ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 24 SUBPART E and PART 27 SUBPART B, C & SUBPART L REQUIREMENT

OF

Product Name:	**Tablet Computer**
Marketing Name:	**GP8**
Brand Name:	**acer**
Model No.:	**A6201**
Model Difference:	**N/A**
FCC ID:	**HLZA6201**
Report No.:	**E2/2016/A0033**
Issue Date:	**Nov. 09, 2016**
FCC Rule Part:	**2 , 24E & 27B, C & L**
Prepared for:	**Acer Incorporated** **8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)**
Prepared by:	**SGS Taiwan Ltd.** **Electronics & Communication Laboratory** **No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333**

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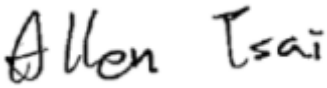
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VERIFICATION OF COMPLIANCE

Applicant:	Acer Incorporated 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City 22181, Taiwan (R.O.C)
Product Name:	Tablet Computer
Marketing Name:	GP8
Brand Name:	acer
Model No.:	A6201
Model Difference:	N/A
FCC ID:	HLZA6201
File Number:	E2/2016/A0033
Date of test:	Oct. 07, 2016 ~ Nov. 04, 2016
Date of EUT Received:	Oct. 07, 2016

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:***	Nov. 09, 2016
	Vito Pei / Sr. Engineer		
Prepared By:		***Date:***	Nov. 09, 2016
	Allen Tsai / Engineer		
Approved By:		***Date:***	Nov. 09, 2016
	Jim Chang / Asst. Manager		

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/A0033	Rev.00	Initial creation of document	Nov. 09, 2016

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Tablet Computer	
Marketing Name:	GP8	
Brand Name:	acer	
Model No.:	A6201	
Model difference:	N/A	
Product SW/HW version:	Acer_AV0M0_A6201_RV10RC01_PA_VERIZON/ V03	
Radio SW/HW version:	MPSS.TA.2.2.c1-00190-8953_GEN_PACK-1 / WCN3660B	
USB Cable:	Model No: 3080199058 Supplier: Component USER INDUCTRY	
WPC Docking:	Model No: WCD02005B Supplier: CWT	
WPC Docking adapter:	Model No: 2AAJ012F Supplier: Channel Well	
Power Supply:	3.8 Vdc from Rechargeable Li-polymer Battery or 5 V from AC/DC Adapter	
	Battery:	Model No.: AP14F8K(1ICP4/101/110), Supplier:LG Chem, Ltd.
	Adapter:	Model No.: NSS050200BU, Supplier: Tamura.

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LTE:

	Operating Frequency		Rated Power
Cellular Phone Standards Frequency Range and 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 7 (5MHz)	2502.5MHz – 2567.5MHz	23dBm
	LTE-Band 7 (10MHz)	2505.0MHz – 2565.0MHz	23dBm
	LTE-Band 7 (15MHz)	2507.5MHz – 2562.5MHz	23dBm
	LTE-Band 7 (20MHz)	2510.0MHz – 2560MHz	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
	LTE-Band 13 (5MHz)	779.5MHz - 784.5MHz	23dBm
	LTE-Band 13 (10MHz)	782.0MHz	23dBm
	LTE-Band 17 (5MHz)	706.5MHz – 713.5MHz	23dBm
	LTE-Band 17 (10MHz)	709.0MHz –711.0MHz	23dBm
IMEI:	352999080016287		

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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	2M71D7W
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	17M9G7D
LTE Band 2	20MHz	16QAM	18M0D7W
LTE Band 4	1.4MHz	QPSK	1M10G7D
LTE Band 4	1.4MHz	16QAM	1M11D7W
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 7	5MHz	QPSK	4M50G7D
LTE Band 7	5MHz	16QAM	4M50D7W
LTE Band 7	10MHz	QPSK	8M99G7D
LTE Band 7	10MHz	16QAM	8M95D7W
LTE Band 7	15MHz	QPSK	13M5G7D
LTE Band 7	15MHz	16QAM	13M5D7W
LTE Band 7	20MHz	QPSK	17M9G7D
LTE Band 7	20MHz	16QAM	17M9D7W
LTE Band 12	1.4MHz	QPSK	1M10G7D
LTE Band 12	1.4MHz	16QAM	1M10D7W
LTE Band 12	3MHz	QPSK	2M70G7D
LTE Band 12	3MHz	16QAM	2M70D7W
LTE Band 12	5MHz	QPSK	4M50G7D
LTE Band 12	5MHz	16QAM	4M50D7W
LTE Band 12	10MHz	QPSK	9M01G7D
LTE Band 12	10MHz	16QAM	8M95D7W
LTE Band 13	5MHz	QPSK	4M91G7D

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LTE Band	BW (MHz)	Modulation	Type of Emission
LTE Band 13	5MHz	16QAM	4M49D7W
LTE Band 13	10MHz	QPSK	8M96G7D
LTE Band 13	10MHz	16QAM	8M92D7W
LTE Band 17	5MHz	QPSK	4M50G7D
LTE Band 17	5MHz	16QAM	4M50D7W
LTE Band 17	10MHz	QPSK	9M01G7D
LTE Band 17	10MHz	16QAM	8M97D7W

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Max ERP/EIRP Power Measurement Result:

