.00
	1882.5	26365	V	18.81	9.67	-5.11	23.37	33.00
			H	26.36	9.67	-5.11	30.92	33.00
	1905.0	26590	V	19.99	9.74	-5.12	24.61	33.00
			H	25.76	9.74	-5.12	30.38	33.00
BAND 25 BW: 20M 16QAM RB: 1,99	1860.0	26140	V	18.36	9.65	-5.08	22.93	33.00
			H	25.36	9.65	-5.08	29.93	33.00
	1882.5	26365	V	19.7	9.73	-5.14	24.29	33.00
			H	25.79	9.73	-5.14	30.38	33.00
	1905.0	26590	V	20.46	9.8	-5.14	25.12	33.00
			H	25.16	9.8	-5.14	29.82	33.00

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 26 BW: 1.4M QPSK RB: 1,0	824.7	26797	V	23.41	5.48	-3.35	25.54	38.50
			H	17.47	5.48	-3.35	19.6	38.50
	836.5	26915	V	22.88	5.46	-3.34	25	38.50
			H	16.08	5.46	-3.34	18.2	38.50
	848.3	27033	V	22.93	5.45	-3.09	25.29	38.50
			H	14.08	5.45	-3.09	16.44	38.50
BAND 26 BW: 1.4M QPSK RB: 1,5	824.7	26797	V	23.24	5.48	-3.25	25.47	38.50
			H	16.9	5.48	-3.25	19.13	38.50
	836.5	26915	V	23.02	5.46	-3.27	25.21	38.50
			H	16.13	5.46	-3.27	18.32	38.50
	848.3	27033	V	22.43	5.45	-3.07	24.81	38.50
			H	13.85	5.45	-3.07	16.23	38.50
BAND 26 BW: 1.4M 16QAM RB: 1,0	824.7	26797	V	23.37	5.48	-3.32	25.53	38.50
			H	16.73	5.48	-3.32	18.89	38.50
	836.5	26915	V	22.99	5.46	-3.35	25.1	38.50
			H	16.14	5.46	-3.35	18.25	38.50
	848.3	27033	V	22.37	5.44	-3.13	24.68	38.50
			H	14.19	5.44	-3.13	16.5	38.50
BAND 26 BW: 1.4M 16QAM RB: 1,5	824.7	26797	V	23	5.48	-3.22	25.26	38.50
			H	16.75	5.48	-3.22	19.01	38.50
	836.5	26915	V	22.34	5.46	-3.28	24.52	38.50
			H	15.81	5.46	-3.28	17.99	38.50
	848.3	27033	V	22.88	5.44	-3.15	25.17	38.50
			H	13.7	5.44	-3.15	15.99	38.50

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 26 BW: 3M QPSK RB: 1,0	825.5	26805	V	23.11	5.48	-3.31	25.28	38.50
			H	18.31	5.48	-3.31	20.48	38.50
	836.5	26915	V	23.01	5.46	-3.35	25.12	38.50
			H	18.69	5.46	-3.35	20.8	38.50
	847.5	27025	V	23.1	5.45	-3.33	25.22	38.50
			H	17.84	5.45	-3.33	19.96	38.50
BAND 26 BW: 3M QPSK RB: 1,14	825.5	26805	V	22.88	5.47	-3.16	25.19	38.50
			H	18.55	5.47	-3.16	20.86	38.50
	836.5	26915	V	22.8	5.46	-3.2	25.06	38.50
			H	18.32	5.46	-3.2	20.58	38.50
	847.5	27025	V	23.09	5.45	-3.08	25.46	38.50
			H	16.97	5.45	-3.08	19.34	38.50
BAND 26 BW: 3M 16QAM RB: 1,0	825.5	26805	V	22.76	5.48	-3.32	24.92	38.50
			H	18.43	5.48	-3.32	20.59	38.50
	836.5	26915	V	22.59	5.47	-3.36	24.7	38.50
			H	18.53	5.47	-3.36	20.64	38.50
	847.5	27025	V	23.06	5.45	-3.26	25.25	38.50
			H	17.45	5.45	-3.26	19.64	38.50
BAND 26 BW: 3M 16QAM RB: 1,14	825.5	26805	V	22.58	5.48	-3.21	24.85	38.50
			H	18.26	5.48	-3.21	20.53	38.50
	836.5	26915	V	22.72	5.46	-3.19	24.99	38.50
			H	18.46	5.46	-3.19	20.73	38.50
	847.5	27025	V	22.56	5.44	-3.19	24.81	38.50
			H	17.05	5.44	-3.19	19.3	38.50

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 26 BW: 5M QPSK RB: 1,0	826.5	26815	V	23.03	5.48	-3.3	25.21	38.50
			H	18.48	5.48	-3.3	20.66	38.50
	836.5	26915	V	23.02	5.47	-3.38	25.11	38.50
			H	18.65	5.47	-3.38	20.74	38.50
	846.5	27015	V	23.22	5.45	-3.46	25.21	38.50
			H	18.02	5.45	-3.46	20.01	38.50
BAND 26 BW: 5M QPSK RB: 1,24	826.5	26815	V	23.06	5.48	-3.21	25.33	38.50
			H	18.66	5.48	-3.21	20.93	38.50
	836.5	26915	V	22.12	5.46	-3.16	24.42	38.50
			H	17.97	5.46	-3.16	20.27	38.50
	846.5	27015	V	22.71	5.45	-3.07	25.09	38.50
			H	16.91	5.45	-3.07	19.29	38.50
BAND 26 BW: 5M 16QAM RB: 1,0	826.5	26815	V	22.98	5.48	-3.33	25.13	38.50
			H	18.44	5.48	-3.33	20.59	38.50
	836.5	26915	V	23.21	5.47	-3.39	25.29	38.50
			H	18.33	5.47	-3.39	20.41	38.50
	846.5	27015	V	23.3	5.45	-3.46	25.29	38.50
			H	18.16	5.45	-3.46	20.15	38.50
BAND 26 BW: 5M 16QAM RB: 1,24	826.5	26815	V	22.78	5.47	-3.16	25.09	38.50
			H	18.27	5.47	-3.16	20.58	38.50
	836.5	26915	V	22.79	5.46	-3.12	25.13	38.50
			H	18.22	5.46	-3.12	20.56	38.50
	846.5	27015	V	22.91	5.45	-3.08	25.28	38.50
			H	16.45	5.45	-3.08	18.82	38.50

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 26 BW: 10M QPSK RB: 1,0	829.0	26840	V	22.95	5.48	-3.25	25.18	38.50
			H	18.52	5.48	-3.25	20.75	38.50
	836.5	26915	V	23.37	5.47	-3.51	25.33	38.50
			H	19.32	5.47	-3.51	21.28	38.50
	844.0	26990	V	22.5	5.46	-3.12	24.84	38.50
			H	17.98	5.46	-3.12	20.32	38.50
BAND 26 BW: 10M QPSK RB: 1,49	829.0	26840	V	23.28	5.47	-3.48	25.27	38.50
			H	18.67	5.47	-3.48	20.66	38.50
	836.5	26915	V	23.24	5.46	-3.45	25.25	38.50
			H	18.23	5.46	-3.45	20.24	38.50
	844.0	26990	V	22.83	5.45	-3.07	25.21	38.50
			H	17.48	5.45	-3.07	19.86	38.50
BAND 26 BW: 10M 16QAM RB: 1,0	829.0	26840	V	22.69	5.48	-3.28	24.89	38.50
			H	18.31	5.48	-3.28	20.51	38.50
	836.5	26915	V	23.17	5.47	-3.5	25.14	38.50
			H	19.23	5.47	-3.5	21.2	38.50
	844.0	26990	V	22.33	5.46	-3.14	24.65	38.50
			H	17.81	5.46	-3.14	20.13	38.50
BAND 26 BW: 10M 16QAM RB: 1,49	829.0	26840	V	22.92	5.47	-3.47	24.92	38.50
			H	19.36	5.47	-3.47	21.36	38.50
	836.5	26915	V	22.6	5.46	-3.47	24.59	38.50
			H	17.7	5.46	-3.47	19.69	38.50
	844.0	26990	V	22.54	5.45	-3.07	24.92	38.50
			H	16.88	5.45	-3.07	19.26	38.50

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 26 BW: 15M QPSK RB: 1,0	831.5	26865	V	23.1	5.48	-3.24	25.34	38.50
			H	18.72	5.48	-3.24	20.96	38.50
	836.5	26915	V	23.46	5.47	-3.23	25.7	38.50
			H	19.04	5.47	-3.23	21.28	38.50
	841.5	26965	V	23.16	5.47	-3.36	25.27	38.50
			H	18.79	5.47	-3.36	20.9	38.50
BAND 26 BW: 15M QPSK RB: 1,74	831.5	26865	V	22.97	5.46	-3.12	25.31	38.50
			H	18.06	5.46	-3.12	20.4	38.50
	836.5	26915	V	23.04	5.45	-3.43	25.06	38.50
			H	18.21	5.45	-3.43	20.23	38.50
	841.5	26965	V	22.75	5.45	-3.07	25.13	38.50
			H	17.2	5.45	-3.07	19.58	38.50
BAND 26 BW: 15M 16QAM RB: 1,0	831.5	26865	V	23.24	5.48	-3.26	25.46	38.50
			H	18.39	5.48	-3.26	20.61	38.50
	836.5	26915	V	23.06	5.47	-3.25	25.28	38.50
			H	18.53	5.47	-3.25	20.75	38.50
	841.5	26965	V	22.78	5.47	-3.37	24.88	38.50
			H	18.46	5.47	-3.37	20.56	38.50
BAND 26 BW: 15M 16QAM RB: 1,74	831.5	26865	V	22.64	5.46	-3.12	24.98	38.50
			H	17.97	5.46	-3.12	20.31	38.50
	836.5	26915	V	22.87	5.45	-3.43	24.89	38.50
			H	17.97	5.45	-3.43	19.99	38.50
	841.5	26965	V	22.34	5.45	-3.09	24.7	38.50
			H	16.97	5.45	-3.09	19.33	38.50

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 41 BW: 5M QPSK RB: 1,0	2498.5	39675	V	22.26	10.48	-5.91	26.83	33.01
			H	21.15	10.48	-5.91	25.72	33.01
	2593.0	40620	V	23.93	10.57	-6.01	28.49	33.01
			H	21.32	10.57	-6.01	25.88	33.01
	2687.5	41565	V	24.36	10.67	-6.08	28.95	33.01
			H	22.26	10.67	-6.08	26.85	33.01
BAND 41 BW: 5M QPSK RB: 1,24	2498.5	39675	V	22.25	10.48	-5.92	26.81	33.01
			H	20.69	10.48	-5.92	25.25	33.01
	2593.0	40620	V	23.83	10.58	-6.01	28.4	33.01
			H	21.6	10.58	-6.01	26.17	33.01
	2687.5	41565	V	23.88	10.67	-6.08	28.47	33.01
			H	21.59	10.67	-6.08	26.18	33.01
BAND 41 BW: 5M 16QAM RB: 1,0	2498.5	39675	V	21.23	10.48	-5.91	25.8	33.01
			H	20.43	10.48	-5.91	25	33.01
	2593.0	40620	V	23.13	10.57	-6.01	27.69	33.01
			H	20.63	10.57	-6.01	25.19	33.01
	2687.5	41565	V	23.23	10.67	-6.08	27.82	33.01
			H	21.04	10.67	-6.08	25.63	33.01
BAND 41 BW: 5M 16QAM RB: 1,24	2498.5	39675	V	21.17	10.48	-5.91	25.74	33.01
			H	19.72	10.48	-5.91	24.29	33.01
	2593.0	40620	V	22.92	10.58	-6.01	27.49	33.01
			H	20.8	10.58	-6.01	25.37	33.01
	2687.5	41565	V	22.76	10.67	-6.08	27.35	33.01
			H	20.86	10.67	-6.08	25.45	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 41 BW: 10M QPSK RB: 1,0	2501.0	39700	V	22.54	10.48	-5.91	27.11	33.01
			H	22.25	10.48	-5.91	26.82	33.01
	2593.0	40620	V	24.95	10.57	-6.01	29.51	33.01
			H	21.57	10.57	-6.01	26.13	33.01
	2685.0	41540	V	24.89	10.66	-6.07	29.48	33.01
			H	22.13	10.66	-6.07	26.72	33.01
BAND 41 BW: 10M QPSK RB: 1,49	2501.0	39700	V	22.28	10.49	-5.93	26.84	33.01
			H	22.19	10.49	-5.93	26.75	33.01
	2593.0	40620	V	24.55	10.58	-6.01	29.12	33.01
			H	22.1	10.58	-6.01	26.67	33.01
	2685.0	41540	V	24.42	10.67	-6.08	29.01	33.01
			H	21.7	10.67	-6.08	26.29	33.01
BAND 41 BW: 10M 16QAM RB: 1,0	2501.0	39700	V	22.09	10.48	-5.91	26.66	33.01
			H	22.25	10.48	-5.91	26.82	33.01
	2593.0	40620	V	24.25	10.57	-6.01	28.81	33.01
			H	20.68	10.57	-6.01	25.24	33.01
	2685.0	41540	V	23.93	10.66	-6.07	28.52	33.01
			H	21.2	10.66	-6.07	25.79	33.01
BAND 41 BW: 10M 16QAM RB: 1,49	2501.0	39700	V	22.24	10.49	-5.94	26.79	33.01
			H	21.49	10.49	-5.94	26.04	33.01
	2593.0	40620	V	23.9	10.58	-6.01	28.47	33.01
			H	21.44	10.58	-6.01	26.01	33.01
	2685.0	41540	V	23.25	10.67	-6.08	27.84	33.01
			H	20.6	10.67	-6.08	25.19	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 41 BW: 15M QPSK RB: 1,0	2503.5	39725	V	21.45	10.48	-5.91	26.02	33.01
			H	20.93	10.48	-5.91	25.5	33.01
	2593.0	40620	V	23.58	10.56	-6	28.14	33.01
			H	20.68	10.56	-6	25.24	33.01
	2682.5	41515	V	24.29	10.65	-6.06	28.88	33.01
			H	20.81	10.65	-6.06	25.4	33.01
BAND 41 BW: 15M QPSK RB: 1,74	2503.5	39725	V	21.47	10.5	-5.95	26.02	33.01
			H	20.1	10.5	-5.95	24.65	33.01
	2593.0	40620	V	23.42	10.59	-6.01	28	33.01
			H	20.89	10.59	-6.01	25.47	33.01
	2682.5	41515	V	23.73	10.67	-6.08	28.32	33.01
			H	19.82	10.67	-6.08	24.41	33.01
BAND 41 BW: 15M QPSK RB: 1,0	2503.5	39725	V	20.84	10.48	-5.91	25.41	33.01
			H	19.64	10.48	-5.91	24.21	33.01
	2593.0	40620	V	23.25	10.56	-6	27.81	33.01
			H	19.9	10.56	-6	24.46	33.01
	2682.5	41515	V	23.53	10.65	-6.06	28.12	33.01
			H	20.32	10.65	-6.06	24.91	33.01
BAND 41 BW: 15M QPSK RB: 1,74	2503.5	39725	V	21.13	10.5	-5.95	25.68	33.01
			H	19.34	10.5	-5.95	23.89	33.01
	2593.0	40620	V	22.72	10.59	-6.01	27.3	33.01
			H	19.85	10.59	-6.01	24.43	33.01
	2682.5	41515	V	22.83	10.68	-6.08	27.43	33.01
			H	19.94	10.68	-6.08	24.54	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 41 BW: 20M QPSK RB: 1,0	2506.0	39750	V	22.34	10.48	-5.91	26.91	33.01
			H	22.67	10.48	-5.91	27.24	33.01
	2593.0	40620	V	24.46	10.56	-6	29.02	33.01
			H	22.72	10.56	-6	27.28	33.01
	2680.0	41490	V	24.81	10.64	-6.05	29.4	33.01
			H	23.21	10.64	-6.05	27.8	33.01
BAND 41 BW: 20M QPSK RB: 1,99	2506.0	39750	V	23.04	10.51	-5.97	27.58	33.01
			H	22.37	10.51	-5.97	26.91	33.01
	2593.0	40620	V	24.22	10.59	-6.02	28.79	33.01
			H	22.84	10.59	-6.02	27.41	33.01
	2680.0	41490	V	23.87	10.67	-6.08	28.46	33.01
			H	22.94	10.67	-6.08	27.53	33.01
BAND 41 BW: 20M QPSK RB: 1,0	2506.0	39750	V	21.47	10.48	-5.91	26.04	33.01
			H	21.99	10.48	-5.91	26.56	33.01
	2593.0	40620	V	23.83	10.56	-6	28.39	33.01
			H	21.89	10.56	-6	26.45	33.01
	2680.0	41490	V	23.98	10.64	-6.05	28.57	33.01
			H	22.31	10.64	-6.05	26.9	33.01
BAND 41 BW: 20M QPSK RB: 1,99	2506.0	39750	V	22.31	10.51	-5.97	26.85	33.01
			H	22.08	10.51	-5.97	26.62	33.01
	2593.0	40620	V	23.64	10.59	-6.02	28.21	33.01
			H	22.25	10.59	-6.02	26.82	33.01
	2680.0	41490	V	22.94	10.67	-6.08	27.53	33.01
			H	21.99	10.67	-6.08	26.58	33.01

Remark :

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

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Band 26 for Part 90S

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 26 BW: 1.4M QPSK RB: 1,0	814.7	26697	V	22.18	5.5	-3.51	24.17	50
			H	19.04	5.5	-3.51	21.03	50
	819.0	26740	V	22.43	5.49	-3.24	24.68	50
			H	18.33	5.49	-3.24	20.58	50
	823.3	26783	V	22.43	5.48	-3.38	24.53	50
			H	18.83	5.48	-3.38	20.93	50
BAND 26 BW: 1.4M QPSK RB: 1,5	814.7	26697	V	21.82	5.5	-3.51	23.81	50
			H	18.75	5.5	-3.51	20.74	50
	819.0	26740	V	22.18	5.49	-3.24	24.43	50
			H	18.13	5.49	-3.24	20.38	50
	823.3	26783	V	22.4	5.48	-3.41	24.47	50
			H	18.27	5.48	-3.41	20.34	50
BAND 26 BW: 1.4M 16QAM RB: 1,0	814.7	26697	V	21.79	5.5	-3.5	23.79	50
			H	18.78	5.5	-3.5	20.78	50
	819.0	26740	V	22.31	5.49	-3.24	24.56	50
			H	18.15	5.49	-3.24	20.4	50
	823.3	26783	V	22.45	5.48	-3.55	24.38	50
			H	18.14	5.48	-3.55	20.07	50
BAND 26 BW: 1.4M 16QAM RB: 1,5	814.7	26697	V	21.99	5.5	-3.39	24.1	50
			H	18.11	5.5	-3.39	20.22	50
	819.0	26740	V	22.09	5.49	-3.24	24.34	50
			H	18.57	5.49	-3.24	20.82	50
	823.3	26783	V	22.3	5.48	-3.46	24.32	50
			H	17.98	5.48	-3.46	20	50

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 26 BW: 3M QPSK RB: 1,0	815.5	26705	V	21.89	5.5	-3.44	23.95	50
			H	19.01	5.5	-3.44	21.07	50
	819.0	26740	V	22.12	5.49	-3.23	24.38	50
			H	18.56	5.49	-3.23	20.82	50
	822.5	26775	V	23.15	5.49	-3.42	25.22	50
			H	19.15	5.49	-3.42	21.22	50
BAND 26 BW: 3M QPSK RB: 1,14	815.5	26705	V	22.05	5.49	-3.2	24.34	50
			H	18.42	5.49	-3.2	20.71	50
	819.0	26740	V	22.51	5.49	-3.31	24.69	50
			H	18.9	5.49	-3.31	21.08	50
	822.5	26775	V	22.23	5.48	-3.37	24.34	50
			H	19.04	5.48	-3.37	21.15	50
BAND 26 BW: 3M 16QAM RB: 1,0	815.5	26705	V	22.54	5.5	-3.46	24.58	50
			H	18.63	5.5	-3.46	20.67	50
	819.0	26740	V	21.93	5.49	-3.22	24.2	50
			H	18.47	5.49	-3.22	20.74	50
	822.5	26775	V	22.83	5.49	-3.42	24.9	50
			H	18.38	5.49	-3.42	20.45	50
BAND 26 BW: 3M 16QAM RB: 1,14	815.5	26705	V	22.51	5.49	-3.19	24.81	50
			H	18.82	5.49	-3.19	21.12	50
	819.0	26740	V	21.89	5.49	-3.31	24.07	50
			H	18.01	5.49	-3.31	20.19	50
	822.5	26775	V	22.24	5.48	-3.44	24.28	50
			H	18.42	5.48	-3.44	20.46	50

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 26 BW: 5M QPSK RB: 1,0	816.5	26715	V	21.71	5.5	-3.44	23.77	50
			H	18.69	5.5	-3.44	20.75	50
	819.0	26740	V	21.88	5.49	-3.19	24.18	50
			H	18.33	5.49	-3.19	20.63	50
	821.5	26765	V	22.84	5.49	-3.24	25.09	50
			H	18.54	5.49	-3.24	20.79	50
BAND 26 BW: 5M QPSK RB: 1,24	816.5	26715	V	21.93	5.49	-3.24	24.18	50
			H	18.41	5.49	-3.24	20.66	50
	819.0	26740	V	22.21	5.49	-3.41	24.29	50
			H	18.87	5.49	-3.41	20.95	50
	821.5	26765	V	22.86	5.48	-3.42	24.92	50
			H	18.52	5.48	-3.42	20.58	50
BAND 26 BW: 5M 16QAM RB: 1,0	816.5	26715	V	21.89	5.5	-3.43	23.96	50
			H	18.43	5.5	-3.43	20.5	50
	819.0	26740	V	21.91	5.49	-3.19	24.21	50
			H	18.24	5.49	-3.19	20.54	50
	821.5	26765	V	22.04	5.49	-3.24	24.29	50
			H	18.15	5.49	-3.24	20.4	50
BAND 26 BW: 5M 16QAM RB: 1,24	816.5	26715	V	22.03	5.49	-3.24	24.28	50
			H	18.37	5.49	-3.24	20.62	50
	819.0	26740	V	22.21	5.49	-3.42	24.28	50
			H	18.48	5.49	-3.42	20.55	50
	821.5	26765	V	22.29	5.48	-3.42	24.35	50
			H	18.55	5.48	-3.42	20.61	50

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 26 BW: 10M QPSK RB: 1,0	819.0	26740	V	22.04	5.5	-3.37	24.17	50.00
			H	18.61	5.5	-3.37	20.74	50.00
BAND 26 BW: 10M QPSK RB: 1,49	819.0	26740	V	22.53	5.48	-3.49	24.52	50.00
			H	18.8	5.48	-3.49	20.79	50.00
BAND 26 BW: 10M 16QAM RB: 1,0	819.0	26740	V	21.67	5.5	-3.47	23.7	50.00
			H	18.31	5.5	-3.47	20.34	50.00
BAND 26 BW: 10M 16QAM RB: 1,49	819.0	26740	V	22.1	5.48	-3.49	24.09	50.00
			H	18.32	5.48	-3.49	20.31	50.00

Remark :

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

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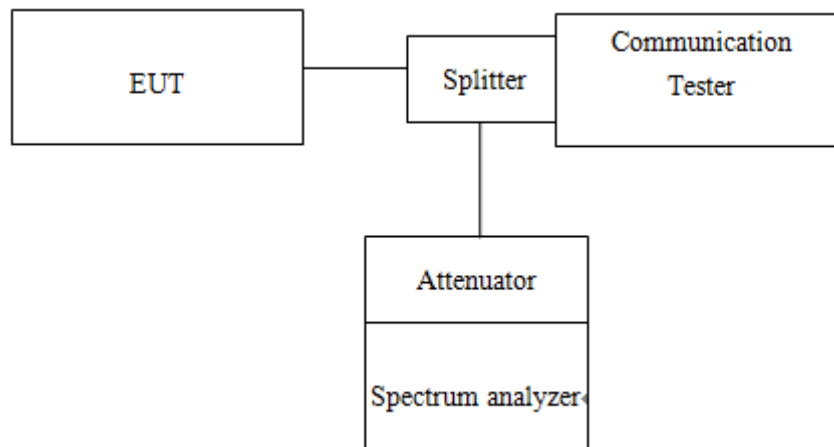
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8. OCCUPIED BANDWIDTH MEASUREMENT

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 with detector peak

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%.