	dBm		W
LTE-Band 2 (Bandwidth 1.4MHz) QPSK	**31.96**	EIRP	1.570
LTE-Band 2 (Bandwidth 1.4MHz) 16QAM	**32.24**	EIRP	1.675
LTE-Band 2 (Bandwidth 3MHz) QPSK	**31.56**	EIRP	1.432
LTE-Band 2 (Bandwidth 3MHz) 16QAM	**31.74**	EIRP	1.493
LTE-Band 2 (Bandwidth 5MHz) QPSK	**32.28**	EIRP	1.690
LTE-Band 2 (Bandwidth 5MHz) 16QAM	**32.24**	EIRP	1.675
LTE-Band 2 (Bandwidth 10MHz) QPSK	**32.24**	EIRP	1.675
LTE-Band 2 (Bandwidth 10MHz) 16QAM	**32.27**	EIRP	1.687
LTE-Band 2 (Bandwidth 15MHz) QPSK	**31.92**	EIRP	1.556
LTE-Band 2 (Bandwidth 15MHz) 16QAM	**31.74**	EIRP	1.493
LTE-Band 2 (Bandwidth 20MHz) QPSK	**32.60**	EIRP	1.820
LTE-Band 2 (Bandwidth 20MHz) 16QAM	**32.68**	EIRP	1.854
LTE-Band 4 (Bandwidth 1.4MHz) QPSK	**27.97**	EIRP	0.627
LTE-Band 4 (Bandwidth 1.4MHz) 16QAM	**28.05**	EIRP	0.638
LTE-Band 4 (Bandwidth 3MHz) QPSK	**27.99**	EIRP	0.630
LTE-Band 4 (Bandwidth 3MHz) 16QAM	**27.93**	EIRP	0.621
LTE-Band 4 (Bandwidth 5MHz) QPSK	**28.10**	EIRP	0.646
LTE-Band 4 (Bandwidth 5MHz) 16QAM	**27.90**	EIRP	0.617
LTE-Band 4 (Bandwidth 10MHz) QPSK	**28.09**	EIRP	0.644
LTE-Band 4 (Bandwidth 10MHz) 16QAM	**28.01**	EIRP	0.632
LTE-Band 4 (Bandwidth 15MHz) QPSK	**28.00**	EIRP	0.631
LTE-Band 4 (Bandwidth 15MHz) 16QAM	**28.20**	EIRP	0.661
LTE-Band 4 (Bandwidth 20MHz) QPSK	**28.47**	EIRP	0.703
LTE-Band 4 (Bandwidth 20MHz) 16QAM	**28.50**	EIRP	0.708
LTE-Band 7 (Bandwidth 5MHz) QPSK	**30.38**	EIRP	1.091
LTE-Band 7 (Bandwidth 5MHz) 16QAM	**30.44**	EIRP	1.107
LTE-Band 7 (Bandwidth 10MHz) QPSK	**30.40**	EIRP	1.096
LTE-Band 7 (Bandwidth 10MHz) 16QAM	**29.99**	EIRP	0.998
LTE-Band 7 (Bandwidth 15MHz) QPSK	**30.92**	EIRP	1.236
LTE-Band 7 (Bandwidth 15MHz) 16QAM	**30.32**	EIRP	1.076
LTE-Band 7 (Bandwidth 20MHz) QPSK	**30.97**	EIRP	1.250
LTE-Band 7 (Bandwidth 20MHz) 16QAM	**30.54**	EIRP	1.132

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	dBm		W
LTE-Band 12 (Bandwidth 1.4MHz) QPSK	**24.43**	ERP	0.277
LTE-Band 12 (Bandwidth 1.4MHz) 16QAM	**23.92**	ERP	0.247
LTE-Band 12 (Bandwidth 3MHz) QPSK	**24.54**	ERP	0.284
LTE-Band 12 (Bandwidth 3MHz) 16QAM	**23.87**	ERP	0.244
LTE-Band 12 (Bandwidth 5MHz) QPSK	**24.56**	ERP	0.286
LTE-Band 12 (Bandwidth 5MHz) 16QAM	**23.66**	ERP	0.232
LTE-Band 12 (Bandwidth 10MHz) QPSK	**20.94**	ERP	0.124
LTE-Band 12 (Bandwidth 10MHz) 16QAM	**20.16**	ERP	0.104
LTE-Band 13 (Bandwidth 5MHz) QPSK	**28.06**	ERP	0.640
LTE-Band 13 (Bandwidth 5MHz) 16QAM	**27.66**	ERP	0.583
LTE-Band 13 (Bandwidth 10MHz) QPSK	**27.38**	ERP	0.547
LTE-Band 13 (Bandwidth 10MHz) 16QAM	**27.16**	ERP	0.520
LTE-Band 17 (Bandwidth 5MHz) QPSK	**23.96**	ERP	0.249
LTE-Band 17 (Bandwidth 5MHz) 16QAM	**23.68**	ERP	0.233
LTE-Band 17 (Bandwidth 10MHz) QPSK	**24.09**	ERP	0.256
LTE-Band 17 (Bandwidth 10MHz) 16QAM	**23.29**	ERP	0.213

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1.2. Test Methodology of Applied Standards

FCC 47 CFR Part 2, 24, 27

ANSI / TIA / EIA 603-D-2010

KDB971168 D01 Power Meas license Digital System

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.

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2.4. Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

Following shows an offset computation example with cable loss 1 dB for low band and 1 for high band with 10 dB attenuator and 3.2 splitter.

Low Band: Offset = RF cable loss (dB)+splitter(dB)+ attenuation factor(dB) =10.9+3.2+10=24.1 (dB)

High Band: Offset = RF cable loss (dB)+ splitter(dB)+ attenuation factor(dB) =11.3+3.2+10=24.5 (dB)

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2_1.4M QPSK	3.8Vdc	891
LTE Band 2_1.4M 16QAM	3.8Vdc	920
LTE Band 2_3M QPSK	3.8Vdc	894
LTE Band 2_3M 16QAM	3.8Vdc	914
LTE Band 2_5M QPSK	3.8Vdc	903
LTE Band 2_5M 16QAM	3.8Vdc	914
LTE Band 2_10M QPSK	3.8Vdc	901
LTE Band 2_10M 16QAM	3.8Vdc	906
LTE Band 2_15M QPSK	3.8Vdc	896
LTE Band 2_15M 16QAM	3.8Vdc	913
LTE Band 2_20M QPSK	3.8Vdc	935
LTE Band 2_20M 16QAM	3.8Vdc	942

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 4_1.4M QPSK	3.8Vdc	881
LTE Band 4_1.4M 16QAM	3.8Vdc	852
LTE Band 4_3M QPSK	3.8Vdc	962
LTE Band 4_3M 16QAM	3.8Vdc	964
LTE Band 4_5M QPSK	3.8Vdc	926
LTE Band 4_5M 16QAM	3.8Vdc	921
LTE Band 4_10M QPSK	3.8Vdc	913
LTE Band 4_10M 16QAM	3.8Vdc	900
LTE Band 4_15M QPSK	3.8Vdc	907
LTE Band 4_15M 16QAM	3.8Vdc	898
LTE Band 4_20M QPSK	3.8Vdc	993
LTE Band 4_20M 16QAM	3.8Vdc	966

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 7_5M QPSK	3.8Vdc	879
LTE Band 7_5M 16QAM	3.8Vdc	894
LTE Band 7_10M QPSK	3.8Vdc	891
LTE Band 7_10M 16QAM	3.8Vdc	882
LTE Band 7_15M QPSK	3.8Vdc	895
LTE Band 7_15M 16QAM	3.8Vdc	883
LTE Band 7_20M QPSK	3.8Vdc	916
LTE Band 7_20M 16QAM	3.8Vdc	905

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Test Mode	DC voltage (V)	DC current (mA)
LTE Band 12_1.4M QPSK	3.8Vdc	746
LTE Band 12_1.4M 16QAM	3.8Vdc	723
LTE Band 12_3M QPSK	3.8Vdc	743
LTE Band 12_3M 16QAM	3.8Vdc	739
LTE Band 12_5M QPSK	3.8Vdc	752
LTE Band 12_5M 16QAM	3.8Vdc	728
LTE Band 12_10M QPSK	3.8Vdc	764
LTE Band 12_10M 16QAM	3.8Vdc	784

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 13_5M QPSK	3.8Vdc	779
LTE Band 13_5M 16QAM	3.8Vdc	764
LTE Band 13_10M QPSK	3.8Vdc	814
LTE Band 13_10M 16QAM	3.8Vdc	798

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 17_5M QPSK	3.8Vdc	651
LTE Band 17_5M 16QAM	3.8Vdc	657
LTE Band 17_10M QPSK	3.8Vdc	686
LTE Band 17_10M 16QAM	3.8Vdc	668

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2.6. Configuration of Tested System

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

4G

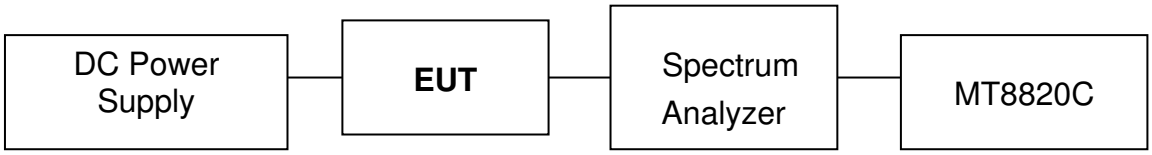
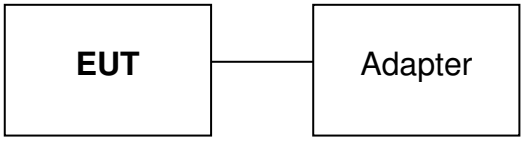


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

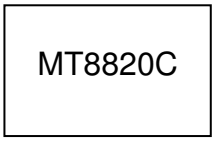


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded

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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) §24.232(c) §27.50(b)(9) §27.50(c)(9) §27.50(d)(4) §27.50(h)(2)	ERP/ EIRP measure-ment	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spu-rious Radiation	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §24.235 §27.54	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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

BAND	ERP/EIRP	RADIATED EMISSION and Wireless charging Cover
LTE Band 2	E1-plan	E1-plan
LTE Band 4	E1-plan	E1-plan
LTE Band 7	E1-plan	E1-plan
LTE Band 12	E2-plan	E2-plan
LTE Band 13	E2-plan	E2-plan
LTE Band 17	E2-plan	E2-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 AV-ERAGE 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
CONDCUDETED 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	18700 to 19100	18700, 18900, 19100	20MHz	16QAM	1 RB, 99 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 AV-ERAGE 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
CONDCUDETED 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	20050 to 20300	20050, 20175, 20300	20MHz	16QAM	1 RB, 99 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM	Full RB
PEAK TO AV-ERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK,	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK,	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20850 to 21350	20850, 21100, 21350	20MHz	QPSK,	1 RB,

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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
PEAK TO AV-ERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	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
CONDCUDETED 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	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 24 RB Offest

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LTE Band 13 MODE

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

LTE Band 17 MODE

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

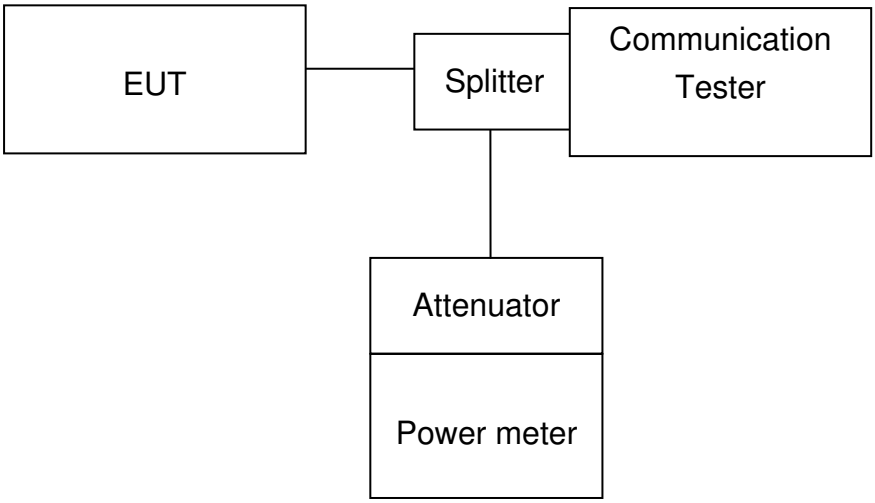
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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

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 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.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Ana-lyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

6.5. Measurement Result

RF Conducted Output Power

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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	23.34	23.26	23.43	22.45	22.56	**22.63**
	1	5	23.44	23.29	23.47	22.18	22.33	22.43
	3	2	**23.58**	23.32	23.46	22.27	22.30	22.61
	6	0	22.51	22.38	22.55	21.37	21.23	21.37

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	23.40	23.43	22.43	21.94	22.08
	1	14	**23.52**	23.30	23.37	22.29	**22.44**	22.17
	8	4	22.42	22.28	22.46	21.40	21.26	21.32
	15	0	22.47	22.35	22.52	21.52	21.25	21.35

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	23.47	23.25	23.49	22.45	**22.54**	22.42
	1	24	23.06	23.38	**23.50**	22.03	22.53	22.21
	12	6	22.38	22.26	22.57	21.44	21.26	21.41
	25	0	22.47	22.19	22.51	21.45	21.24	21.46

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	23.34	23.15	23.35	**22.74**	22.48	22.29
	1	49	23.31	23.43	**23.61**	22.05	22.24	22.39
	25	12	22.30	22.41	22.46	21.23	21.23	21.35
	50	0	22.31	22.40	22.45	21.26	21.29	21.42

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	**23.69**	23.19	23.52	22.23	22.53	22.13
	1	74	23.23	23.50	23.58	**22.64**	22.27	22.15
	36	19	22.16	22.41	22.42	21.01	21.27	21.37
	75	0	22.40	22.39	22.50	21.21	21.23	21.34

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	**23.62**	23.43	23.40	**22.70**	22.11	22.63
	1	99	23.27	23.53	23.43	22.06	22.68	22.31
	50	25	22.30	22.42	22.44	21.19	21.30	21.36
	100	0	22.40	22.54	22.52	21.21	21.36	21.42

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LTE Band 4

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393	Channel (Low) 19957	Channel (Mid) 20175	Channel (High) 20393
1.4	1	0	23.43	23.57	23.25	22.63	22.42	22.42
	1	5	23.57	**23.66**	23.60	22.55	22.67	**22.86**
	3	2	23.45	23.63	23.51	22.61	22.63	22.37
	6	0	22.15	22.71	22.33	21.43	21.67	21.47

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385	Channel (Low) 19965	Channel (Mid) 20175	Channel (High) 20385
3	1	0	23.54	23.63	23.44	22.06	22.29	22.32
	1	14	23.20	**23.67**	23.53	22.30	22.51	**22.66**
	8	4	22.83	22.62	22.53	21.32	21.47	21.57
	15	0	22.78	22.68	22.48	21.27	21.60	21.74