NOTE: For the plot of bandwidth measurement, the marker of the 99% bandwidth is diamond-shape while the marker of the 20dB BW is arrow-mark

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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	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/16/2016	06/15/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017

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8.5. Measurement Result

LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0975	1.0955	1.298	1.303
1880.0	18900	1.0974	1.0988	1.312	1.291
1909.3	19193	1.0985	1.0981	1.296	1.318

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.6940	2.6988	2.973	2.992
1880.0	18900	2.7018	2.6997	2.966	2.985
1908.5	19185	2.6976	2.7003	2.971	2.991

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.5039	4.5033	5.034	5.035
1880.0	18900	4.5128	4.5112	5.050	5.038
1907.5	19175	4.5045	4.5100	5.055	5.029

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	8.9811	8.9514	9.905	9.832
1880.0	18900	9.0099	8.9702	9.890	9.857
1905.0	19150	8.9845	8.9625	9.903	9.823

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.478	13.466	14.83	14.91
1880.0	18900	13.476	13.491	14.77	14.75
1902.5	19125	13.489	13.480	14.64	14.78

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.951	17.925	19.45	19.46
1880.0	18900	17.945	17.997	19.62	19.63
1900.0	19100	17.930	17.941	19.42	19.51

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LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0964	1.0988	1.301	1.307
1732.5	20175	1.0960	1.0974	1.310	1.317
1754.3	20393	1.1000	1.0986	1.298	1.319

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.7039	2.7014	3.010	2.989
1732.5	20175	2.7016	2.7072	2.999	3.011
1753.5	20385	2.7024	2.7004	2.987	2.988

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5104	4.5032	5.063	5.059
1732.5	20175	4.5068	4.5103	5.052	5.013
1752.5	20375	4.5071	4.5081	5.064	5.030

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9803	8.9590	9.848	9.835
1732.5	20175	8.9964	8.9739	9.872	9.873
1750.0	20350	8.9803	8.9469	9.894	9.741

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.475	13.455	14.74	14.92
1732.5	20175	13.530	13.533	14.93	14.90
1747.5	20325	13.473	13.469	14.71	14.90

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.934	17.939	19.41	19.47
1732.5	20175	17.974	17.984	19.57	19.66
1745.0	20300	17.906	17.909	19.55	19.39

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LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0958	1.0963	1.287	1.279
836.5	20525	1.0971	1.0950	1.297	1.295
848.3	20643	1.0977	1.0980	1.291	1.290

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.6975	2.7009	2.970	2.989
836.5	20525	2.7013	2.6997	2.985	2.996
847.5	20635	2.6982	2.7021	2.980	2.991

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5066	4.5014	5.021	5.051
836.5	20525	4.5038	4.5051	5.050	4.976
846.5	20625	4.5007	4.4945	4.973	4.982

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
829.0	20450	8.9859	8.9530	9.809	9.852
836.5	20525	9.0181	8.9745	9.883	9.774
844.0	20600	8.9437	8.9070	9.770	9.728

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0994	1.0964	1.287	1.286
707.5	23095	1.0982	1.0970	1.275	1.292
715.3	23173	1.0981	1.0946	1.297	1.284

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.6931	2.7010	2.961	2.993
707.5	23095	2.7065	2.6988	3.010	2.988
714.5	23165	2.6964	2.6961	2.976	3.001

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.4979	4.5068	4.994	4.961
707.5	23095	4.5155	4.5079	5.044	5.057
713.5	23155	4.4988	4.4985	4.978	5.016

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
704.0	23060	8.9144	8.8753	9.786	9.691
707.5	23095	9.0297	8.9638	9.895	9.819
711.0	23130	9.0413	9.0028	9.921	9.829

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LTE BAND 25 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1850.7	26047	1.0966	1.0976	1.306	1.292
1882.5	26365	1.0970	1.0960	1.303	1.298
1914.3	26683	1.1011	1.0978	1.366	1.321

LTE BAND 25 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1851.5	26055	2.6964	2.6982	2.956	3.008
1882.5	26365	2.7040	2.6998	2.986	2.999
1913.5	26675	2.6973	2.7023	2.990	2.987

LTE BAND 25 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1852.5	16065	4.5017	4.5065	5.048	5.040
1882.5	26365	4.5129	4.5039	5.055	5.059
1912.5	26665	4.5050	4.5048	5.060	5.033

LTE BAND 25 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1855.0	26090	8.9996	8.9564	9.783	9.832
1882.5	26365	8.9824	8.9594	9.919	9.806
1910.0	26640	8.9768	8.9534	9.891	9.916

LTE BAND 25 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1857.5	26115	13.489	13.466	14.79	14.63
1882.5	26365	13.507	13.457	14.71	14.80
1907.5	26615	13.465	13.467	14.69	14.70

LTE BAND 25 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
1860.0	26140	17.934	17.972	19.48	19.56
1882.5	26365	17.901	17.941	19.50	19.46
1905.0	26590	17.878	17.933	19.39	19.38

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LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
824.7	26797	1.0961	1.0964	1.302	1.291
836.5	26915	1.0956	1.0981	1.287	1.284
848.3	27033	1.0994	1.0975	1.303	1.292

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
825.5	26805	2.7145	2.7148	3.008	3.000
836.5	26915	2.7126	2.6946	3.004	2.989
847.5	27025	2.7108	2.6993	2.995	2.978

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
826.5	26815	4.5126	4.5067	5.072	4.992
836.5	26915	4.5064	4.5037	5.046	5.053
846.5	27015	4.5002	4.4845	5.014	4.951

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
829.0	26840	8.9812	8.9511	9.897	9.799
836.5	26915	9.0025	8.9526	9.946	9.795
844.0	26990	8.9332	8.9162	9.795	9.794

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
831.5	26865	13.472	13.469	14.71	14.67
836.5	26915	13.464	13.492	14.70	14.43
841.5	26965	13.461	13.439	14.75	14.68

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LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.5159	4.5240	5.043	5.224
2593.0	40620	4.5217	4.5097	5.061	4.995
2687.5	41565	4.5278	4.5337	5.409	5.812

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2501.0	39700	8.9705	8.9885	9.833	9.980
2593.0	40620	8.9792	8.9883	9.848	10.420
2685.0	41540	8.9759	8.9686	9.789	10.760

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.489	13.519	14.60	14.93
2593.0	40620	13.491	13.477	14.79	14.90
2682.5	41515	13.489	13.491	14.67	14.91

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2506.0	39750	17.916	17.919	19.43	19.68
2593.0	40620	17.917	17.929	19.37	19.80
2680.0	41490	17.941	17.936	19.57	19.72

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Band 26 for Part 90S

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.0961	1.0953	1.264	1.267
819.0	26740	1.0985	1.0955	1.299	1.281
823.3	26783	1.0943	1.0970	1.285	1.250

LTE BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.7069	2.7099	2.976	2.957
819.0	26740	2.7010	2.7014	2.940	2.926
822.5	26775	2.7068	2.6940	2.956	2.960

LTE BAND 26 for part 90S Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.5205	4.4876	4.934	4.785
819.0	26740	4.5103	4.4996	4.927	4.971
821.5	26765	4.5139	4.4852	4.877	4.930

LTE BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
819.0	26740	9.0053	8.9952	9.745	9.585

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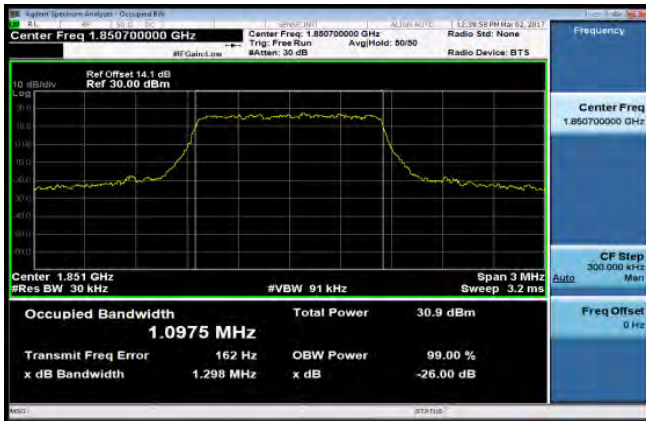
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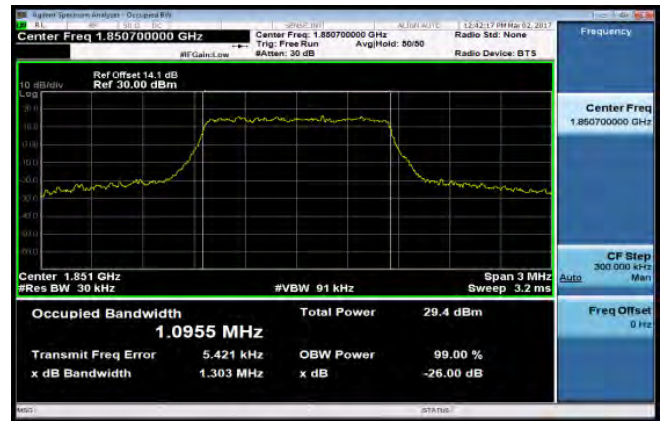
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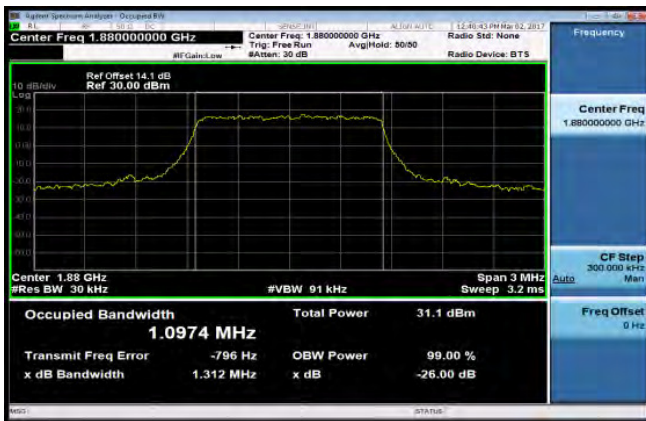
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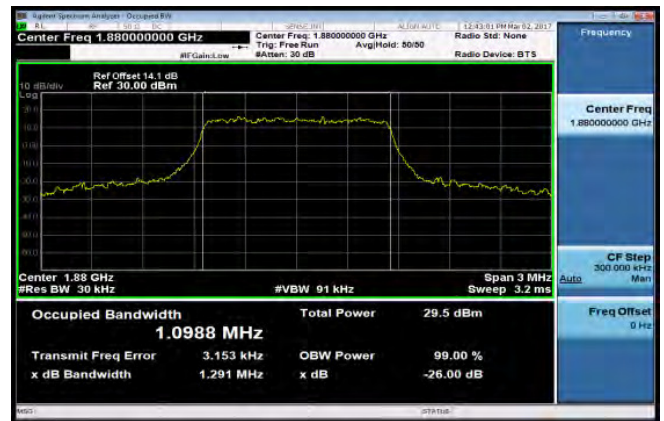
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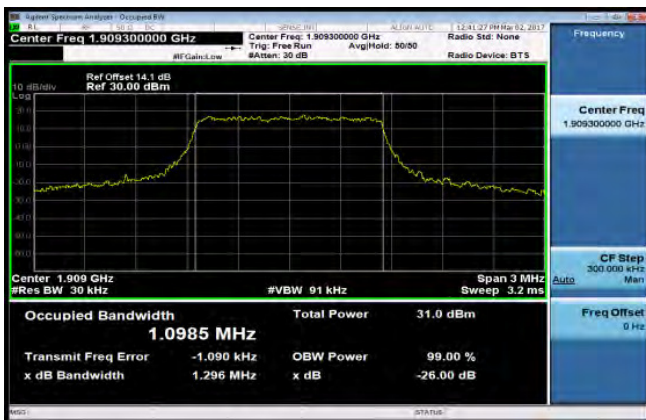
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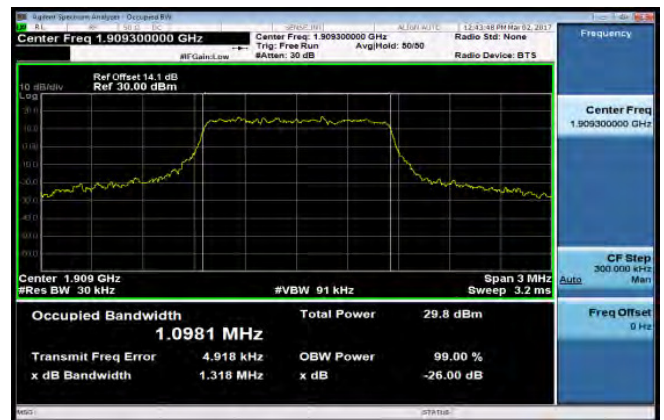
Band2_1.4MHz_16QAM_6_0_MidCH18900-1880



Band2_1.4MHz_QPSK_6_0_HighCH19193-1909.3



Band2_1.4MHz_16QAM_6_0_HighCH19193-1909.3



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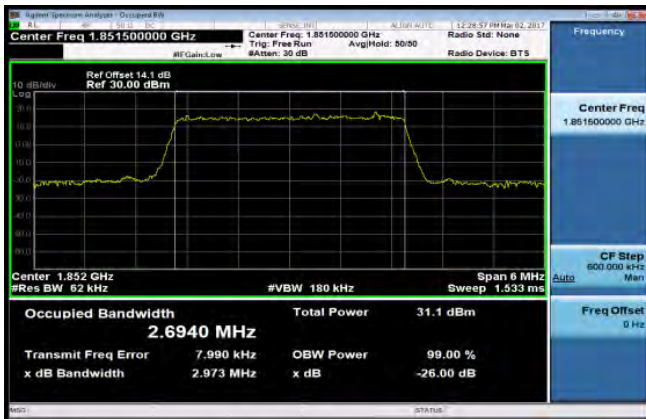
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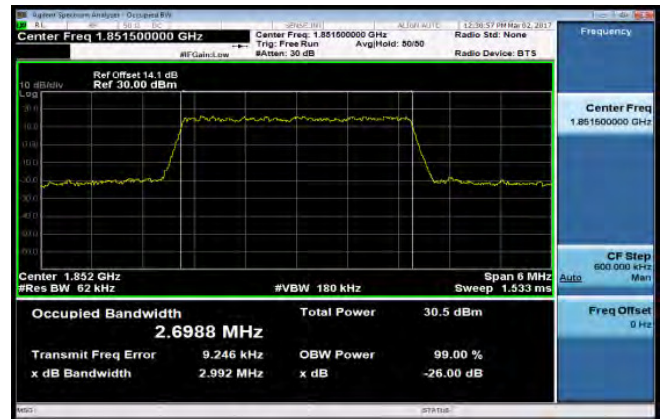
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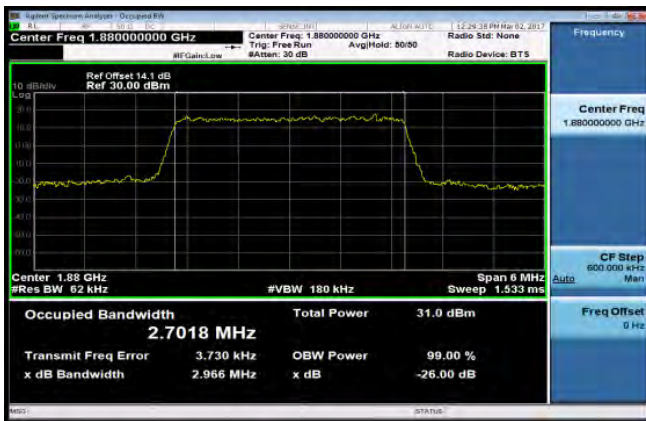
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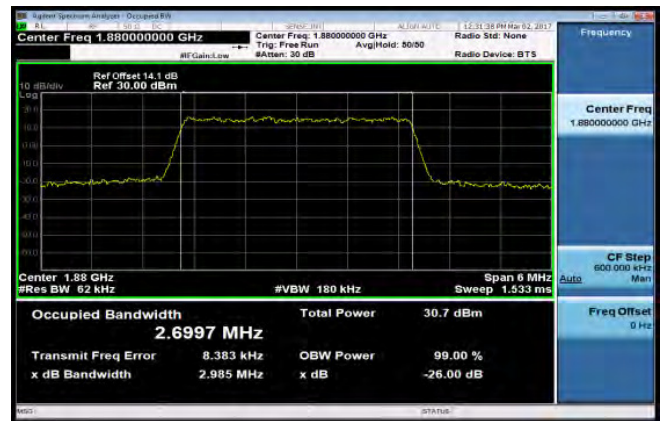
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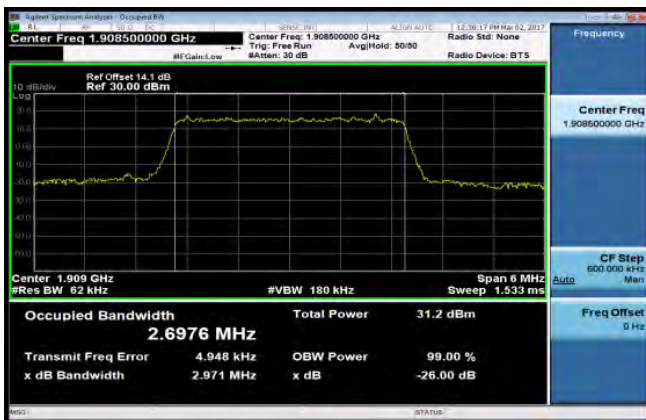
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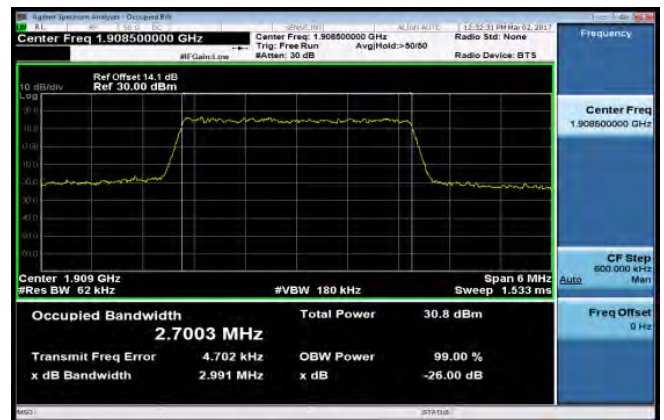
Band2_3MHz_16QAM_15_0_MidCH18900-1880



Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



Band2_3MHz_16QAM_15_0_HighCH19185-1908.5

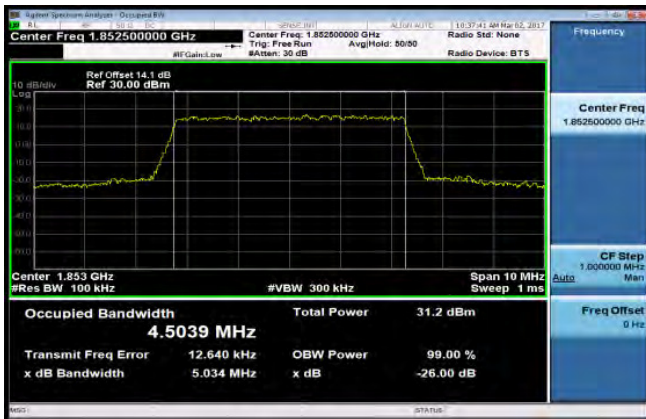


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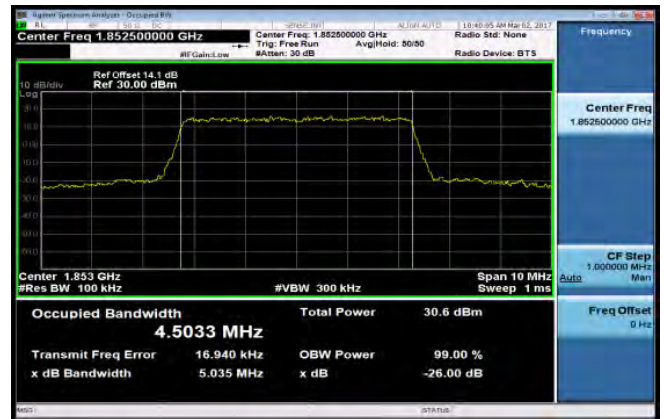
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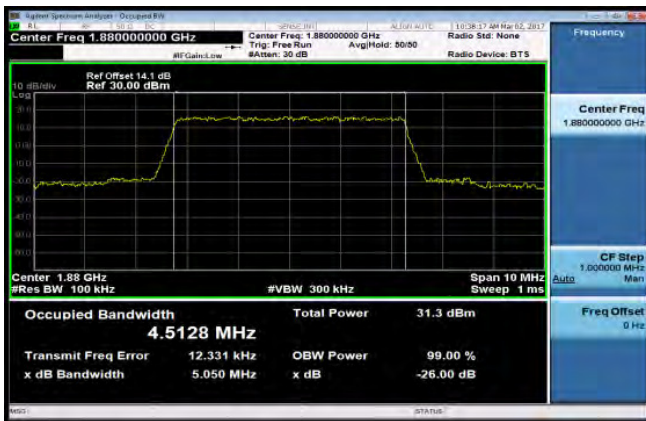
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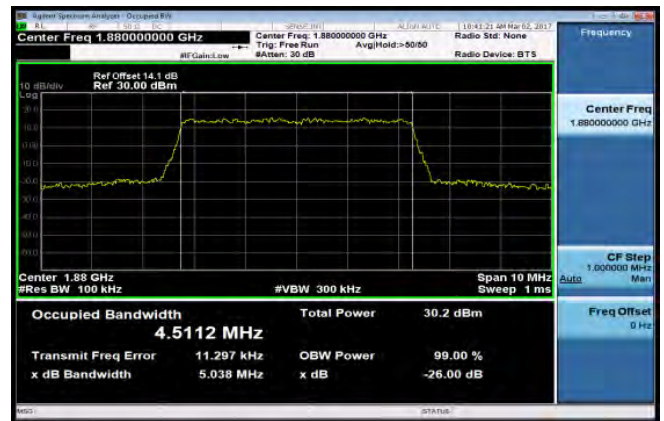
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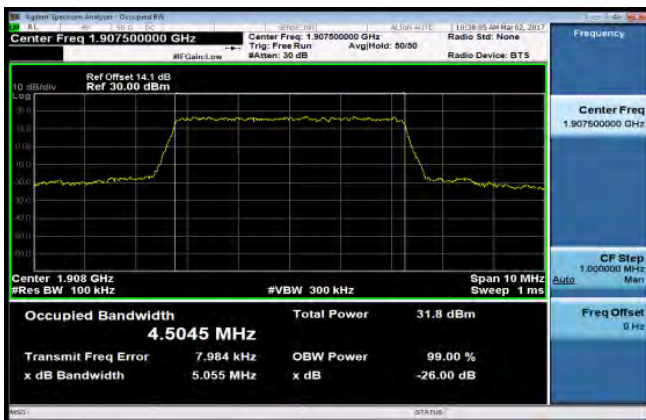
Band2_5MHz_QPSK_25_0_MidCH18900-1880



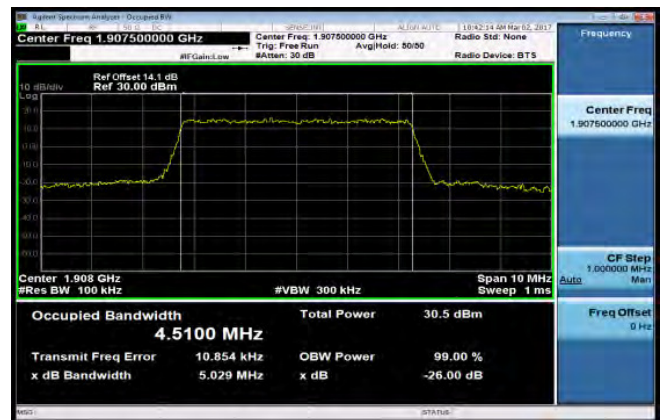
Band2_5MHz_16QAM_25_0_MidCH18900-1880



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



Band2_5MHz_16QAM_25_0_HighCH19175-1907.5

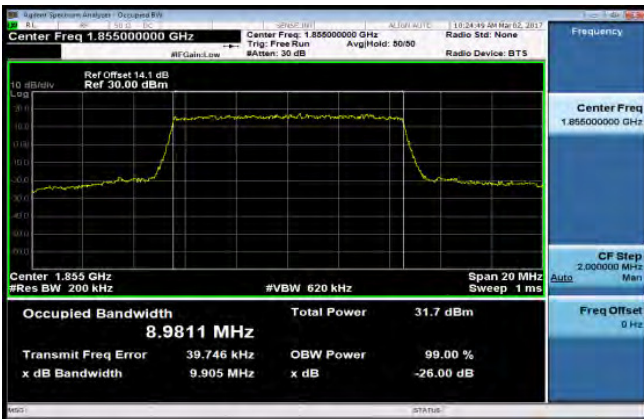


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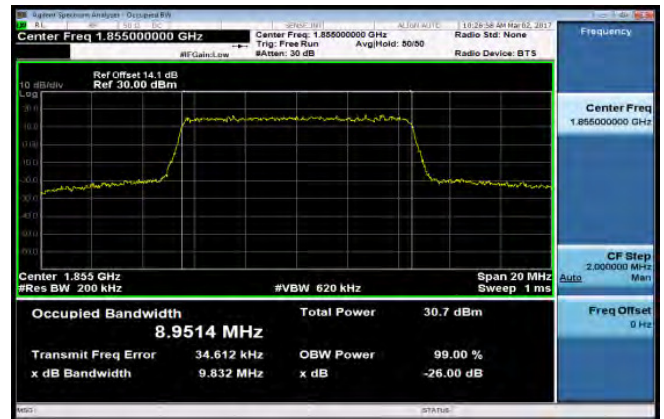
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Band2_10MHz_QPSK_50_0_LowCH18650-1855



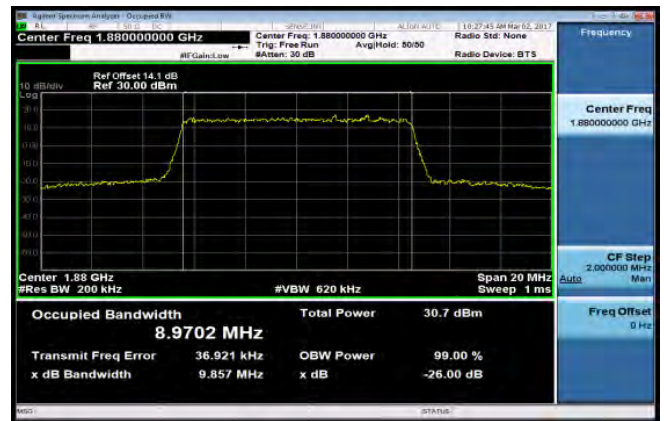
Band2_10MHz_16QAM_50_0_LowCH18650-1855



Band2_10MHz_QPSK_50_0_MidCH18900-1880



Band2_10MHz_16QAM_50_0_MidCH18900-1880



Band2_10MHz_QPSK_50_0_HighCH19150-1905



Band2_10MHz_16QAM_50_0_HighCH19150-1905



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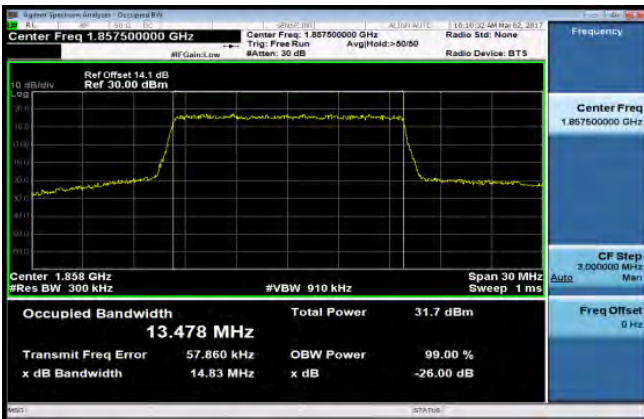
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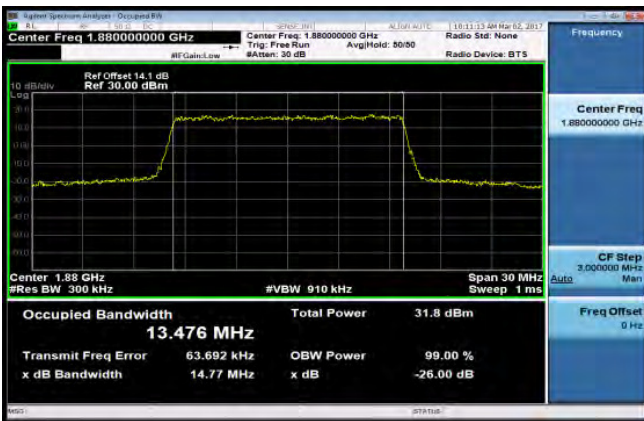
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Band2_15MHz_16QAM_75_0_LowCH18675-1857.5



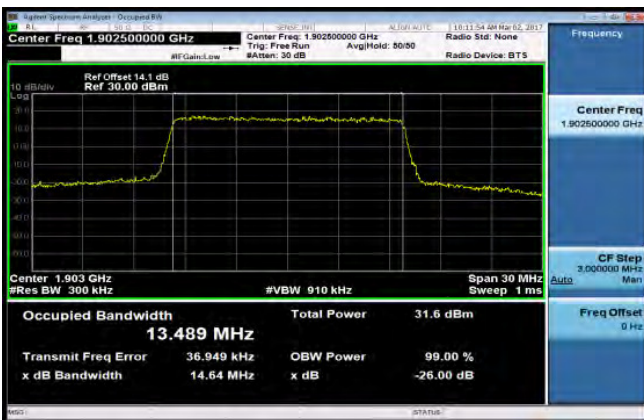
Band2_15MHz_QPSK_75_0_MidCH18900-1880



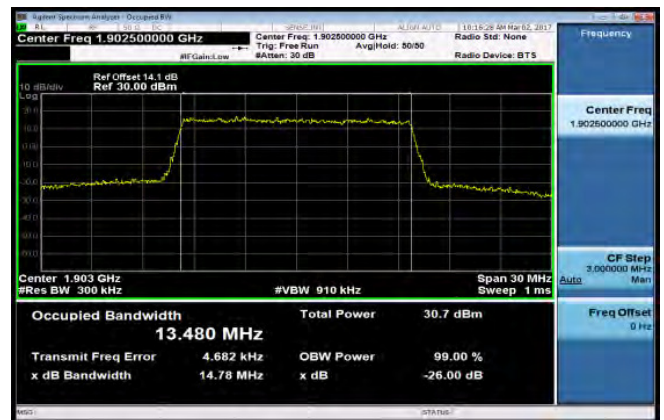
Band2_15MHz_16QAM_75_0_MidCH18900-1880



Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



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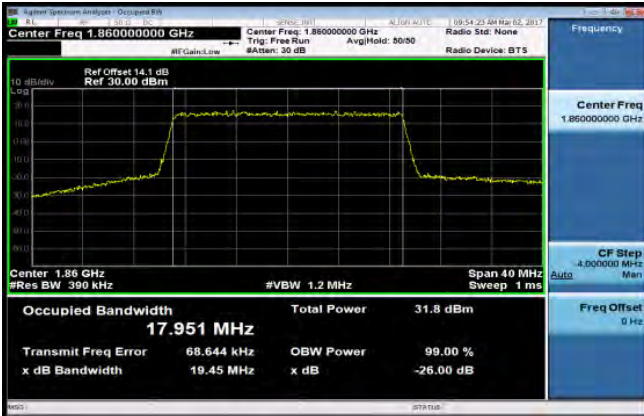


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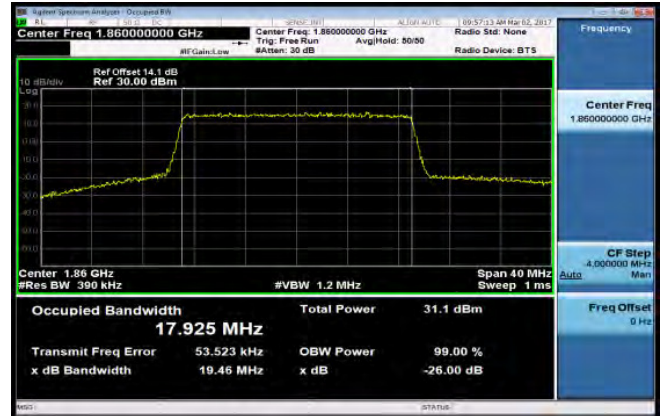
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Band2_20MHz_QPSK_100_0_LowCH18700-1860



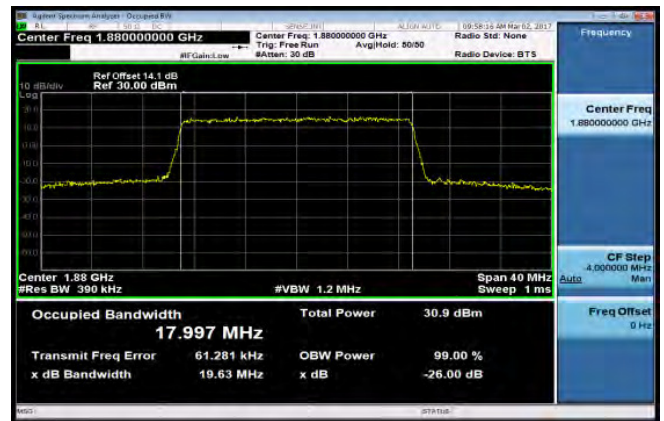
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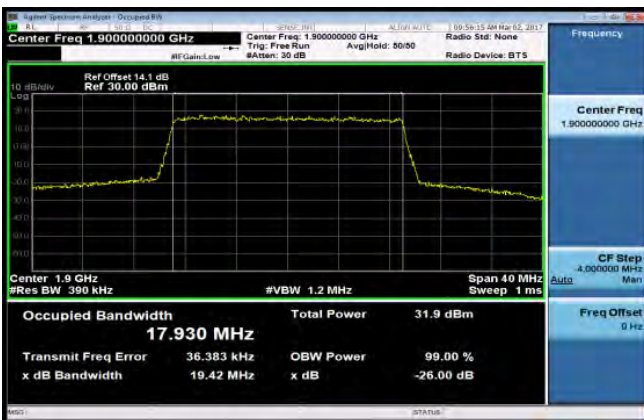
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Band2_20MHz_16QAM_100_0_MidCH18900-1880



Band2_20MHz_QPSK_100_0_HighCH19100-1900



Band2_20MHz_16QAM_100_0_HighCH19100-1900

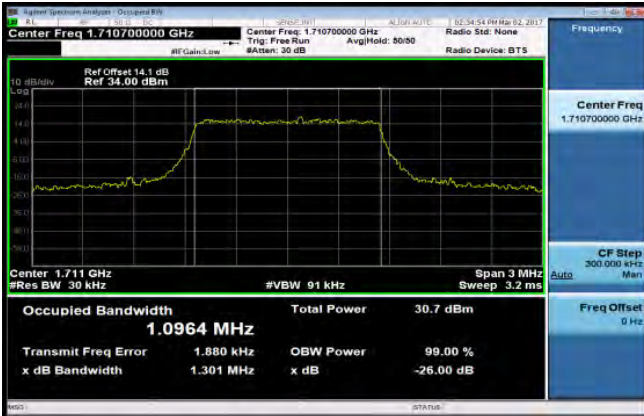


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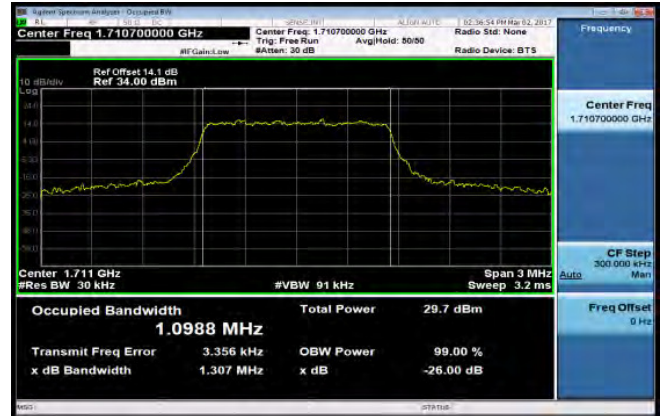
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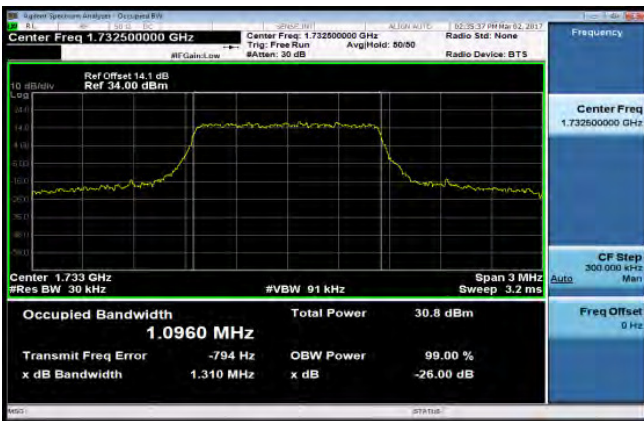
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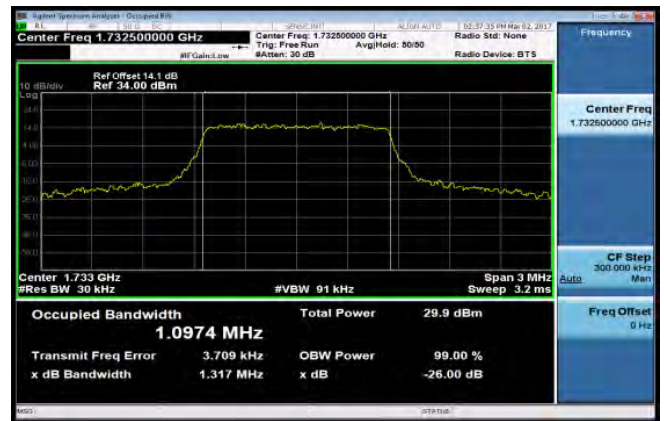
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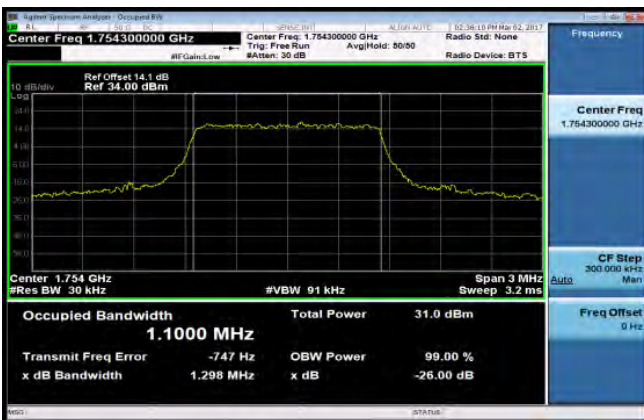
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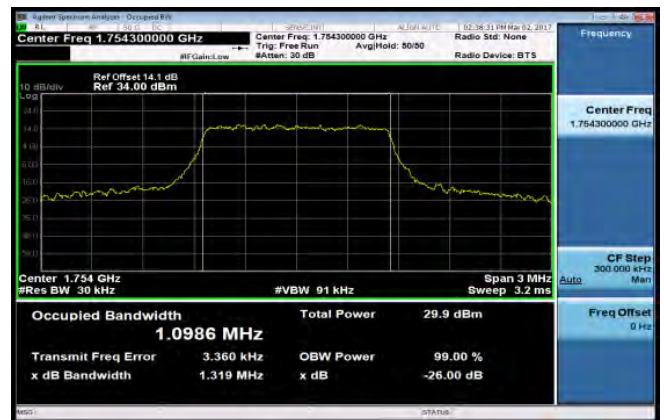
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Band4_1.4MHz_16QAM_6_0_HighCH20393-1754.3