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375	Channel (Low) 19975	Channel (Mid) 20175	Channel (High) 20375
5	1	0	**23.62**	23.58	23.43	22.35	22.72	22.74
	1	24	23.22	23.60	23.44	22.33	22.54	**23.00**
	12	6	22.37	22.62	22.62	21.46	21.76	21.44
	25	0	22.30	22.62	22.58	21.88	21.58	21.51

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350	Channel (Low) 20000	Channel (Mid) 20175	Channel (High) 20350
10	1	0	23.26	**23.76**	23.56	22.40	**22.91**	22.54
	1	49	23.56	23.62	23.37	22.83	22.15	22.49
	25	12	22.47	22.61	22.58	21.45	21.62	21.60
	50	0	22.53	22.77	23.00	21.53	21.67	21.61

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325	Channel (Low) 20025	Channel (Mid) 20175	Channel (High) 20325
15	1	0	23.47	23.77	23.56	22.72	22.65	**22.98**
	1	74	23.52	23.57	**24.00**	22.64	22.58	22.56
	36	19	22.66	22.65	22.70	21.52	21.73	21.52
	75	0	22.68	22.69	22.71	21.59	21.78	21.72

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300	Channel (Low) 20050	Channel (Mid) 20175	Channel (High) 20300
20	1	0	23.50	23.83	23.63	22.21	**22.94**	22.86
	1	99	23.54	23.69	**23.93**	22.57	22.02	22.28
	50	25	22.74	22.77	22.71	21.70	21.79	21.62
	100	0	22.89	22.75	22.79	21.85	21.68	21.73

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LTE Band 7

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425	Channel (Low) 20775	Channel (Mid) 21100	Channel (High) 21425
5	1	0	23.22	23.29	23.18	21.87	**22.35**	22.25
	1	24	23.04	**23.67**	23.08	21.81	22.26	22.32
	12	6	22.06	22.42	22.21	21.21	21.53	21.22
	25	0	21.99	22.49	22.20	21.17	21.48	21.24

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400	Channel (Low) 20800	Channel (Mid) 21100	Channel (High) 21400
10	1	0	**23.37**	23.16	23.25	22.31	22.34	22.26
	1	49	23.15	23.36	23.20	21.94	**22.37**	22.27
	25	12	22.09	22.47	22.27	21.17	21.47	21.31
	50	0	22.08	22.65	22.27	21.12	21.42	21.36

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375	Channel (Low) 20825	Channel (Mid) 21100	Channel (High) 21375
15	1	0	23.10	23.21	23.30	21.86	22.04	22.40
	1	74	23.15	**23.41**	23.20	**22.57**	22.15	22.45
	36	19	22.20	22.45	22.31	21.08	21.49	21.33
	75	0	22.19	22.44	22.22	21.18	21.47	21.27

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350	Channel (Low) 20850	Channel (Mid) 21100	Channel (High) 21350
20	1	0	23.27	23.45	23.45	22.33	**22.52**	22.12
	1	99	23.19	**23.51**	23.35	22.08	21.81	22.34
	50	25	22.28	22.51	22.41	21.25	21.52	21.34
	100	0	22.25	22.49	22.31	21.27	21.47	21.39

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) 23017	Channel (Mid) 23095	Channel (High) 23173	Channel (Low) 23017	Channel (Mid) 23095	Channel (High) 23173
1.4	1	0	22.88	22.83	23.11	21.71	22.14	21.67
	1	5	23.03	23.09	23.19	21.71	21.79	21.54
	3	2	23.04	**23.40**	23.29	22.01	22.13	**22.19**
	6	0	22.05	22.16	22.25	20.95	21.01	21.20

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165	Channel (Low) 23025	Channel (Mid) 23095	Channel (High) 23165
3	1	0	22.96	23.05	23.18	21.94	21.81	22.35
	1	14	23.05	23.13	**23.20**	21.62	22.24	**22.52**
	8	4	21.96	22.25	22.17	20.99	21.29	21.32
	15	0	21.96	22.19	22.25	20.92	20.91	21.18

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155	Channel (Low) 23035	Channel (Mid) 23095	Channel (High) 23155
5	1	0	22.89	22.95	**23.20**	22.20	22.36	22.22
	1	24	23.14	23.04	23.11	**22.47**	22.02	22.21
	12	6	22.08	22.24	22.19	21.09	21.38	21.07
	25	0	22.00	21.93	22.21	20.70	21.34	21.14

LTE Band 12_Uplink frequency band : 699 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130	Channel (Low) 23060	Channel (Mid) 23095	Channel (High) 23130
10	1	0	22.93	22.96	23.05	22.18	**22.26**	22.21
	1	49	**23.31**	23.19	23.12	22.12	22.10	21.84
	25	12	22.03	22.04	22.08	20.99	21.09	21.12
	50	0	22.27	22.10	22.23	21.33	21.08	21.15

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LTE Band 13

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16 QAM		
			Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255	Channel (Low) 23205	Channel (Mid) 23230	Channel (High) 23255
5	1	0	22.87	22.97	23.23	22.22	22.03	22.26
	1	24	23.05	23.10	**23.55**	22.16	**22.30**	21.89
	12	6	22.33	22.12	22.15	21.45	21.29	21.19
	25	0	22.24	22.13	22.11	20.77	21.22	21.16

LTE Band 13_Uplink frequency band : 777 to 787 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16 QAM		
				Channel (Mid) 23230			Channel (Mid) 23230	
10	1	0		23.19			23.19	
	1	49		**23.26**			**23.26**	
	25	12		22.08			22.08	
	50	0		22.22			22.22	

LTE Band 17

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825	Channel (Low) 23755	Channel (Mid) 23790	Channel (High) 23825
5	1	0	22.84	23.14	23.04	22.22	22.10	21.55
	1	24	23.14	**23.15**	23.07	**22.23**	**22.23**	21.94
	12	6	22.07	22.08	22.13	21.20	21.13	21.19
	25	0	22.07	22.11	22.06	21.15	21.12	21.19

LTE Band 17_Uplink frequency band : 704 to 716 MHz								
BW (MHz)	RB Size	RB Offset	Conducted power(dBm)					
			QPSK			16QAM		
			Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800	Channel (Low) 23780	Channel (Mid) 23790	Channel (High) 23800
10	1	0	22.76	22.68	23.07	21.62	21.83	22.05
	1	49	**23.17**	23.06	23.08	**22.40**	21.62	22.03
	25	12	22.14	22.14	21.94	21.13	21.15	20.97
	50	0	22.11	22.15	22.19	21.04	21.05	21.05

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7. EFFECTIVE RADIATED POWER AND EQUIVALENT ISOTROPIC RADIATED POWER MEASUREMENT

7.1. Standard Applicable

According to FCC §2.1046

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

FCC 27.50 (b)(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands and fixed stations transmitting in the 787-788 MHz and 805-806 MHz bands are limited to 30 watts ERP.

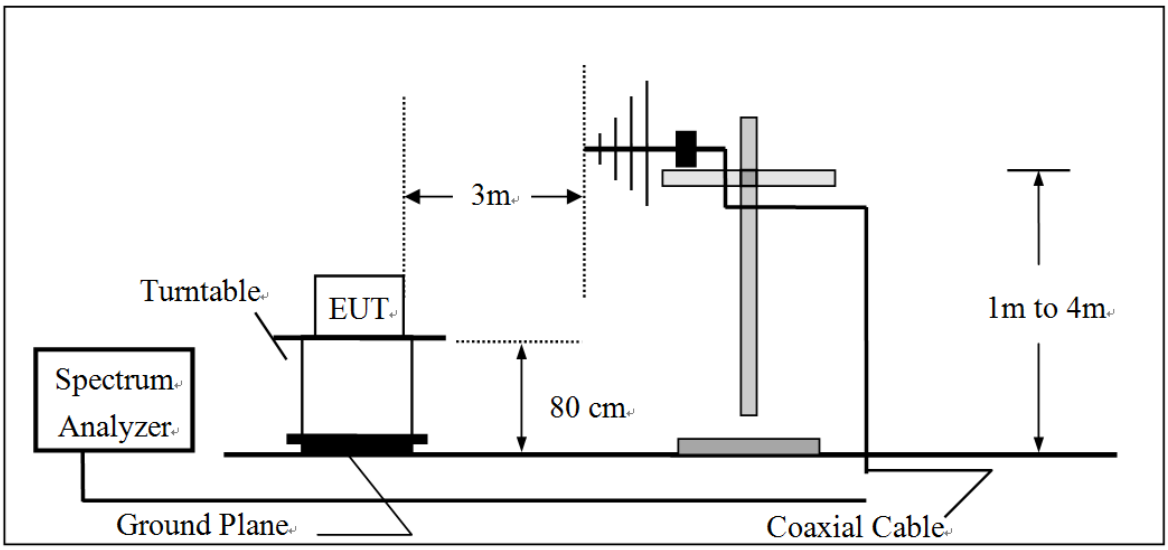
FCC 27.50 (c)(9) control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

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

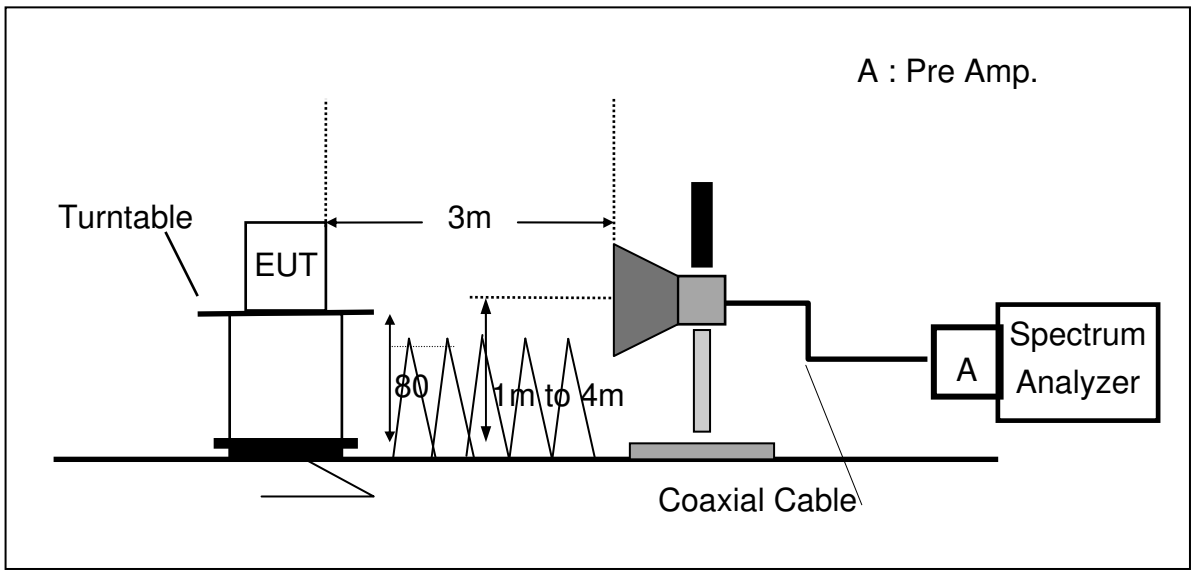
7.2. Test SET-UP

(A) Radiated Power Test Set-Up, Frequency Below1000MHz

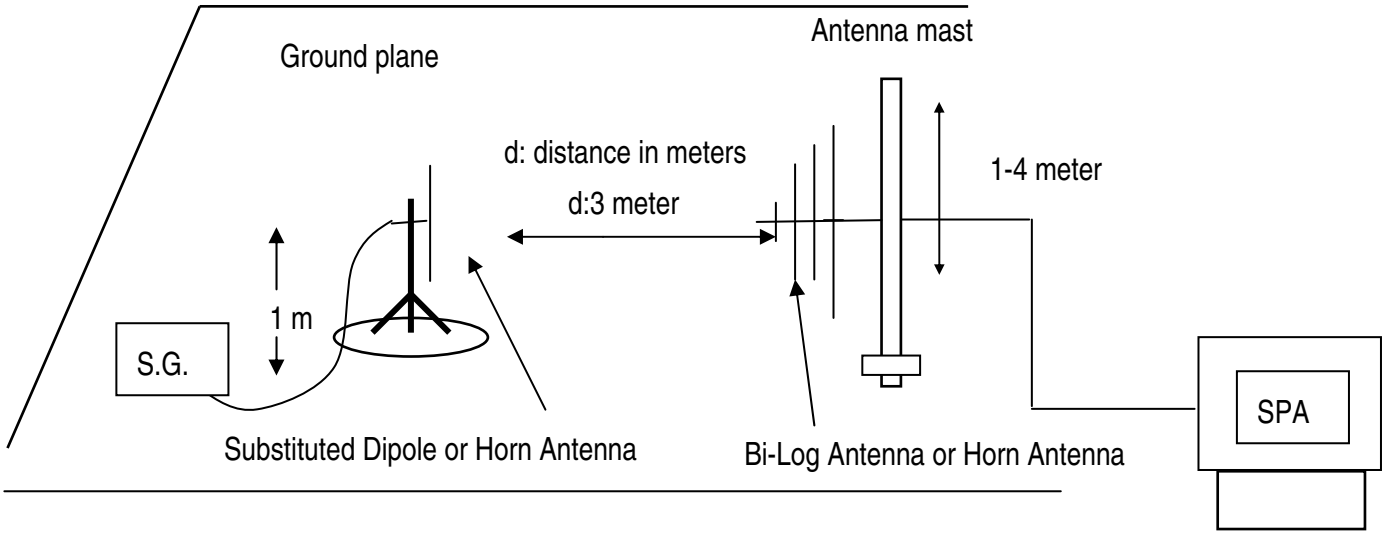


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(B) Radiated Power Test Set-UP Frequency Over 1 GHz