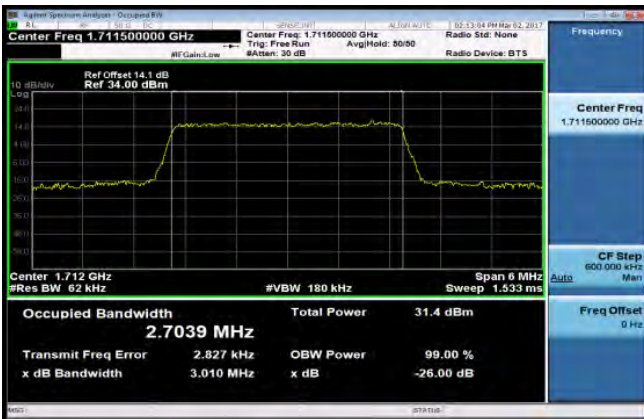


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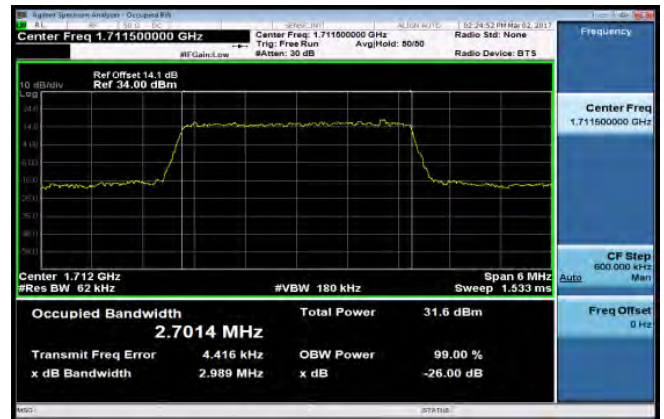
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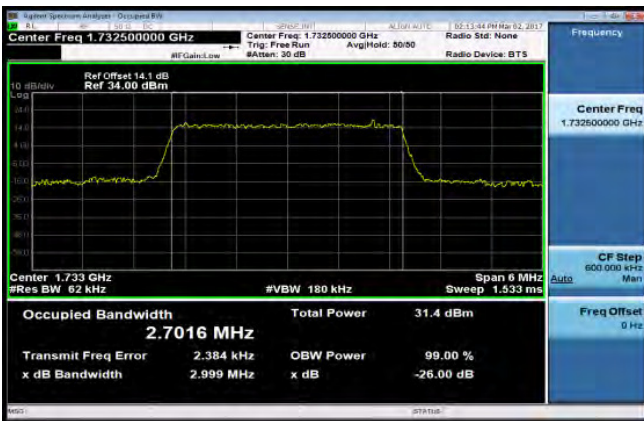
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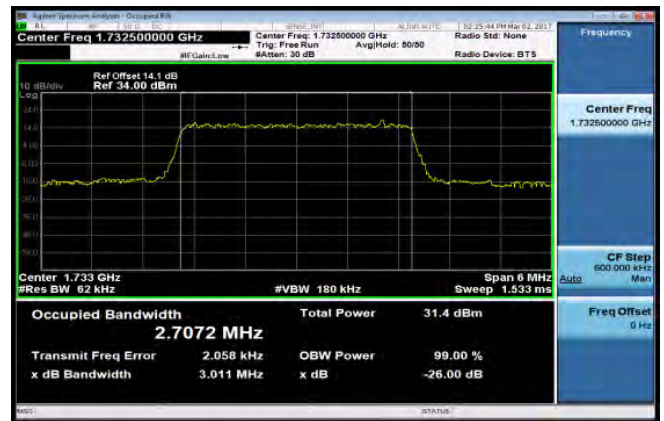
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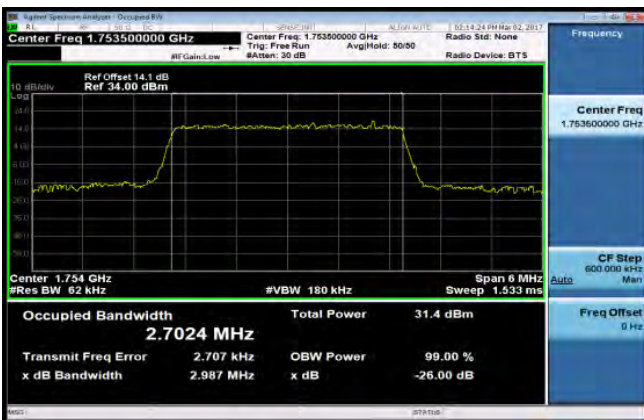
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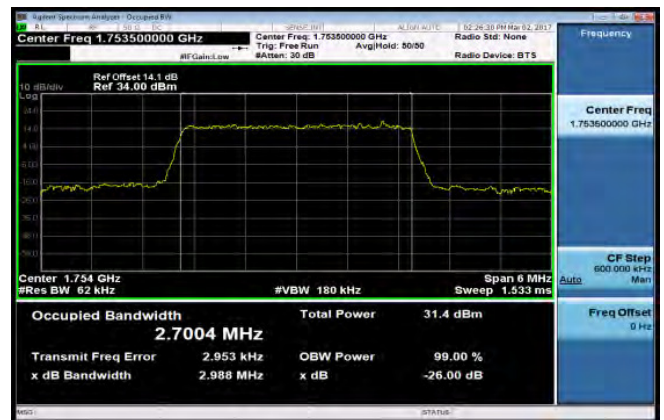
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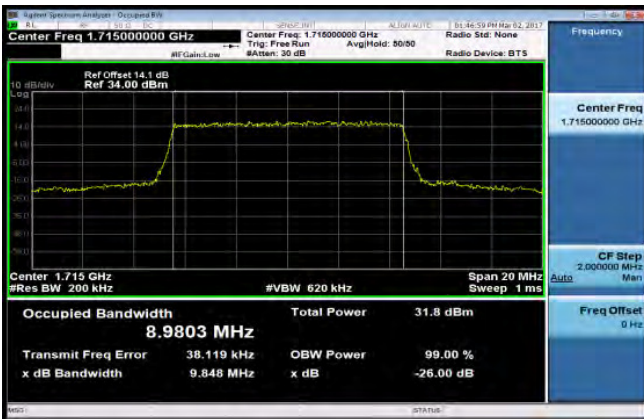


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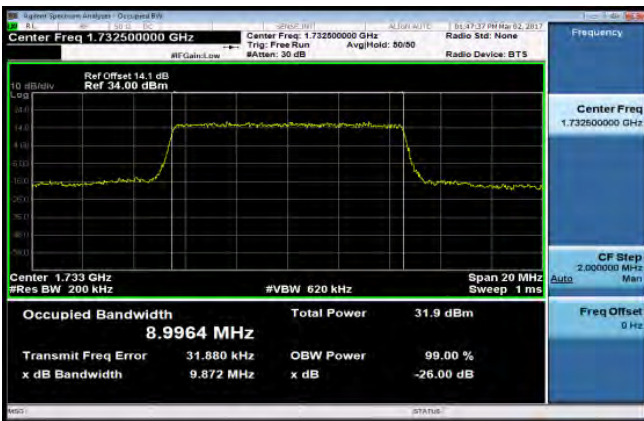
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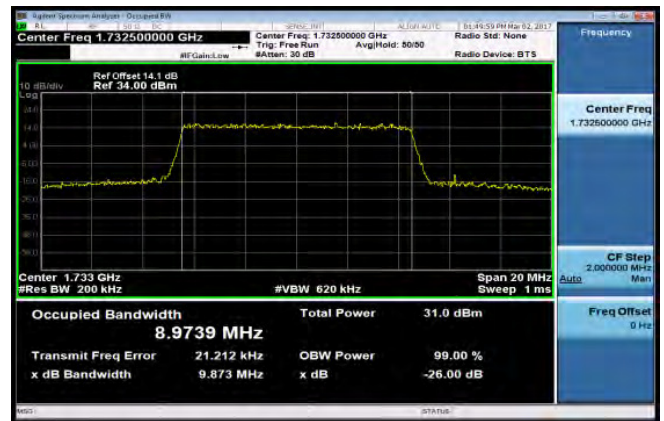
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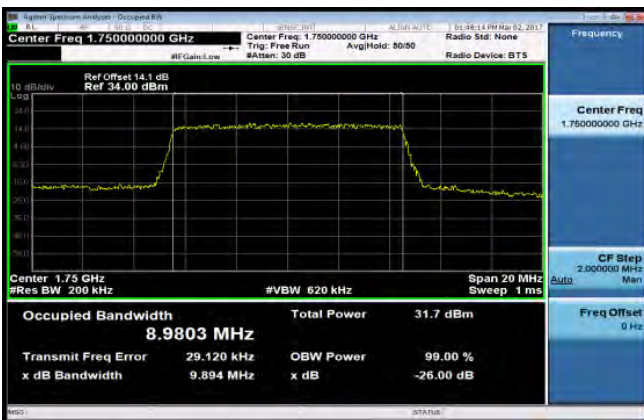
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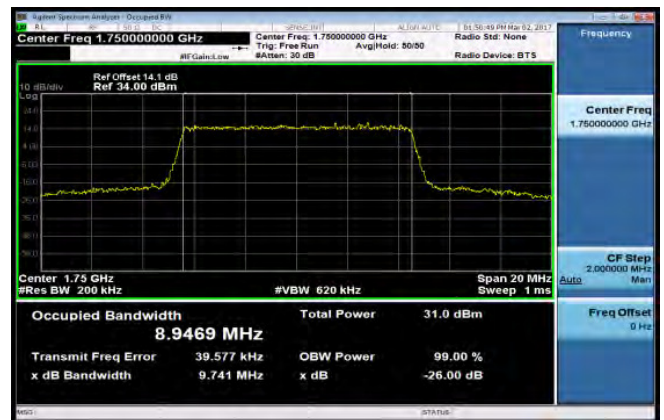
Band4_10MHz_16QAM_50_0_MidCH20175-1732.5



Band4_10MHz_QPSK_50_0_HighCH20350-1750



Band4_10MHz_16QAM_50_0_HighCH20350-1750



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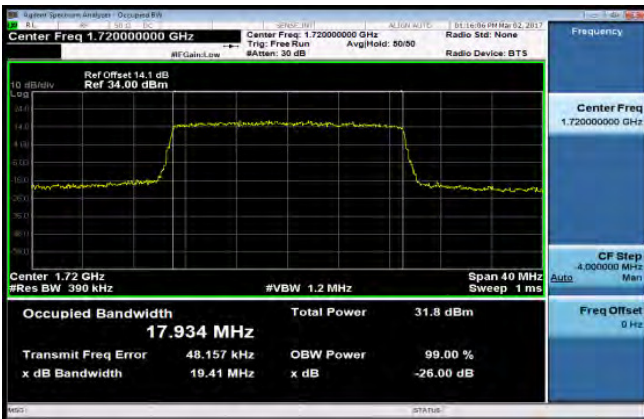
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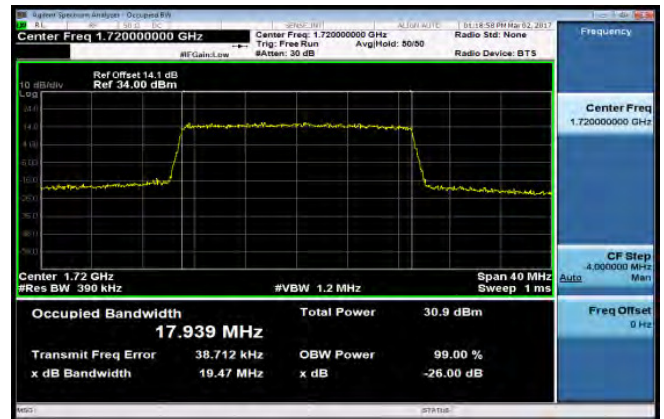
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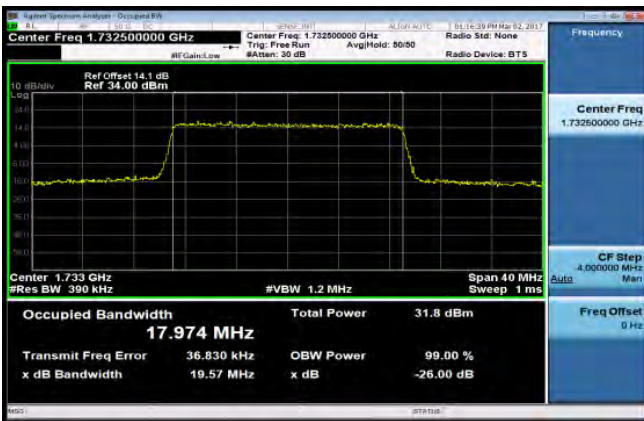
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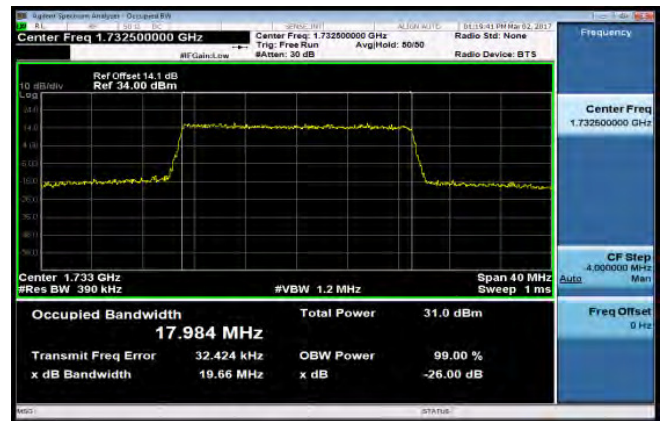
Band4_20MHz_16QAM_100_0_LowCH20050-1720



Band4_20MHz_QPSK_100_0_MidCH20175-1732.5



Band4_20MHz_16QAM_100_0_MidCH20175-1732.5



Band4_20MHz_QPSK_100_0_HighCH20300-1745



Band4_20MHz_16QAM_100_0_HighCH20300-1745



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Band5_1.4MHz_16QAM_6_0_LowCH20407-824.7



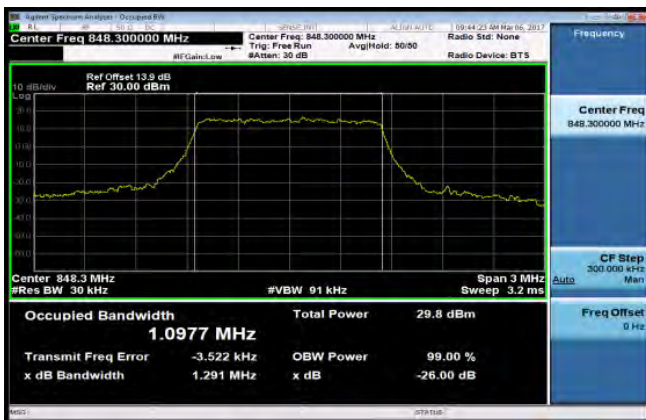
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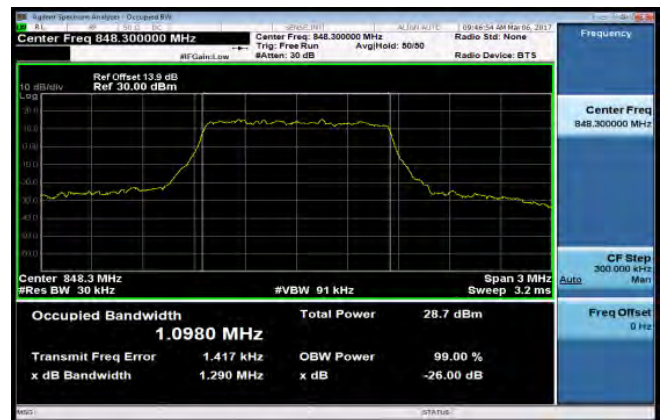
Band5_1.4MHz_16QAM_6_0_MidCH20525-836.5



Band5_1.4MHz_QPSK_6_0_HighCH20643-848.3



Band5_1.4MHz_16QAM_6_0_HighCH20643-848.3



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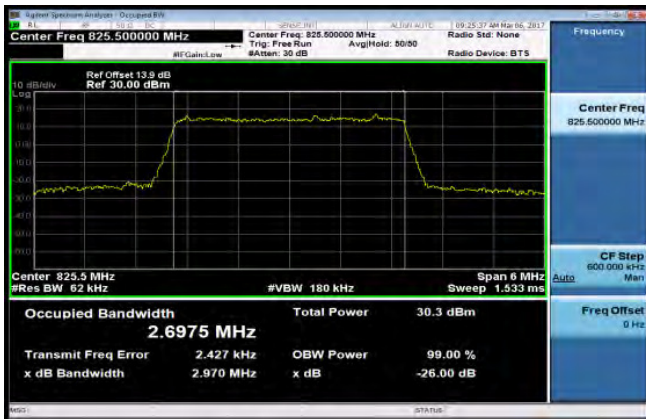
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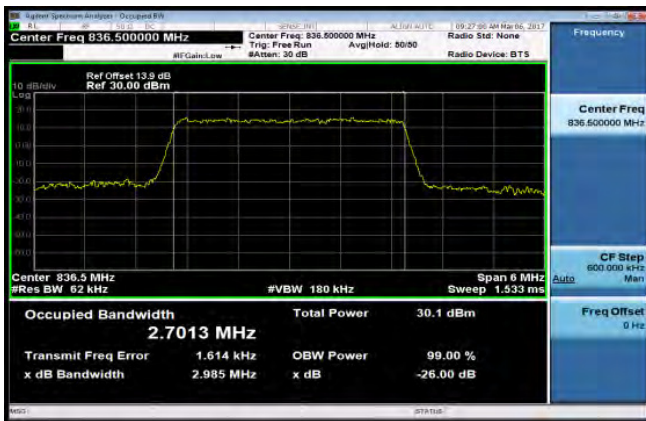
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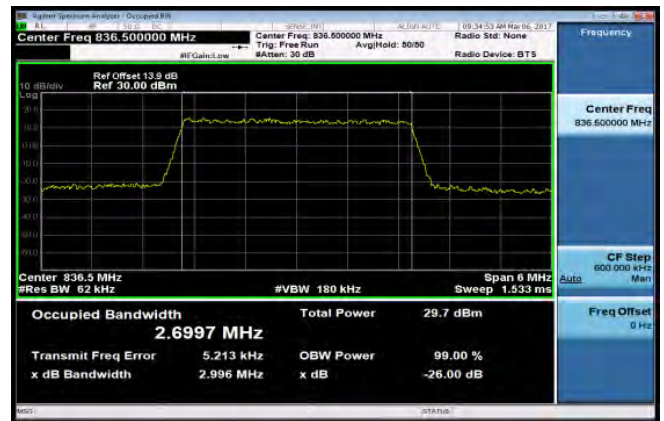
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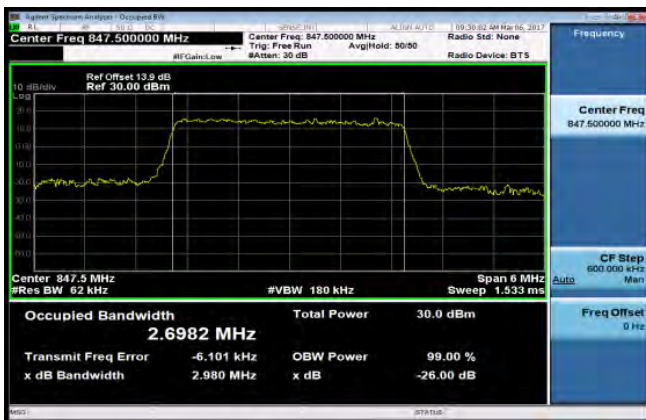
Band5_3MHz_QPSK_15_0_MidCH20525-836.5



Band5_3MHz_16QAM_15_0_MidCH20525-836.5



Band5_3MHz_QPSK_15_0_HighCH20635-847.5



Band5_3MHz_16QAM_15_0_HighCH20635-847.5

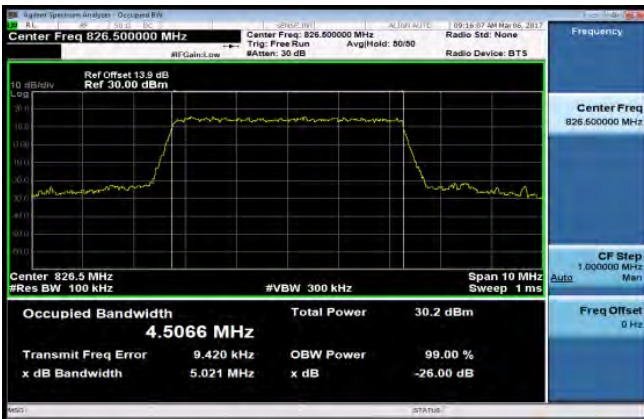


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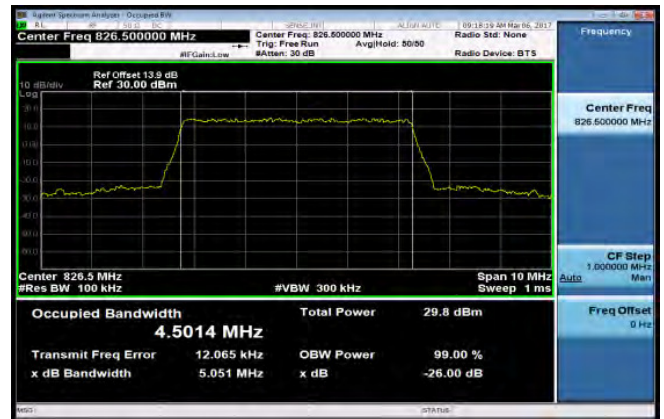
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Band5_5MHz_QPSK_25_0_LowCH20425-826.5



Band5_5MHz_16QAM_25_0_LowCH20425-826.5



Band5_5MHz_QPSK_25_0_MidCH20525-836.5



Band5_5MHz_16QAM_25_0_MidCH20525-836.5



Band5_5MHz_QPSK_25_0_HighCH20625-846.5



Band5_5MHz_16QAM_25_0_HighCH20625-846.5



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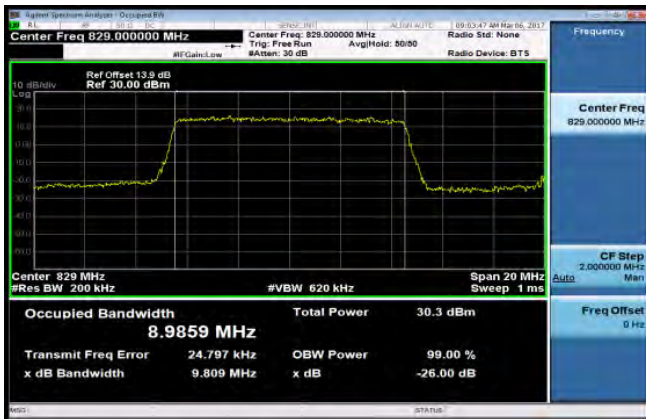
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Band5_10MHz_QPSK_50_0_LowCH20450-829



Band5_10MHz_16QAM_50_0_LowCH20450-829



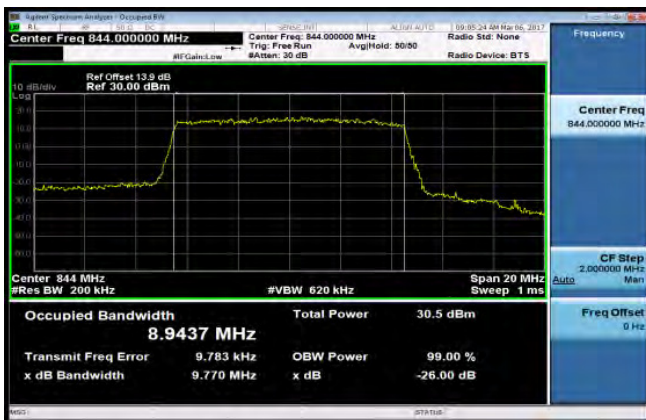
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Band5_10MHz_16QAM_50_0_MidCH20525-836.5



Band5_10MHz_QPSK_50_0_HighCH20600-844



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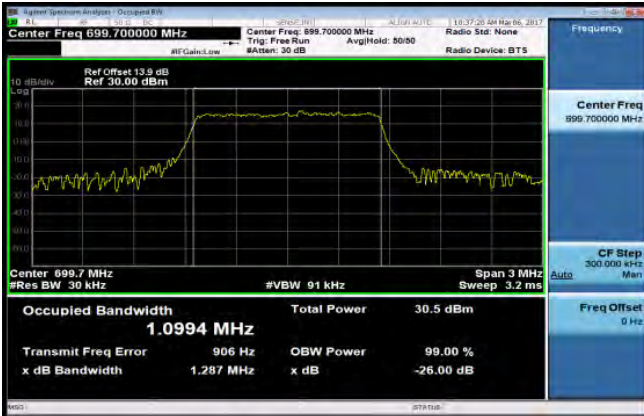


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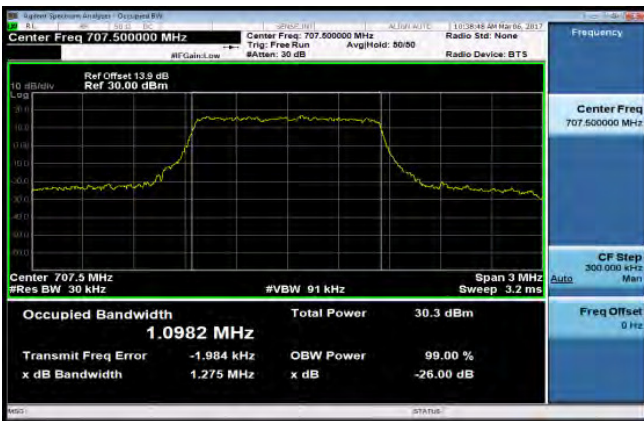
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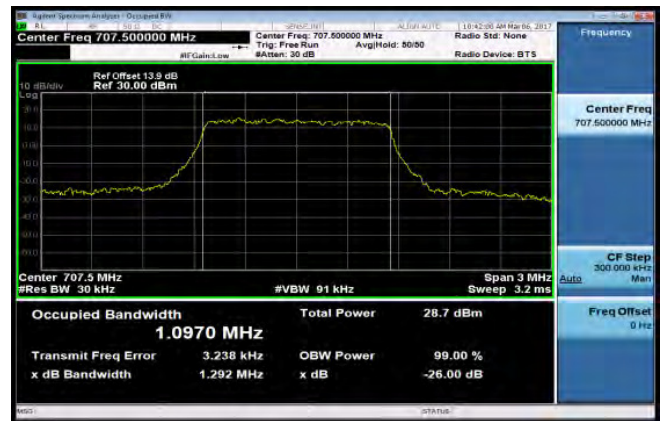
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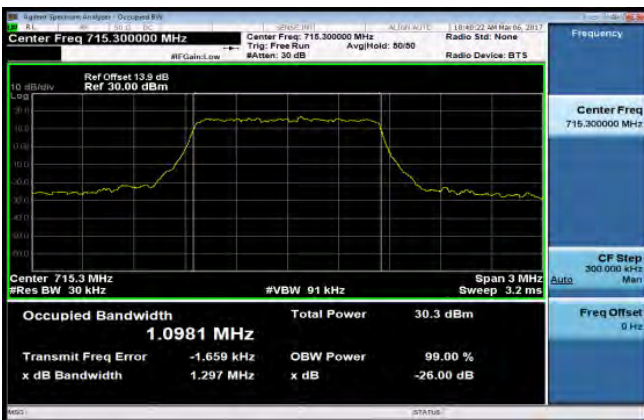
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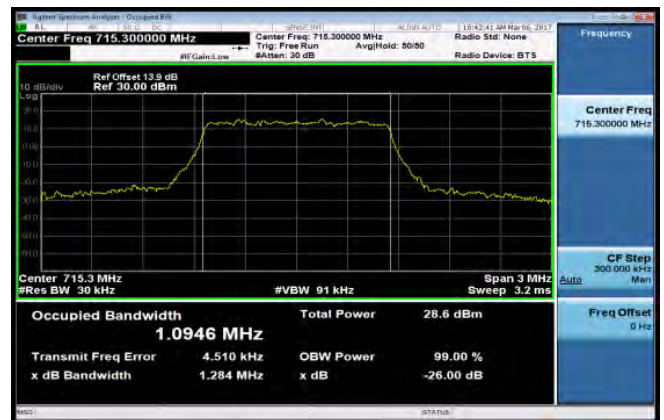
Band12_1.4MHz_16QAM_6_0_MidCH23095-707.5



Band12_1.4MHz_QPSK_6_0_HighCH23173-715.3



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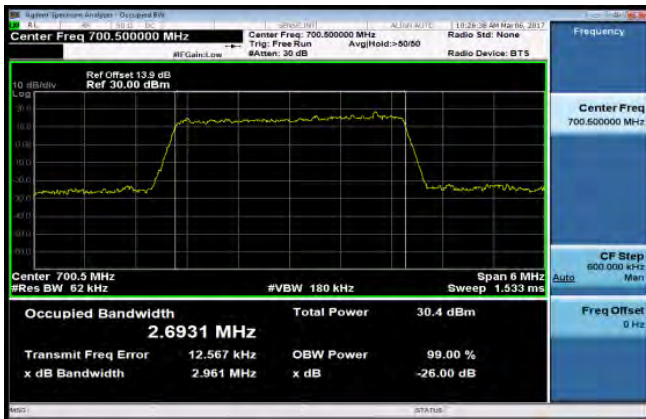


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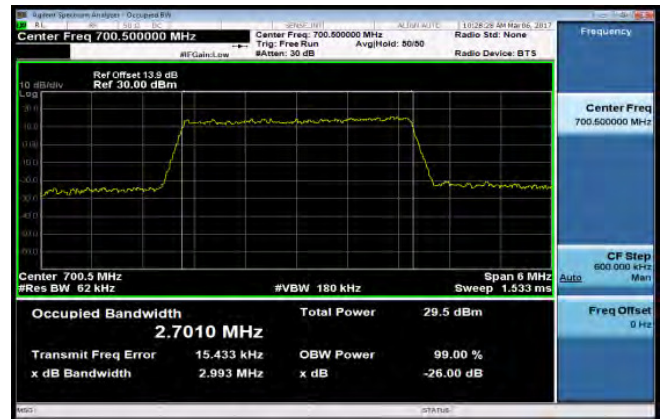
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Band12_3MHz_QPSK_15_0_LowCH23025-700.5



Band12_3MHz_16QAM_15_0_LowCH23025-700.5



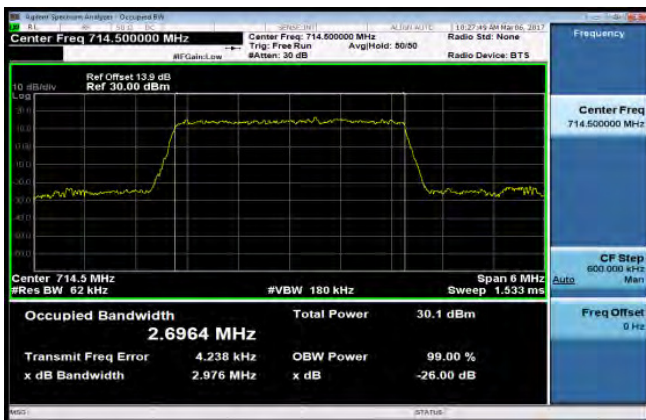
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Band12_3MHz_16QAM_15_0_MidCH23095-707.5



Band12_3MHz_QPSK_15_0_HighCH23165-714.5



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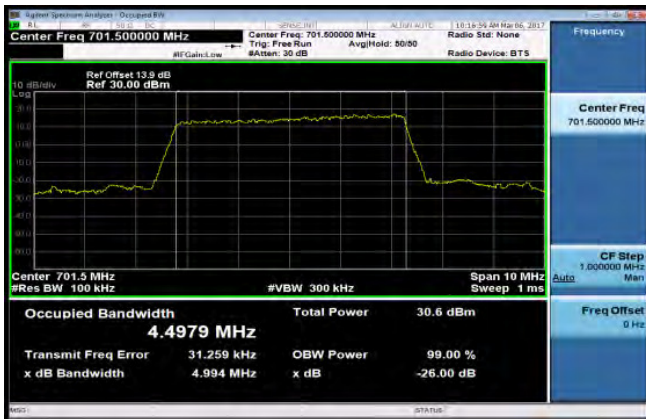


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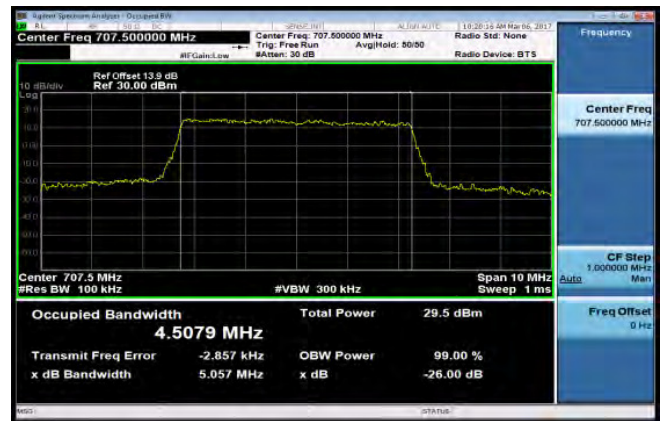
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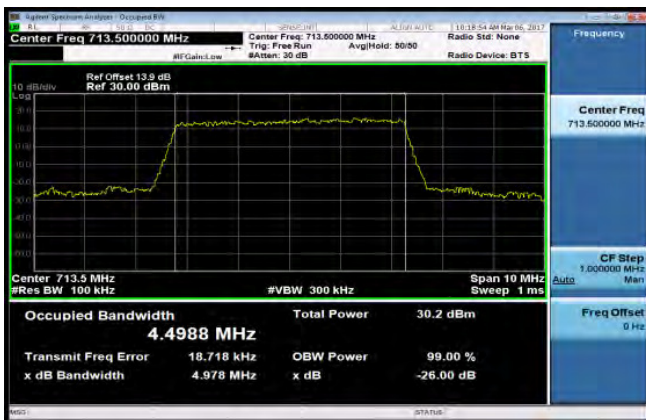
Band12_5MHz_QPSK_25_0_MidCH23095-707.5



Band12_5MHz_16QAM_25_0_MidCH23095-707.5



Band12_5MHz_QPSK_25_0_HighCH23155-713.5



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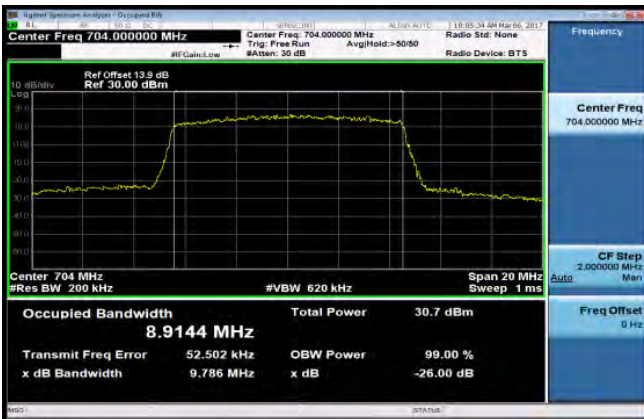


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Band12_10MHz_QPSK_50_0_LowCH23060-704



Band12_10MHz_16QAM_50_0_LowCH23060-704



Band12_10MHz_QPSK_50_0_MidCH23095-707.5



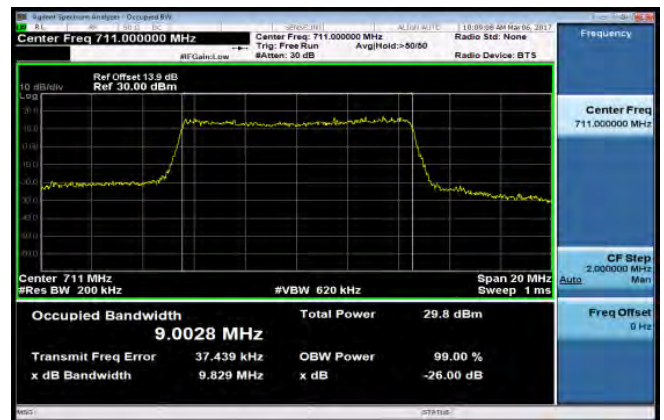
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Band12_10MHz_QPSK_50_0_HighCH23130-711



Band12_10MHz_16QAM_50_0_HighCH23130-711

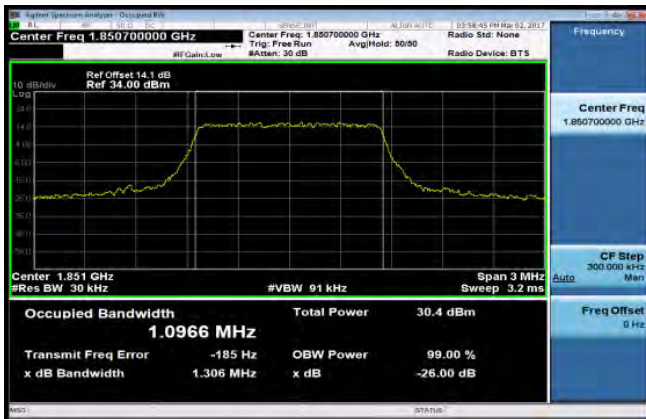


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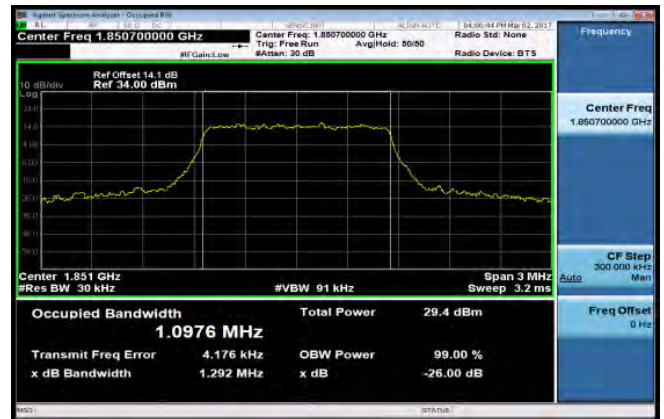
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Band25_1.4MHz_QPSK_6_0_LowCH26047-1850.7



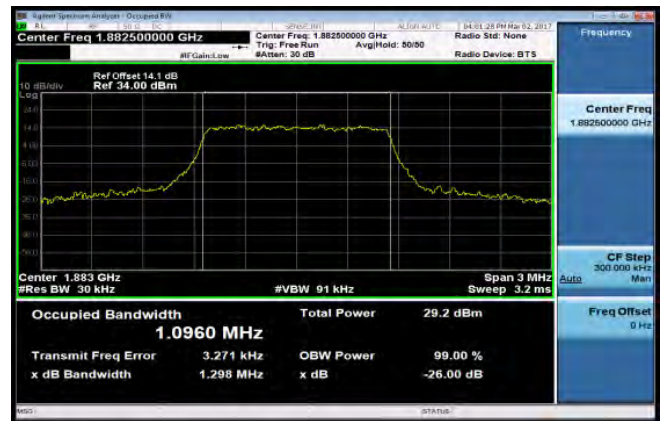
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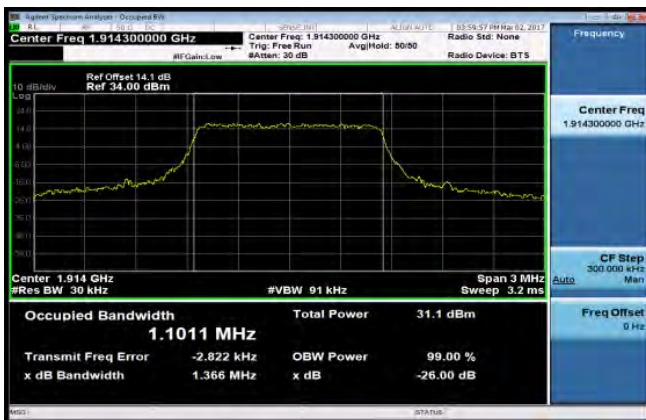
Band25_1.4MHz_QPSK_6_0_MidCH26365-1882.5



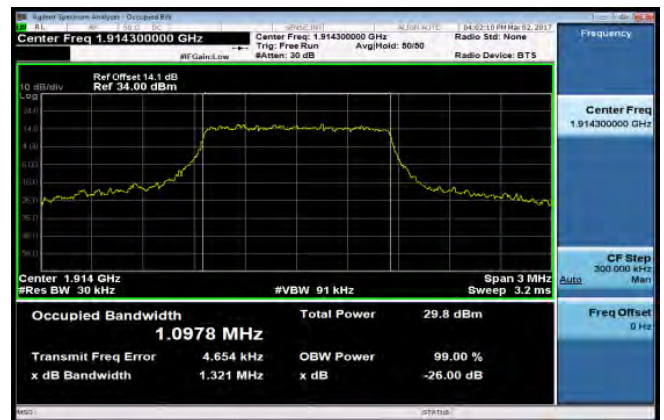
Band25_1.4MHz_16QAM_6_0_MidCH26365-1882.5



Band25_1.4MHz_QPSK_6_0_HighCH26683-1914.3



Band25_1.4MHz_16QAM_6_0_HighCH26683-1914.3

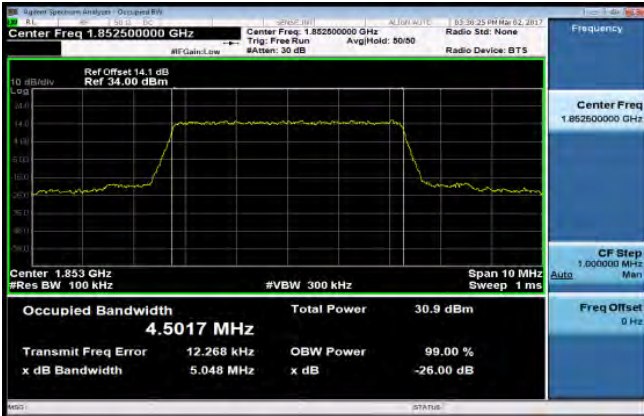


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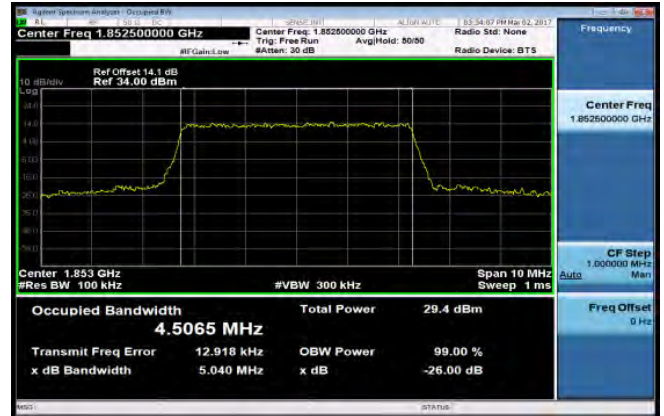
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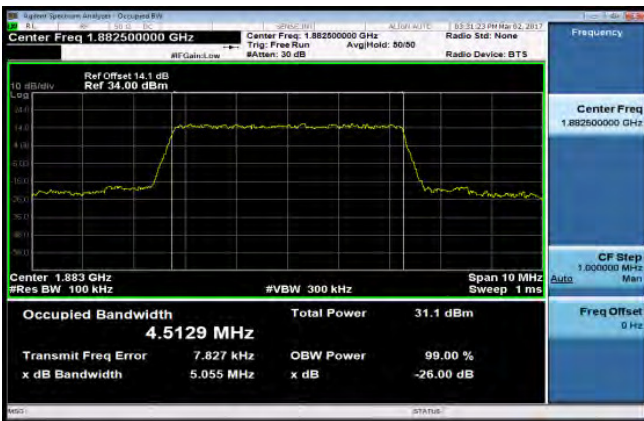
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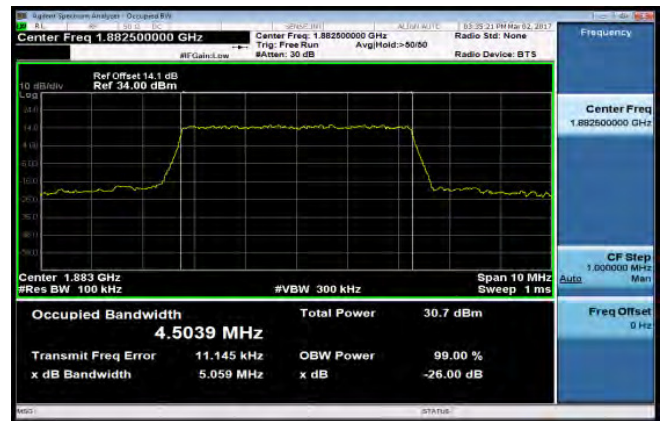
Band25_5MHz_16QAM_25_0_LowCH26065-1852.5



Band25_5MHz_QPSK_25_0_MidCH26365-1882.5



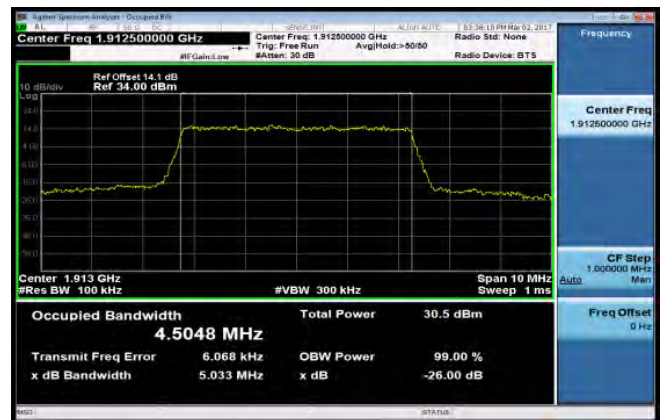
Band25_5MHz_16QAM_25_0_MidCH26365-1882.5