(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 sweet 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*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	12/16/2015	12/15/2016
Horn Antenna	ETS-Lindgren	3117	00143279	11/05/2015	11/04/2016
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2015	12/10/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/18/2016	07/17/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
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 MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 2 BW: 1.4M QPSK RB: 1,0	1850.7	18607	V	26.76	9.59	-5.05	31.30	33.01
			H	25.33	9.59	-5.05	29.87	33.01
	1880.0	18900	V	27.32	9.69	-5.15	**31.86**	33.01
			H	25.55	9.69	-5.15	30.09	33.01
	1909.3	19193	V	27.06	9.79	-5.13	31.72	33.01
			H	24.62	9.79	-5.13	29.28	33.01
BAND 2 BW: 1.4M QPSK RB: 1,5	1850.7	18607	V	26.81	9.60	-5.05	31.36	33.01
			H	25.21	9.60	-5.05	29.76	33.01
	1880.0	18900	V	27.43	9.69	-5.16	**31.96**	33.01
			H	25.38	9.69	-5.16	29.91	33.01
	1909.3	19193	V	26.91	9.80	-5.13	31.58	33.01
			H	24.62	9.80	-5.13	29.29	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,0	1850.7	18607	V	26.94	9.59	-5.05	31.48	33.01
			H	24.99	9.59	-5.05	29.53	33.01
	1880.0	18900	V	27.01	9.69	-5.16	31.54	33.01
			H	25.30	9.69	-5.16	29.83	33.01
	1909.3	19193	V	27.10	9.79	-5.13	**31.76**	33.01
			H	24.60	9.79	-5.13	29.26	33.01
BAND 2 BW: 1.4M 16QAM RB: 1,5	1850.7	18607	V	26.88	9.60	-5.05	31.43	33.01
			H	25.08	9.60	-5.05	29.63	33.01
	1880.0	18900	V	27.70	9.70	-5.16	**32.24**	33.01
			H	25.19	9.70	-5.16	29.73	33.01
	1909.3	19193	V	26.92	9.80	-5.13	31.59	33.01
			H	24.65	9.80	-5.13	29.32	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 2 BW: 3M QPSK RB: 1,0	1851.5	18615	V	25.91	9.59	-5.05	30.45	33.01
			H	24.68	9.59	-5.05	29.22	33.01
	1880.0	18900	V	26.71	9.69	-5.15	31.25	33.01
			H	24.87	9.69	-5.15	29.41	33.01
	1908.5	19185	V	26.90	9.78	-5.12	**31.56**	33.01
			H	24.52	9.78	-5.15	29.15	33.01
BAND 2 BW: 3M QPSK RB: 1,14	1851.5	18615	V	26.14	9.60	-5.05	30.69	33.01
			H	24.76	9.60	-5.05	29.31	33.01
	1880.0	18900	V	27.01	9.70	-5.16	**31.55**	33.01
			H	24.81	9.70	-5.16	29.35	33.01
	1908.5	19185	V	26.56	9.79	-5.13	31.22	33.01
			H	24.30	9.79	-5.13	28.96	33.01
BAND 2 BW: 3M 16QAM RB: 1,0	1851.5	18615	V	25.49	9.59	-5.05	30.03	33.01
			H	24.33	9.59	-5.05	28.87	33.01
	1880.0	18900	V	26.79	9.69	-5.15	31.33	33.01
			H	24.82	9.69	-5.15	29.36	33.01
	1908.5	19185	V	27.07	9.79	-5.12	**31.74**	33.01
			H	24.68	9.79	-5.12	29.35	33.01
BAND 2 BW: 3M 16QAM RB: 1,14	1851.5	18615	V	26.06	9.60	-5.05	30.61	33.01
			H	24.88	9.60	-5.05	29.43	33.01
	1880.0	18900	V	26.93	9.70	-5.16	31.47	33.01
			H	24.70	9.70	-5.16	29.24	33.01
	1908.5	19185	V	26.92	9.79	-5.13	**31.58**	33.01
			H	24.29	9.79	-5.13	28.95	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 2 BW: 5M QPSK RB: 1,0	1852.5	18625	V	26.69	9.59	-5.05	31.23	33.01
			H	24.76	9.59	-5.05	29.30	33.01
	1880.0	18900	V	26.95	9.69	-5.14	31.50	33.01
			H	25.13	9.69	-5.14	29.68	33.01
	1907.5	19175	V	27.62	9.78	-5.12	**32.28**	33.01
			H	25.13	9.78	-5.12	29.79	33.01
BAND 2 BW: 5M QPSK RB: 1,24	1852.5	18625	V	27.22	9.61	-5.05	31.78	33.01
			H	25.04	9.61	-5.05	29.60	33.01
	1880.0	18900	V	27.25	9.70	-5.17	31.78	33.01
			H	25.05	9.70	-5.17	29.58	33.01
	1907.5	19175	V	27.19	9.79	-5.13	**31.85**	33.01
			H	24.50	9.79	-5.13	29.16	33.01
BAND 2 BW: 5M 16QAM RB: 1,0	1852.5	18625	V	26.65	9.59	-5.05	31.19	33.01
			H	24.35	9.59	-5.05	28.89	33.01
	1880.0	18900	V	26.73	9.69	-5.14	31.28	33.01
			H	25.00	9.69	-5.14	29.55	33.01
	1907.5	19175	V	27.58	9.78	-5.12	**32.24**	33.01
			H	24.96	9.78	-5.12	29.62	33.01
BAND 2 BW: 5M 16QAM RB: 1,24	1852.5	18625	V	26.63	9.61	-5.05	31.19	33.01
			H	24.76	9.61	-5.05	29.32	33.01
	1880.0	18900	V	26.92	9.70	-5.17	31.45	33.01
			H	24.67	9.70	-5.17	29.20	33.01
	1907.5	19175	V	26.88	9.79	-5.13	**31.54**	33.01
			H	24.34	9.79	-5.13	29.00	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 2 BW: 10M QPSK RB: 1,0	1855.0	18650	V	27.25	9.59	-5.05	31.79	33.01
			H	24.94	9.59	-5.05	29.48	33.01