Band25_5MHz_QPSK_25_0_HighCH26665-1912.5



Band25_5MHz_16QAM_25_0_HighCH26665-1912.5

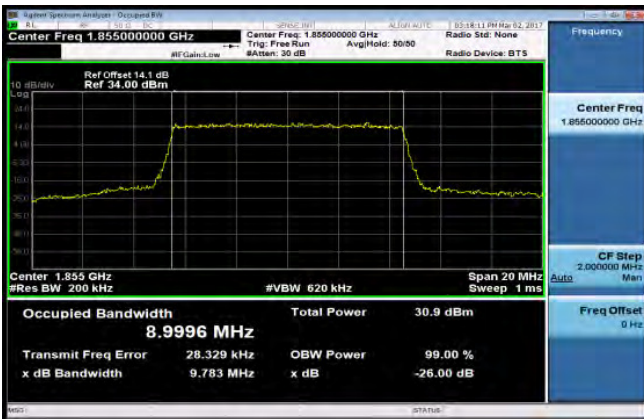


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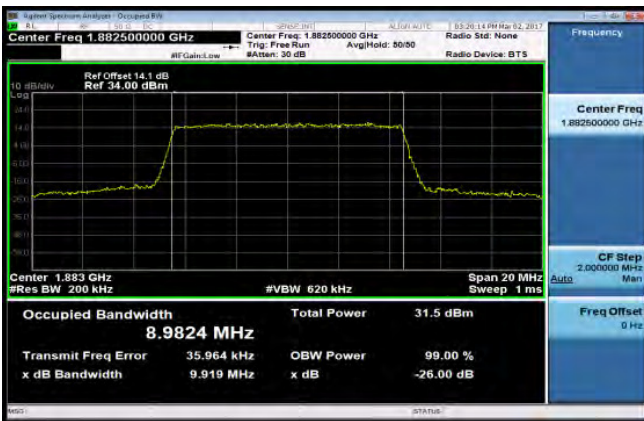
Band25_10MHz_QPSK_50_0_LowCH26090-1855



Band25_10MHz_16QAM_50_0_LowCH26090-1855



Band25_10MHz_QPSK_50_0_MidCH26365-1882.5



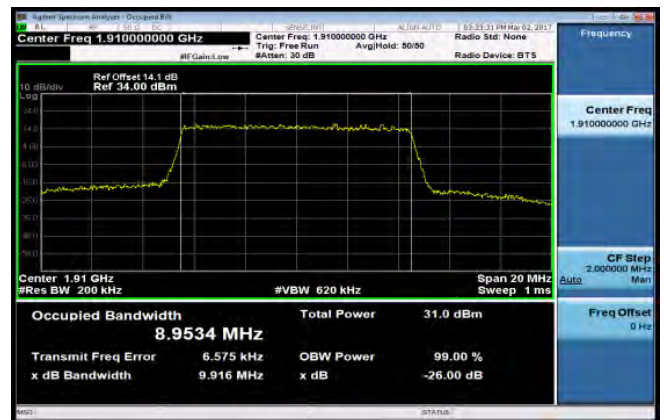
Band25_10MHz_16QAM_50_0_MidCH26365-1882.5



Band25_10MHz_QPSK_50_0_HighCH26640-1910



Band25_10MHz_16QAM_50_0_HighCH26640-1910

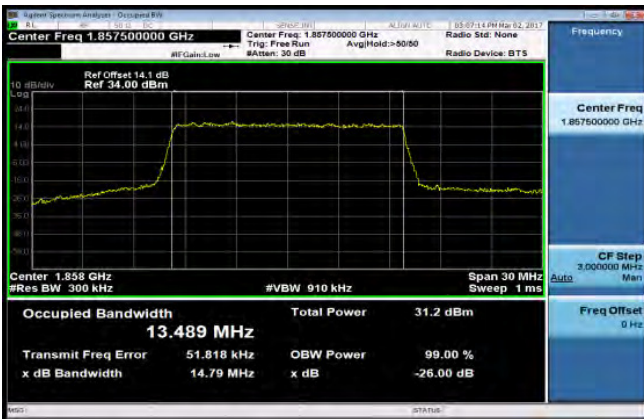


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Band25_15MHz_QPSK_75_0_LowCH26115-1857.5



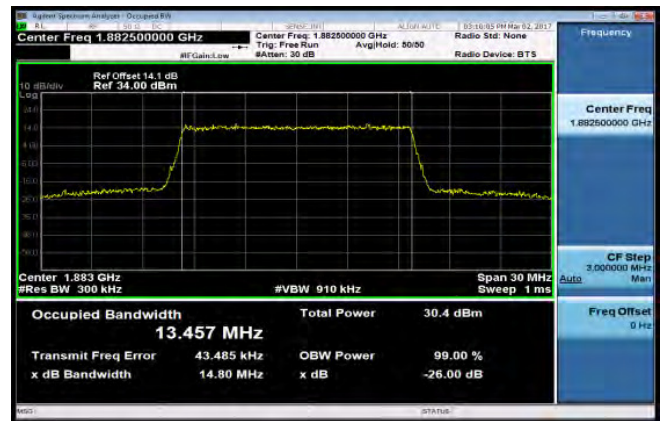
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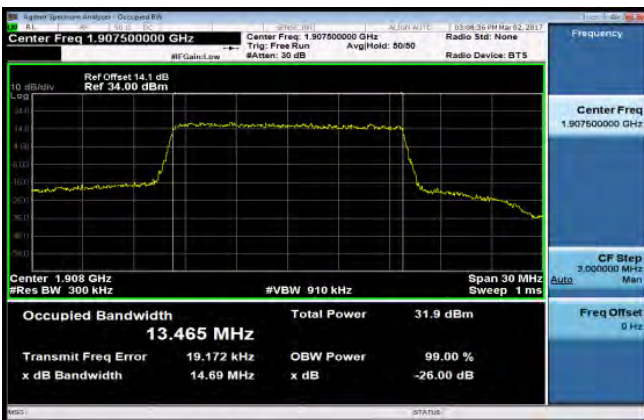
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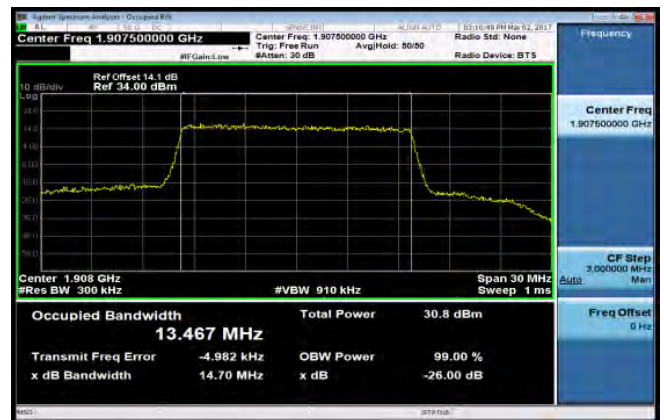
Band25_15MHz_16QAM_75_0_MidCH26365-1882.5



Band25_15MHz_QPSK_75_0_HighCH26615-1907.5



Band25_15MHz_16QAM_75_0_HighCH26615-1907.5

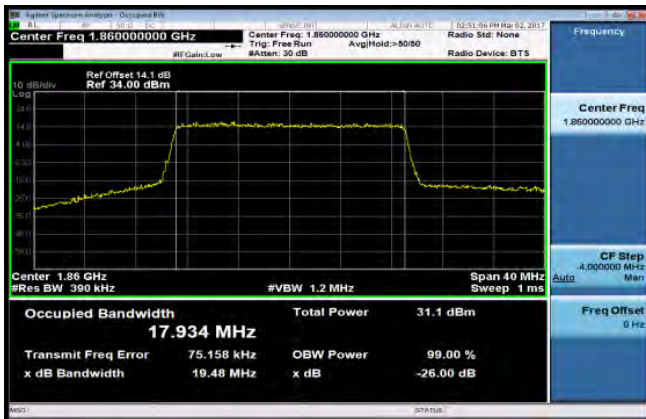


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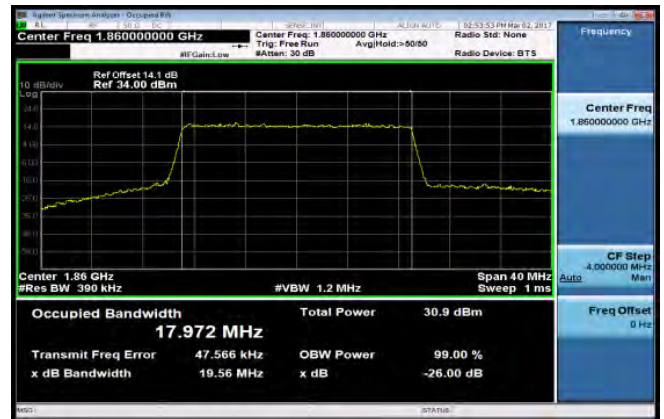
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Band25_20MHz_QPSK_100_0_LowCH26140-1860



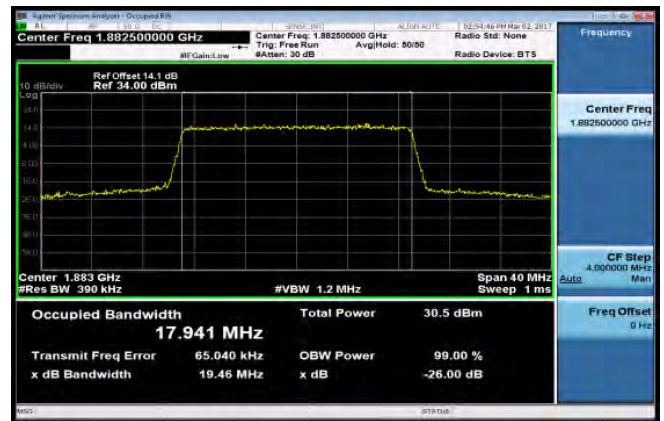
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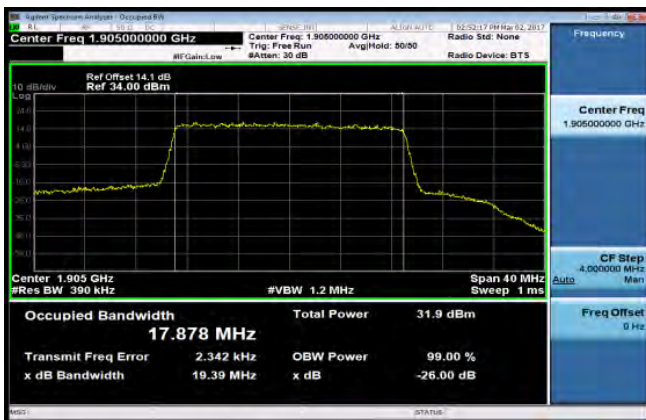
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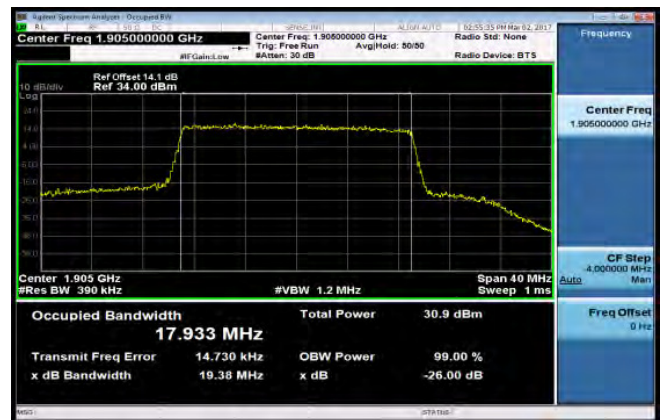
Band25_20MHz_16QAM_100_0_MidCH26365-1882.5



Band25_20MHz_QPSK_100_0_HighCH26590-1905



Band25_20MHz_16QAM_100_0_HighCH26590-1905



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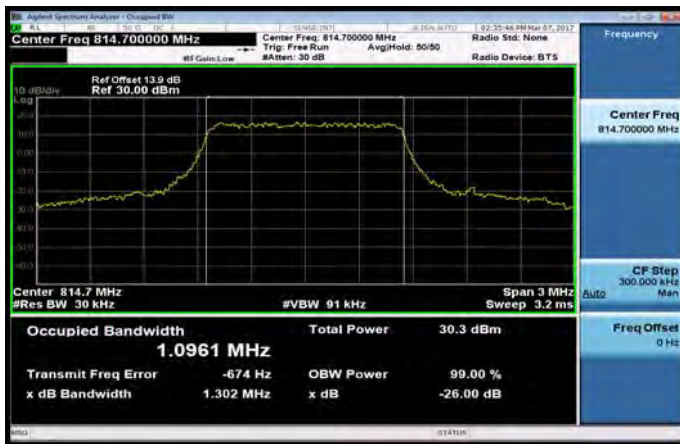
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f (886-2) 2298-0488

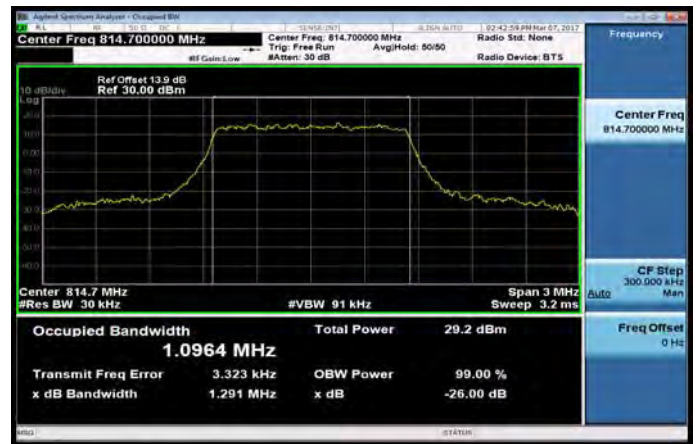
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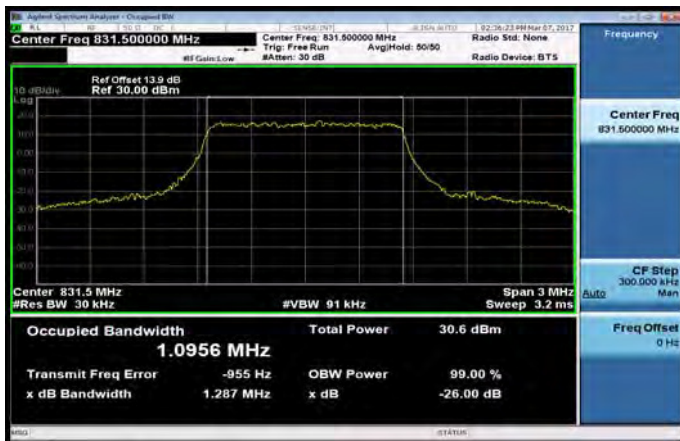
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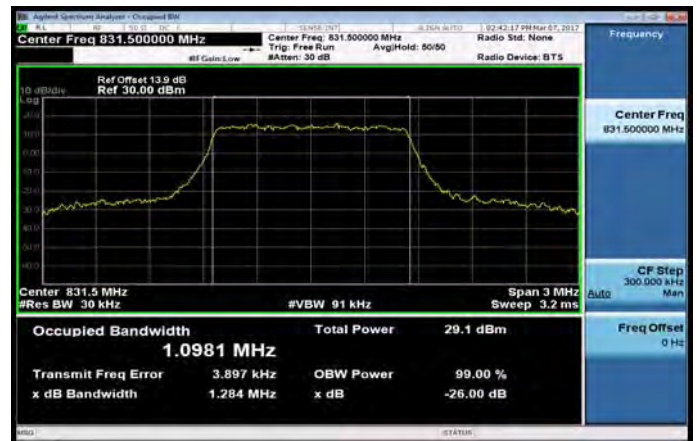
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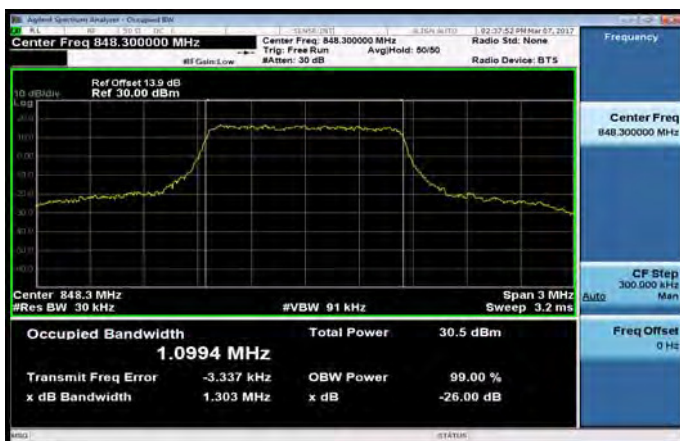
Band26_1.4MHz_QPSK_6_0_MidCH26865-831.5



Band26_1.4MHz_16QAM_6_0_MidCH26865-831.5



Band26_1.4MHz_QPSK_6_0_HighCH27033-848.3



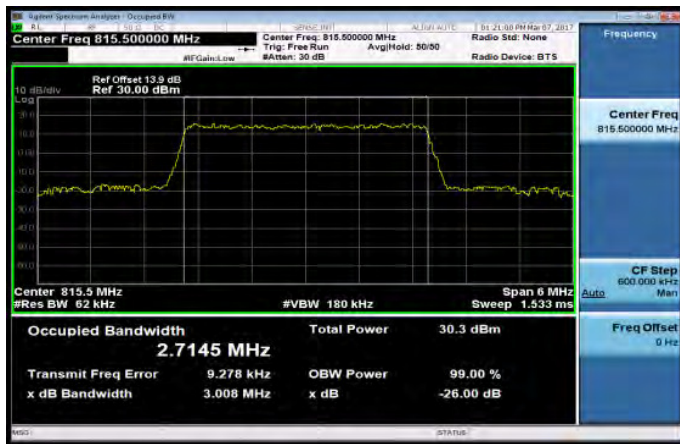
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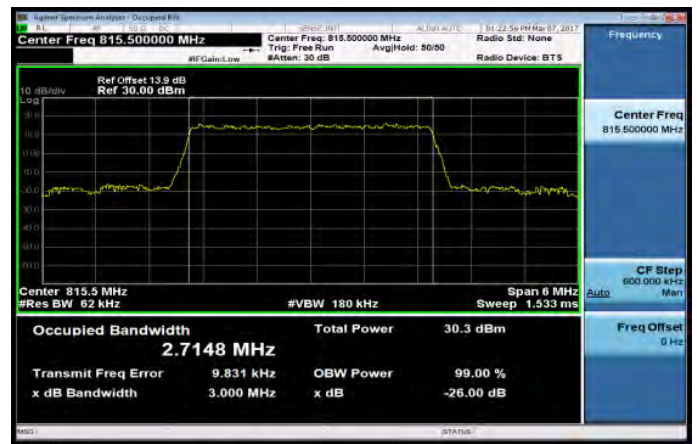
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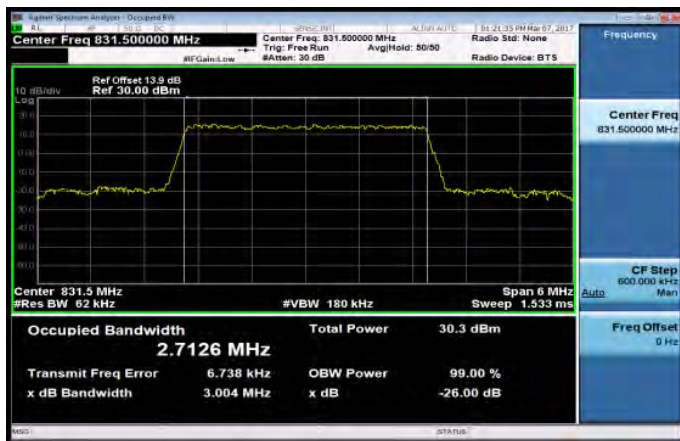
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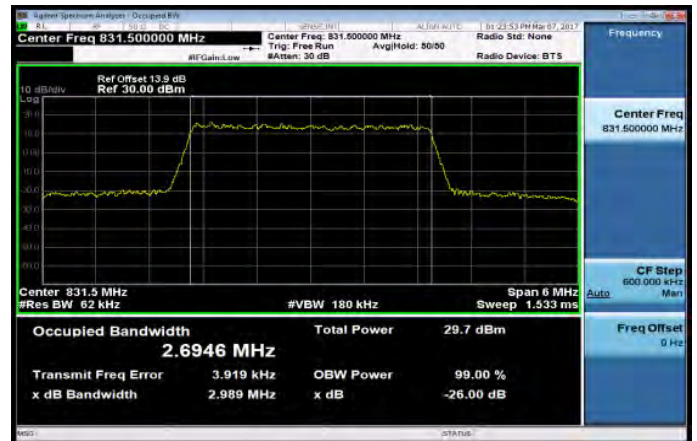
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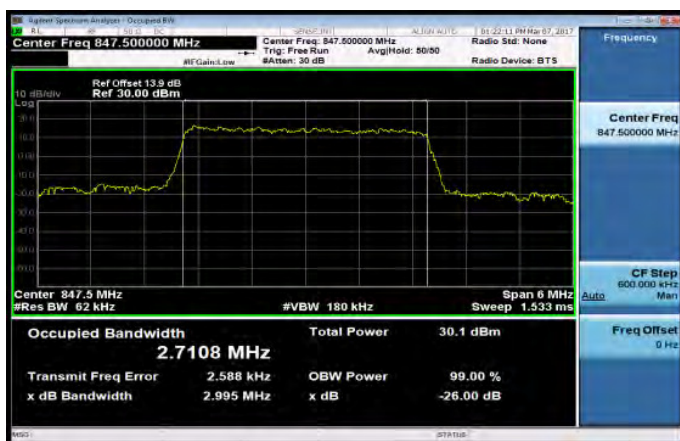
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Band26_3MHz_16QAM_15_0_MidCH26865-831.5