	1880.0	18900	V	26.82	9.68	-5.13	31.37	33.01
			H	25.35	9.68	-5.13	29.90	33.01
	1905.0	19150	V	27.69	9.76	-5.11	**32.34**	33.01
			H	25.76	9.76	-5.11	30.41	33.01
BAND 2 BW: 10M QPSK RB: 1,49	1855.0	18650	V	27.68	9.62	-5.06	**32.24**	33.01
			H	25.56	9.62	-5.06	30.12	33.01
	1880.0	18900	V	27.14	9.71	-5.18	31.67	33.01
			H	24.99	9.71	-5.18	29.52	33.01
	1905.0	19150	V	26.91	9.79	-5.13	31.57	33.01
			H	24.41	9.79	-5.13	29.07	33.01
BAND 2 BW: 10M 16QAM RB: 1,0	1855.0	18650	V	26.74	9.59	-5.05	31.28	33.01
			H	24.45	9.59	-5.05	28.99	33.01
	1880.0	18900	V	26.67	9.68	-5.13	31.22	33.01
			H	25.06	9.68	-5.13	29.61	33.01
	1905.0	19150	V	27.62	9.76	-5.11	**32.27**	33.01
			H	25.59	9.76	-5.11	30.24	33.01
BAND 2 BW: 10M 16QAM RB: 1,49	1855.0	18650	V	27.37	9.62	-5.06	**31.93**	33.01
			H	25.09	9.62	-5.06	29.65	33.01
	1880.0	18900	V	26.99	9.71	-5.18	31.52	33.01
			H	24.85	9.71	-5.18	29.38	33.01
	1905.0	19150	V	26.92	9.79	-5.13	31.58	33.01
			H	24.23	9.79	-5.13	28.89	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 2 BW: 15M QPSK RB: 1,0	1857.5	18675	V	26.86	9.59	-5.05	31.40	33.01
			H	25.03	9.59	-5.05	29.57	33.01
	1880.0	18900	V	26.73	9.67	-5.12	31.28	33.01
			H	25.55	9.67	-5.12	30.10	33.01
	1902.5	19125	V	27.18	9.75	-5.13	**31.80**	33.01
			H	25.71	9.75	-5.13	30.33	33.01
BAND 2 BW: 15M QPSK RB: 1,74	1857.5	18675	V	27.35	9.64	-5.07	**31.92**	33.01
			H	25.99	9.64	-5.07	30.56	33.01
	1880.0	18900	V	27.33	9.72	-5.16	31.89	33.01
			H	25.25	9.72	-5.16	29.81	33.01
	1902.5	19125	V	27.17	9.79	-5.13	31.83	33.01
			H	24.56	9.79	-5.13	29.22	33.01
BAND 2 BW: 15M 16QAM RB: 1,0	1857.5	18675	V	26.67	9.59	-5.05	31.21	33.01
			H	24.85	9.59	-5.05	29.39	33.01
	1880.0	18900	V	26.56	9.67	-5.12	31.11	33.01
			H	25.30	9.67	-5.12	29.85	33.01
	1902.5	19125	V	26.99	9.75	-5.13	**31.61**	33.01
			H	25.33	9.75	-5.13	29.95	33.01
BAND 2 BW: 15M 16QAM RB: 1,74	1857.5	18675	V	27.08	9.64	-5.07	31.65	33.01
			H	25.54	9.64	-5.07	30.11	33.01
	1880.0	18900	V	27.03	9.72	-5.17	31.58	33.01
			H	24.99	9.72	-5.17	29.54	33.01
	1902.5	19125	V	27.08	9.79	-5.13	**31.74**	33.01
			H	24.57	9.79	-5.13	29.23	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 2 BW: 20M QPSK RB: 1,0	1860.0	18700	V	27.56	9.59	-5.05	32.10	33.01
			H	22.62	9.59	-5.05	27.16	33.01
	1880.0	18900	V	30.19	7.51	-5.10	**32.60**	33.01
			H	28.50	7.51	-5.10	30.91	33.01
	1900.0	19100	V	27.61	9.73	-5.15	32.19	33.01
			H	25.60	9.73	-5.15	30.18	33.01
BAND 2 BW: 20M QPSK RB: 1,99	1860.0	18700	V	27.30	9.66	-5.09	31.87	33.01
			H	25.75	9.66	-5.09	30.32	33.01
	1880.0	18900	V	27.85	9.72	-5.15	**32.42**	33.01
			H	25.46	9.72	-5.15	30.03	33.01
	1900.0	19100	V	27.38	9.79	-5.13	32.04	33.01
			H	24.82	9.79	-5.13	29.48	33.01
BAND 2 BW: 20M 16QAM RB: 1,0	1860.0	18700	V	26.51	9.60	-5.05	31.06	33.01
			H	24.79	9.60	-5.05	29.34	33.01
	1880.0	18900	V	27.18	9.66	-5.10	31.74	33.01
			H	25.64	9.66	-5.10	30.20	33.01
	1900.0	19100	V	27.73	9.73	-5.15	**32.31**	33.01
			H	25.57	9.73	-5.15	30.15	33.01
BAND 2 BW: 20M 16QAM RB: 1,99	1860.0	18700	V	27.25	9.66	-5.09	31.82	33.01
			H	25.63	9.66	-5.09	30.20	33.01
	1880.0	18900	V	27.36	9.72	-5.16	31.92	33.01
			H	25.24	9.72	-5.16	29.80	33.01
	1900.0	19100	V	28.02	9.79	-5.13	**32.68**	33.01
			H	24.61	9.79	-5.13	29.27	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 4 BW: 1.4M QPSK RB: 1,0	1710.7	19957	V	21.18	9.17	-2.49	27.86	30.00
			H	18.83	9.17	-2.49	25.51	30.00
	1732.5	20175	V	21.24	9.24	-2.51	**27.97**	30.00
			H	18.82	9.24	-2.51	25.55	30.00
	1754.3	20393	V	20.44	9.31	-2.52	27.23	30.00
			H	18.93	9.31	-2.52	25.72	30.00
BAND 4 BW: 1.4M QPSK RB: 1,5	1710.7	19957	V	20.31	9.17	-2.49	26.99	30.00
			H	18.90	9.17	-2.49	25.58	30.00
	1732.5	20175	V	21.08	9.24	-2.51	**27.81**	30.00
			H	18.84	9.24	-2.51	25.57	30.00
	1754.3	20393	V	20.32	9.31	-2.52	27.11	30.00
			H	18.81	9.31	-2.52	25.60	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,0	1710.7	19957	V	21.29	9.17	-2.49	**27.97**	30.00
			H	18.45	9.17	-2.49	25.13	30.00
	1732.5	20175	V	20.85	9.24	-2.51	27.58	30.00
			H	18.71	9.24	-2.51	25.44	30.00
	1754.3	20393	V	20.57	9.31	-2.52	27.36	30.00