Band26_3MHz_QPSK_15_0_HighCH27025-847.5



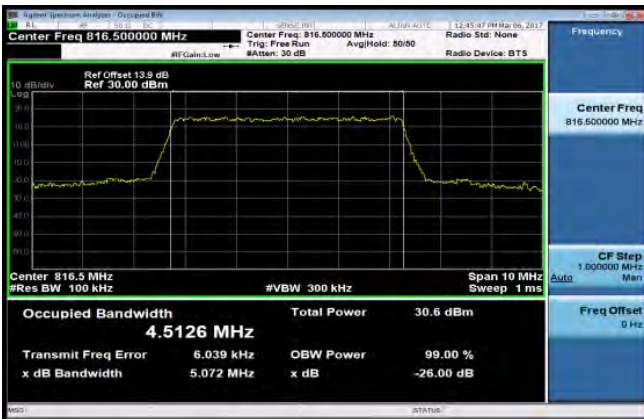
Band26_3MHz_16QAM_15_0_HighCH27025-847.5



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Band26_5MHz_QPSK_25_0_LowCH26715-816.5



Band26_5MHz_16QAM_25_0_LowCH26715-816.5



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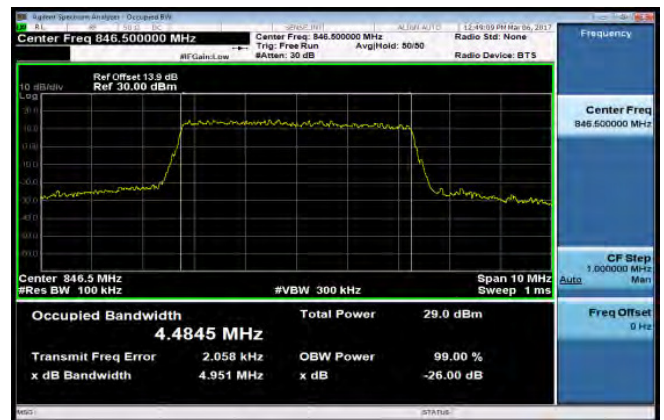
Band26_5MHz_16QAM_25_0_MidCH26865-831.5



Band26_5MHz_QPSK_25_0_HighCH27015-846.5



Band26_5MHz_16QAM_25_0_HighCH27015-846.5



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Band26_10MHz_16QAM_50_0_LowCH26750-820



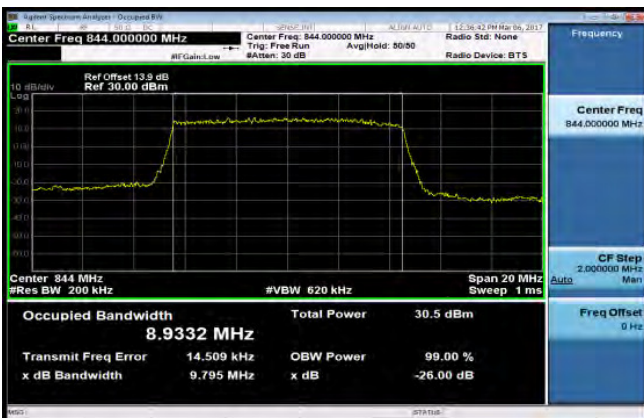
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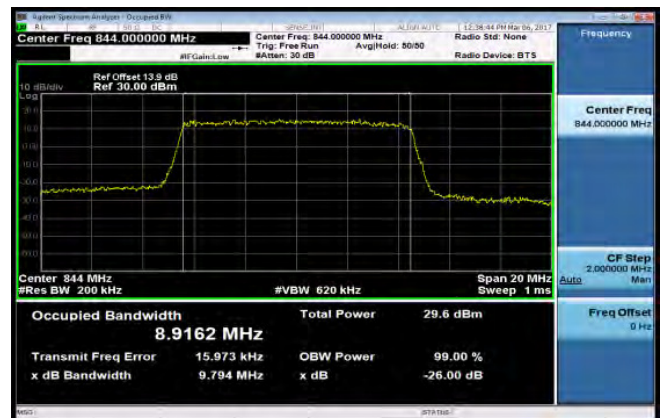
Band26_10MHz_16QAM_50_0_MidCH26865-831.5



Band26_10MHz_QPSK_50_0_HighCH26990-844



Band26_10MHz_16QAM_50_0_HighCH26990-844



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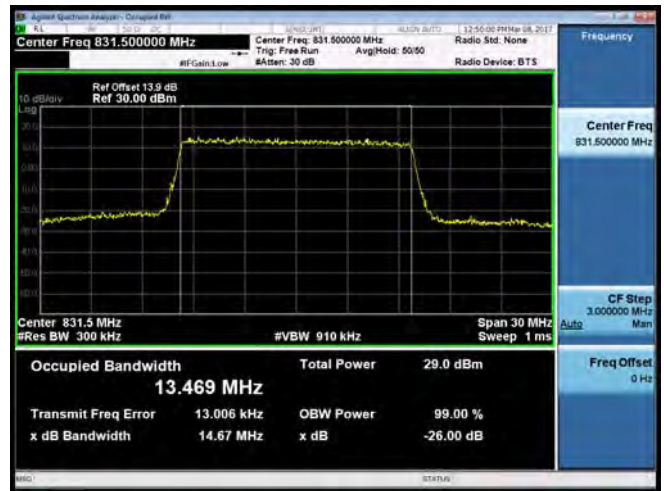
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Band26_15MHz_QPSK_75_0_LowCH26775-822.5



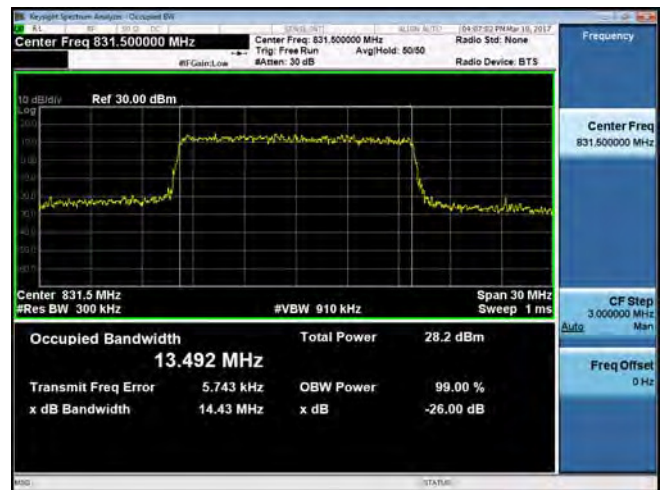
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Band26_15MHz_QPSK_75_0_MidCH26865-831.5



Band26_15MHz_16QAM_75_0_MidCH26865-831.5



Band26_15MHz_QPSK_75_0_HighCH26965-841.5



Band26_15MHz_16QAM_75_0_HighCH26965-841.5



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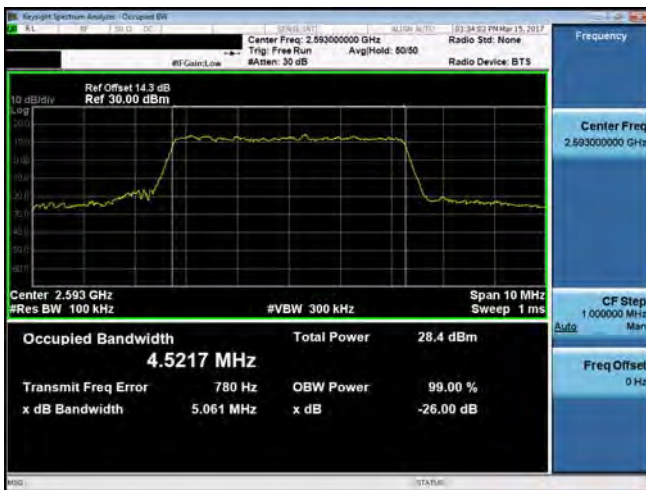
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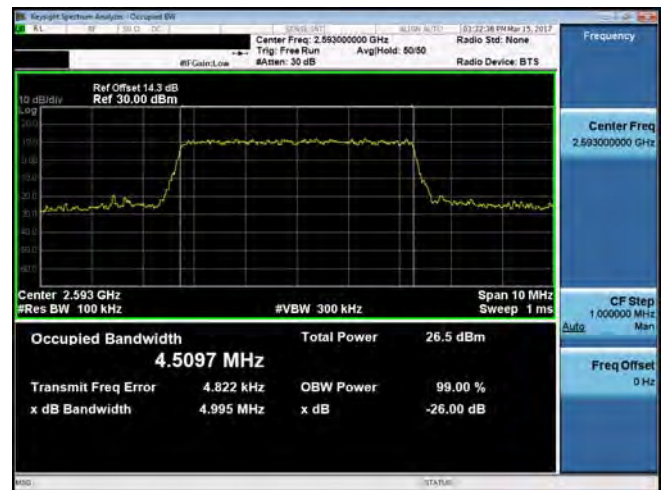
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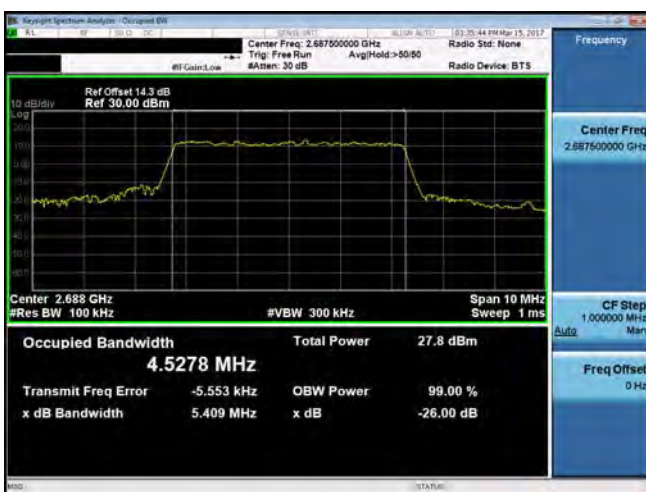
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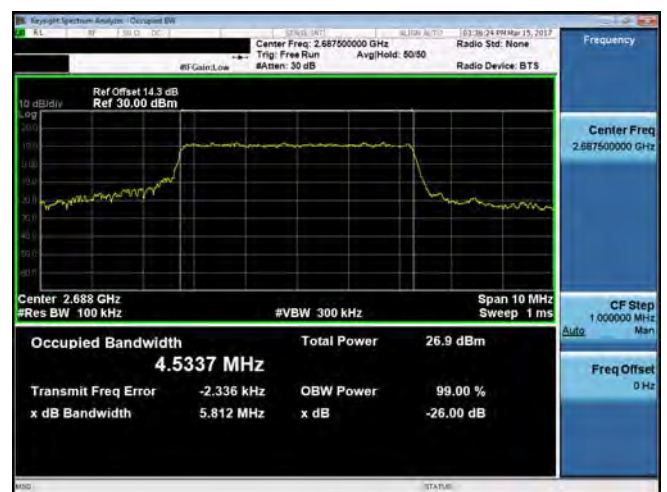
Band41_5MHz_16QAM_25_0_MidCH40620



Band41_5MHz_QPSK_25_0_HighCH41565



Band41_5MHz_16QAM_25_0_HighCH41565



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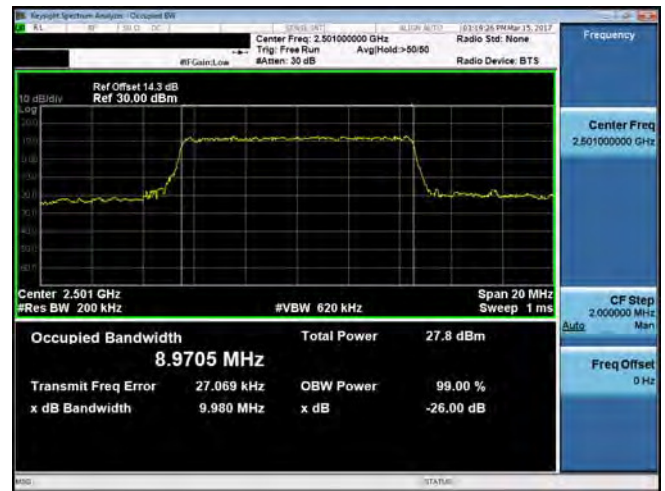
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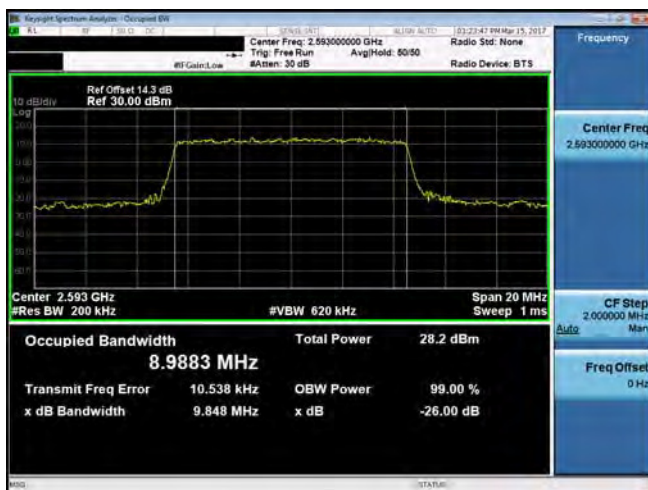
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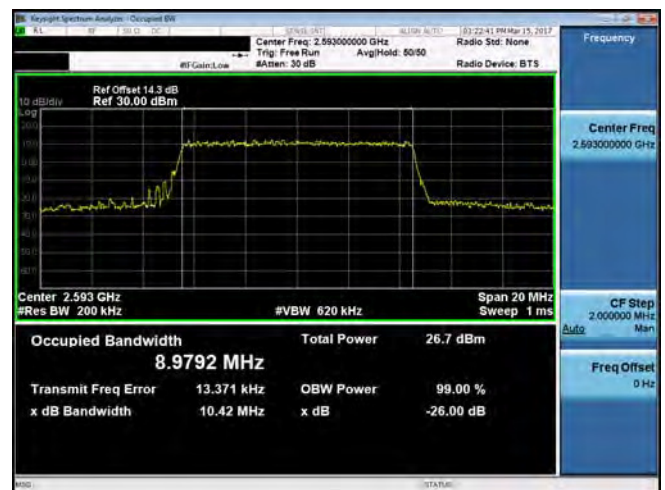
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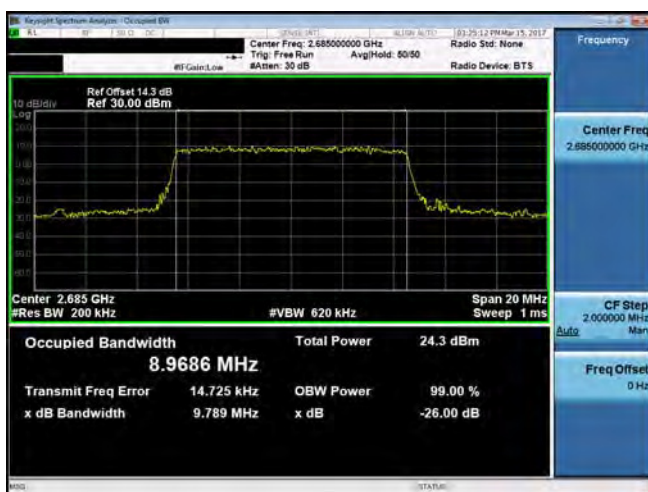
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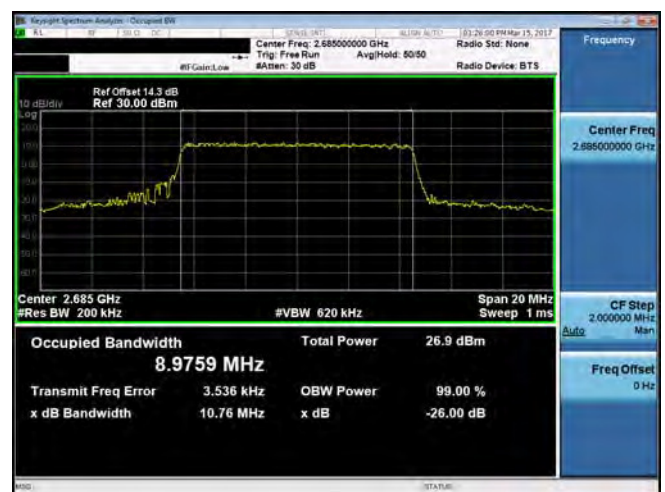
Band41_10MHz_16QAM_50_0_MidCH40620



Band41_10MHz_QPSK_50_0_HighCH41540



Band41_10MHz_16QAM_50_0_HighCH41540

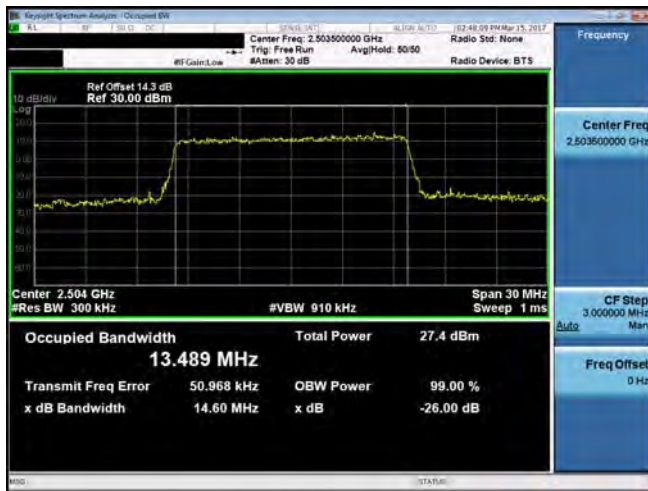


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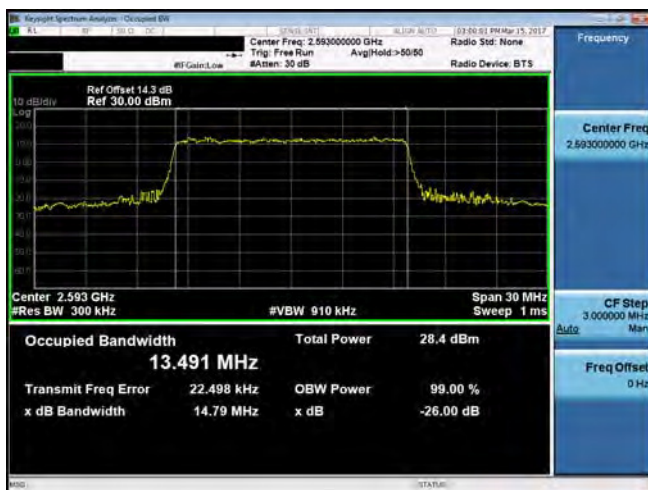
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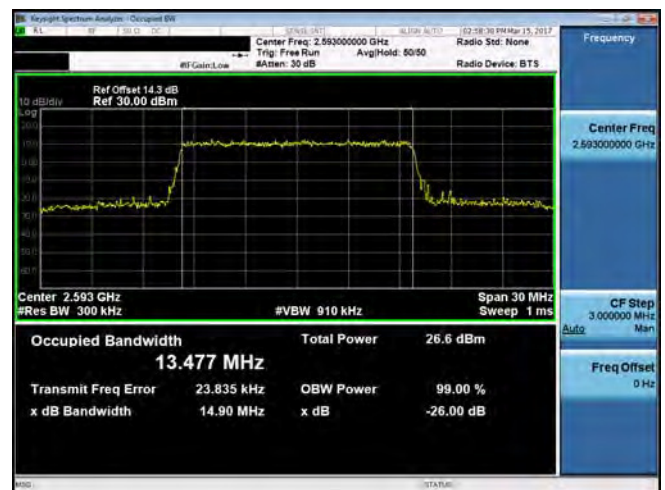
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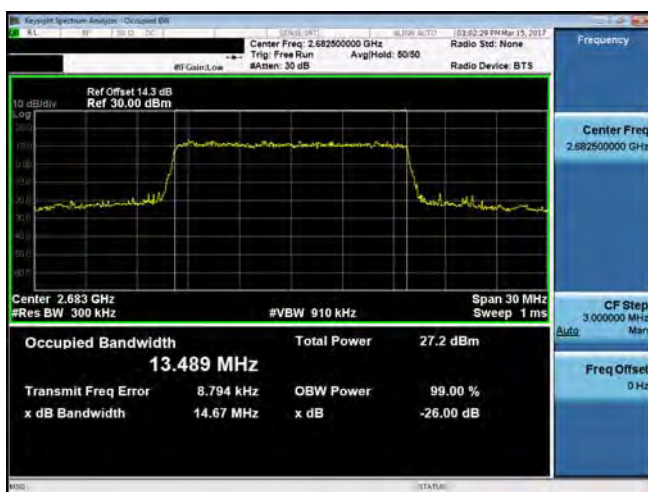
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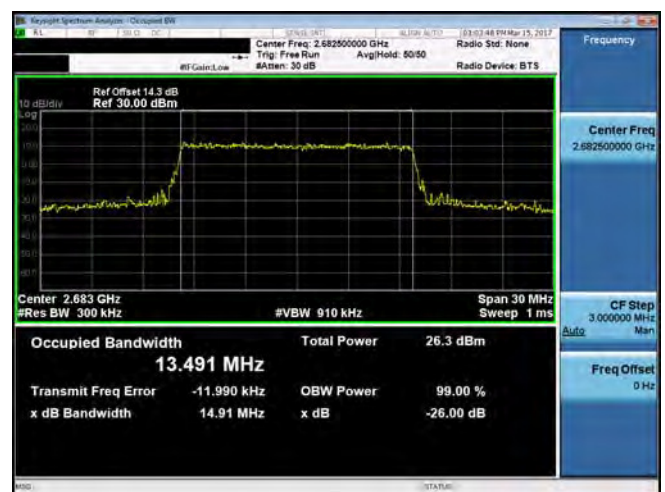
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Band41_15MHz_QPSK_75_0_HighCH41515



Band41_15MHz_16QAM_75_0_HighCH41515

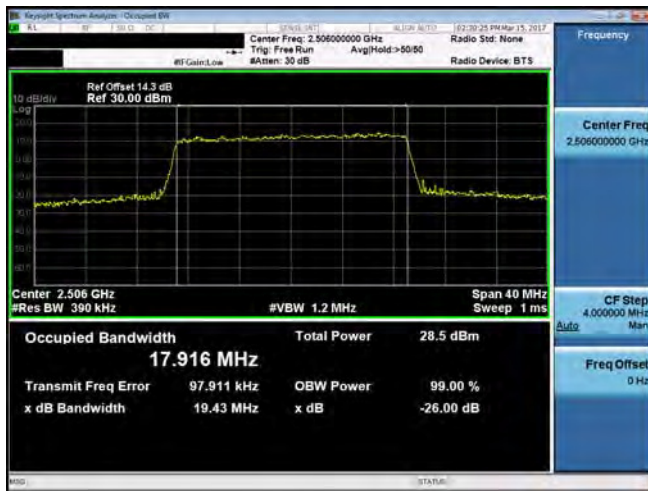


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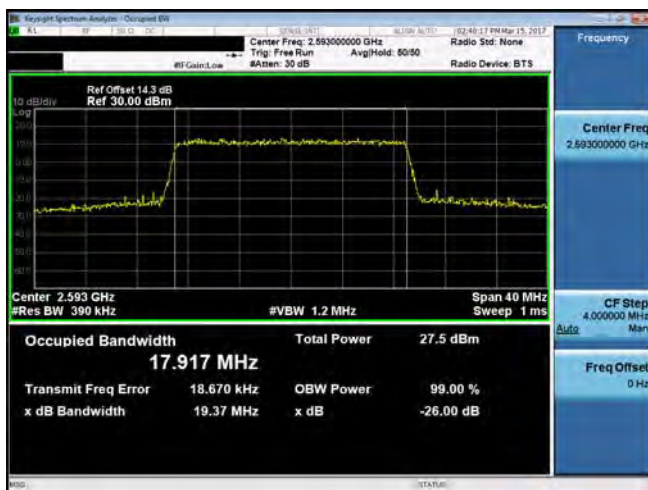
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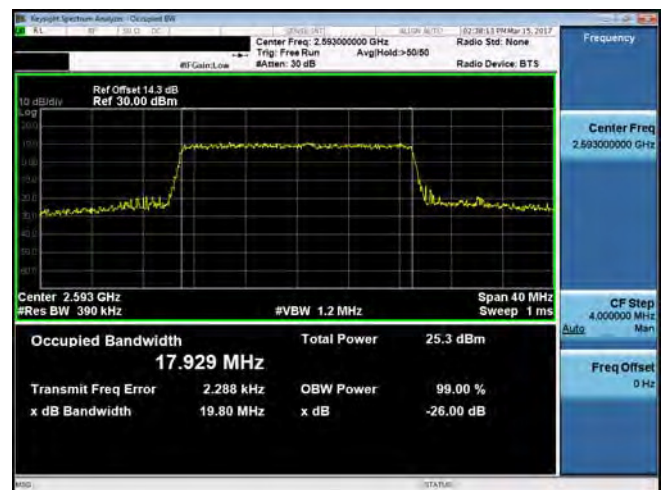
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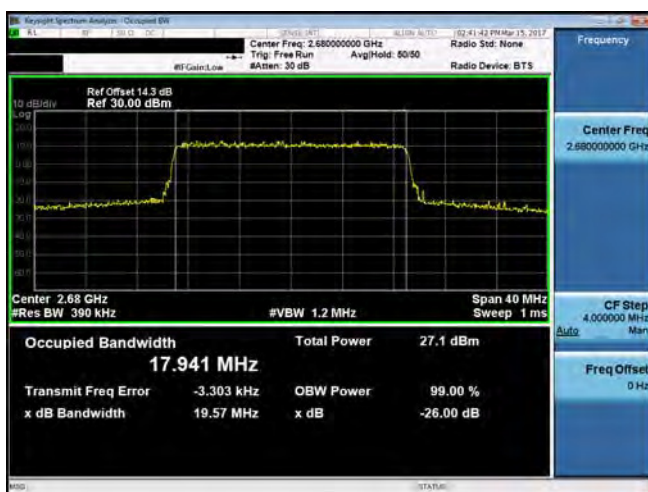
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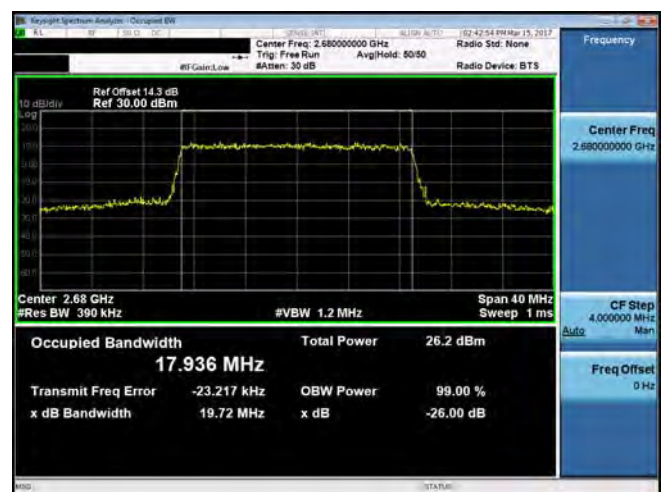
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Band41_20MHz_QPSK_100_0_HighCH41490



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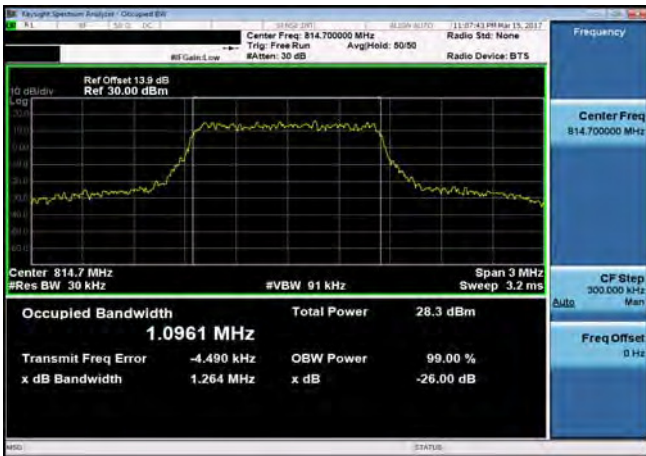
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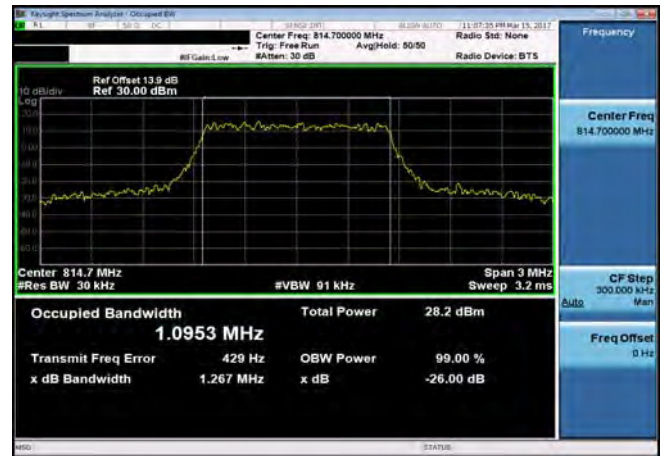
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Band 26 for Part 90S

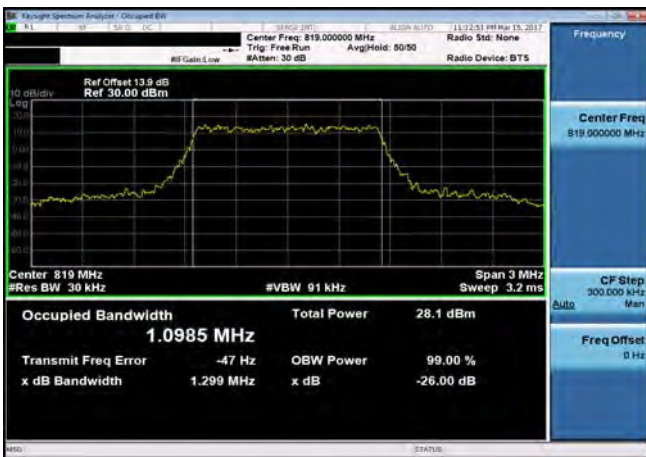
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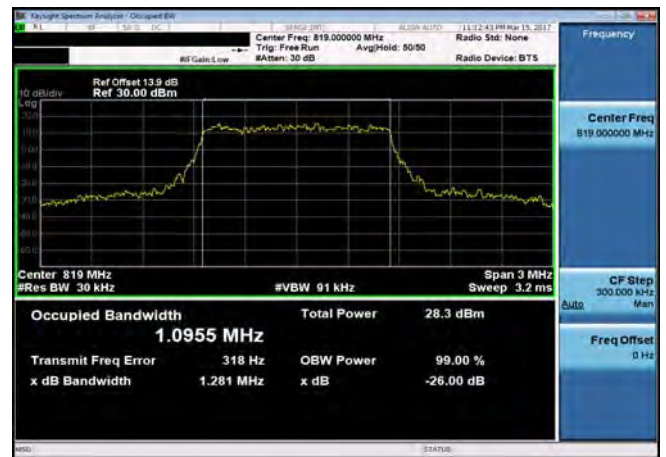
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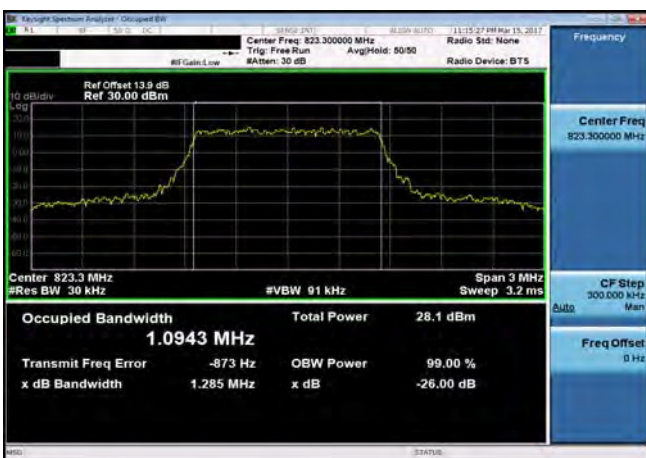
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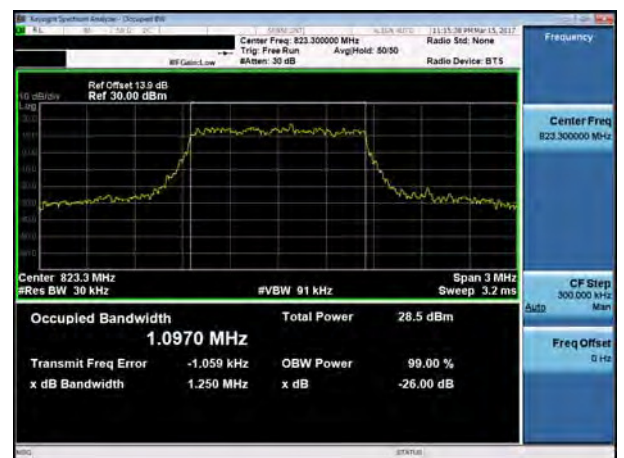
Band26_1.4MHz_16QAM_6_0_MidCH26740



Band26_1.4MHz_QPSK_6_0_HighCH26783



Band26_1.4MHz_16QAM_6_0_HighCH26783



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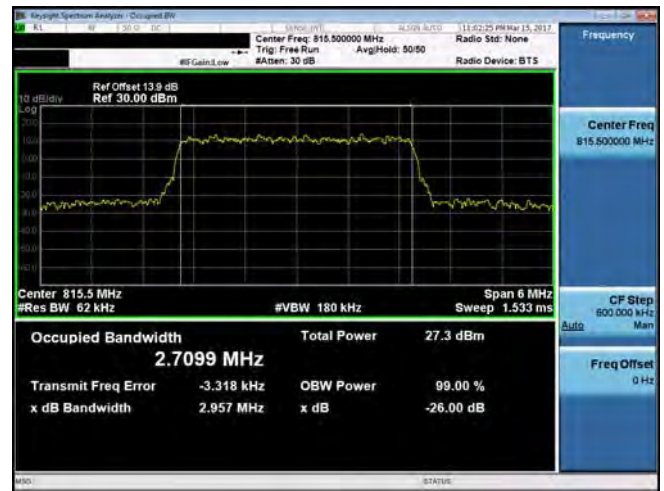
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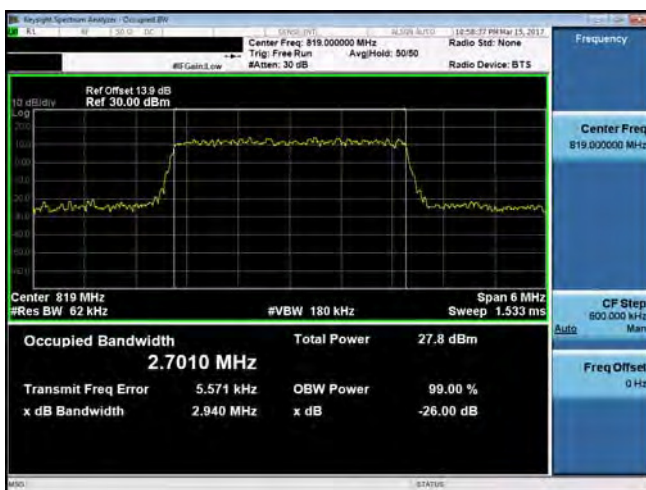
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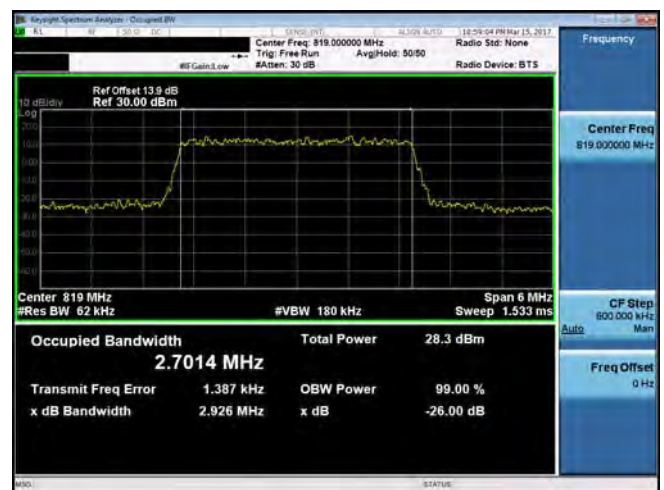
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Band26_3MHz_QPSK_15_0_MidCH26740



Band26_3MHz_16QAM_15_0_MidCH26740



Band26_3MHz_QPSK_15_0_HighCH26775



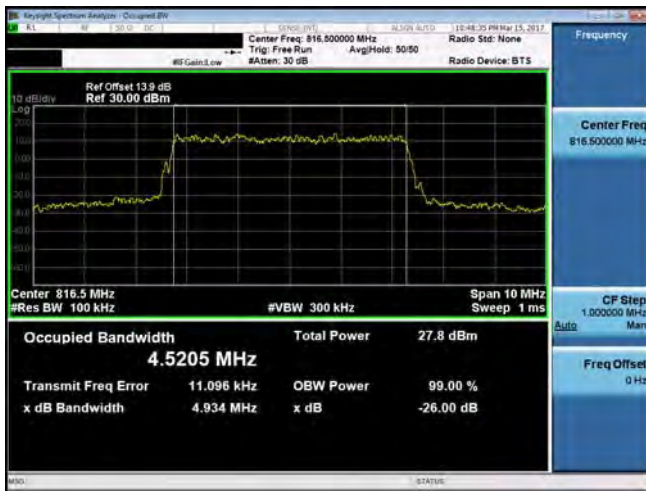
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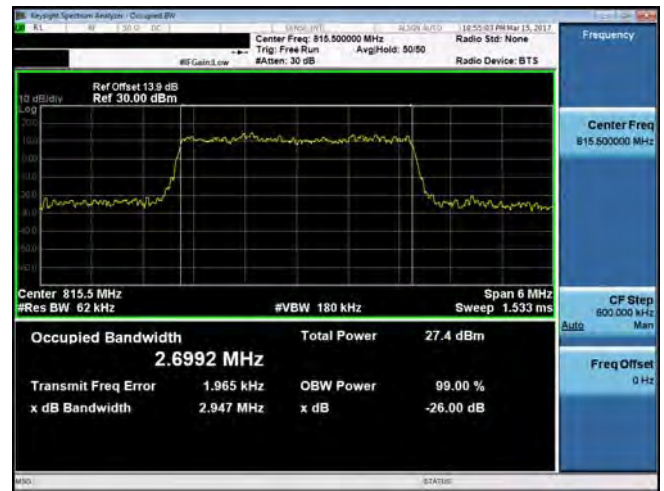
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Band26_5MHz_QPSK_25_0_LowCH26715



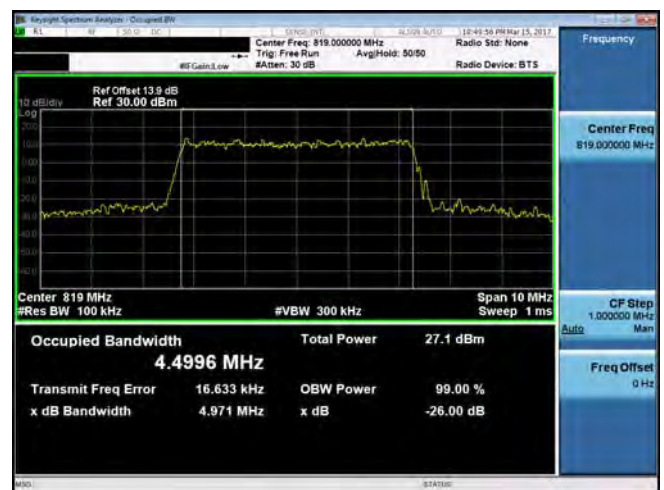
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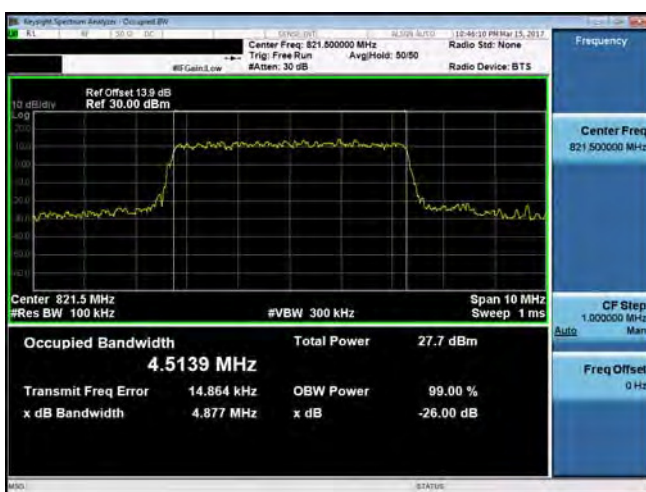
Band26_5MHz_QPSK_25_0_MidCH26740



Band26_5MHz_16QAM_25_0_MidCH26740



Band26_5MHz_QPSK_25_0_HighCH26765



Band26_5MHz_16QAM_25_0_HighCH26765



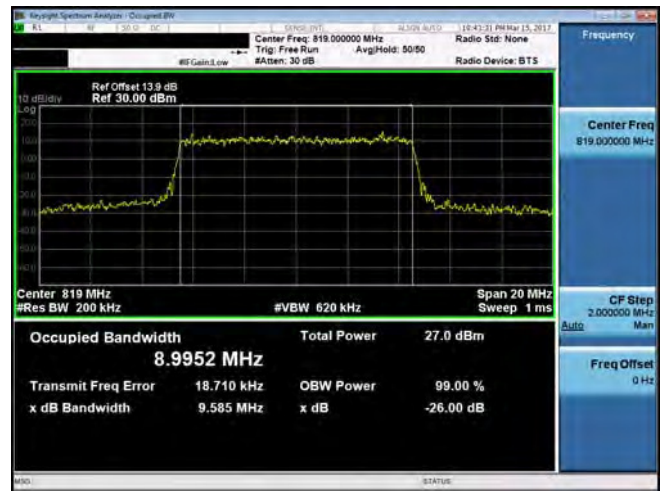
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Band26_10MHz_QPSK_50_0_MidCH26740



Band26_10MHz_16QAM_50_0_MidCH26740



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §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.

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.

§90.691 Emission mask requirements for EA-based systems.

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

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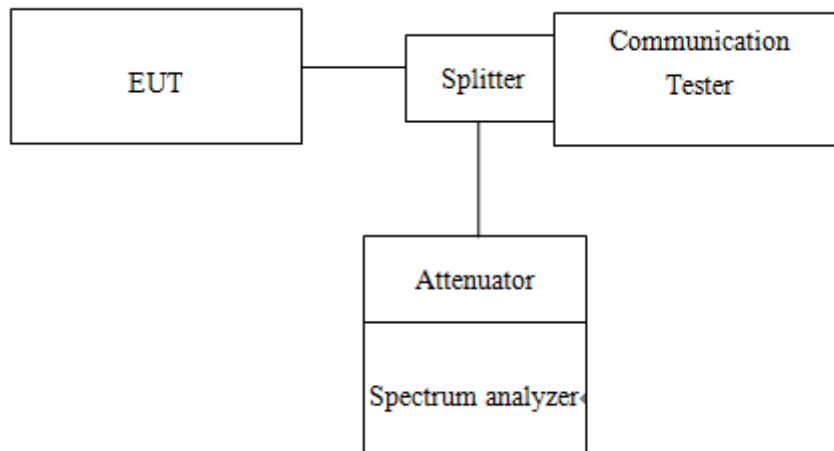
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9.2. Test SET-UP



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	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/16/2016	06/15/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017

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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