			H	18.74	9.31	-2.52	25.53	30.00
BAND 4 BW: 1.4M 16QAM RB: 1,5	1710.7	19957	V	21.37	9.17	-2.49	**28.05**	30.00
			H	18.55	9.17	-2.49	25.23	30.00
	1732.5	20175	V	20.78	9.24	-2.51	27.51	30.00
			H	18.66	9.24	-2.51	25.39	30.00
	1754.3	20393	V	20.45	9.31	-2.52	27.24	30.00
			H	18.80	9.31	-2.52	25.59	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 4 BW: 3M QPSK RB: 1,0	1711.5	19965	V	20.18	9.17	-2.49	26.86	30.00
			H	18.86	9.17	-2.49	25.54	30.00
	1732.5	20175	V	20.96	9.24	-2.51	**27.69**	30.00
			H	19.09	9.24	-2.51	25.82	30.00
	1753.5	20385	V	20.31	9.31	-2.52	27.10	30.00
			H	18.68	9.31	-2.52	25.47	30.00
BAND 4 BW: 3M QPSK RB: 1,14	1711.5	19965	V	20.52	9.17	-2.49	27.20	30.00
			H	19.25	9.17	-2.49	25.93	30.00
	1732.5	20175	V	21.26	9.24	-2.51	**27.99**	30.00
			H	19.12	9.24	-2.51	25.85	30.00
	1753.5	20385	V	21.15	9.31	-2.52	27.94	30.00
			H	18.48	9.31	-2.52	25.27	30.00
BAND 4 BW: 3M 16QAM RB: 1,0	1711.5	19965	V	21.25	9.17	-2.49	**27.93**	30.00
			H	18.50	9.17	-2.49	25.18	30.00
	1732.5	20175	V	20.73	9.24	-2.51	27.46	30.00
			H	18.75	9.24	-2.51	25.48	30.00
	1753.5	20385	V	21.08	9.31	-2.52	27.87	30.00
			H	18.45	9.31	-2.52	25.24	30.00
BAND 4 BW: 3M 16QAM RB: 1,14	1711.5	19965	V	21.23	9.17	-2.49	**27.91**	30.00
			H	18.77	9.17	-2.49	25.45	30.00
	1732.5	20175	V	20.96	9.24	-2.51	27.69	30.00
			H	19.12	9.24	-2.51	25.85	30.00
	1753.5	20385	V	20.88	9.31	-2.52	27.67	30.00
			H	18.37	9.31	-2.52	25.16	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 4 BW: 5M QPSK RB: 1,0	1712.5	19975	V	20.57	9.18	-2.49	27.26	30.00
			H	18.76	9.18	-2.49	25.45	30.00
	1732.5	20175	V	21.16	9.24	-2.51	**27.89**	30.00
			H	18.87	9.24	-2.51	25.60	30.00
	1752.5	20375	V	20.80	9.31	-2.52	27.59	30.00
			H	19.27	9.31	-2.52	26.06	30.00
BAND 4 BW: 5M QPSK RB: 1,24	1712.5	19975	V	20.63	9.18	-2.49	27.32	30.00
			H	18.81	9.18	-2.49	25.50	30.00
	1732.5	20175	V	21.31	9.24	-2.51	28.04	30.00
			H	18.95	9.24	-2.51	25.68	30.00
	1752.5	20375	V	21.31	9.31	-2.52	**28.10**	30.00
			H	18.90	9.31	-2.52	25.69	30.00
BAND 4 BW: 5M 16QAM RB: 1,0	1712.5	19975	V	20.68	9.18	-2.49	27.37	30.00
			H	18.20	9.18	-2.49	24.89	30.00
	1732.5	20175	V	21.06	9.24	-2.51	**27.79**	30.00
			H	18.73	9.24	-2.51	25.46	30.00
	1752.5	20375	V	20.58	9.31	-2.52	27.37	30.00
			H	18.95	9.31	-2.52	25.74	30.00
BAND 4 BW: 5M 16QAM RB: 1,24	1712.5	19975	V	20.41	9.18	-2.49	27.10	30.00
			H	18.51	9.18	-2.49	25.20	30.00
	1732.5	20175	V	21.16	9.24	-2.51	27.89	30.00
			H	18.68	9.24	-2.51	25.41	30.00
	1752.5	20375	V	21.11	9.31	-2.52	**27.90**	30.00
			H	18.73	9.31	-2.52	25.52	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 4 BW: 10M QPSK RB: 1,0	1715.0	20000	V	20.71	9.18	-2.49	27.40	30.00
			H	18.94	9.18	-2.49	25.63	30.00
	1732.5	20175	V	21.16	9.24	-2.51	27.89	30.00
			H	18.67	9.24	-2.51	25.40	30.00
	1750.0	20350	V	21.27	9.30	-2.52	**28.05**	30.00
			H	19.22	9.30	-2.52	26.00	30.00
BAND 4 BW: 10M QPSK RB: 1,49	1715.0	20000	V	21.20	9.18	-2.49	27.89	30.00
			H	19.06	9.18	-2.49	25.75	30.00
	1732.5	20175	V	21.36	9.24	-2.51	**28.09**	30.00
			H	18.76	9.24	-2.51	25.49	30.00
	1750.0	20350	V	20.04	9.30	-2.52	26.82	30.00
			H	18.47	9.30	-2.52	25.25	30.00
BAND 4 BW: 10M 16QAM RB: 1,0	1715.0	20000	V	21.04	9.18	-2.49	**27.73**	30.00
			H	18.13	9.18	-2.49	24.82	30.00
	1732.5	20175	V	20.57	9.24	-2.51	27.30	30.00
			H	18.28	9.24	-2.51	25.01	30.00
	1750.0	20350	V	20.90	9.30	-2.52	27.68	30.00
			H	18.71	9.30	-2.52	25.49	30.00
BAND 4 BW: 10M 16QAM RB: 1,49	1715.0	20000	V	21.32	9.18	-2.49	**28.01**	30.00
			H	18.38	9.18	-2.49	25.07	30.00
	1732.5	20175	V	20.62	9.24	-2.51	27.35	30.00
			H	18.55	9.24	-2.51	25.28	30.00
	1750.0	20350	V	21.23	9.30	-2.52	28.01	30.00
			H	18.25	9.30	-2.52	25.03	30.00

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	20.62	9.20	-2.50	27.32	30.00
			H	19.33	9.20	-2.50	26.03	30.00
	1732.5	20175	V	21.07	9.24	-2.51	27.80	30.00
			H	19.29	9.24	-2.51	26.02	30.00
	1747.5	20325	V	21.15	9.30	-2.52	**27.93**	30.00
			H	19.61	9.30	-2.52	26.39	30.00
BAND 4 BW: 15M QPSK RB: 1,74	1717.5	20025	V	21.19	9.20	-2.50	27.89	30.00
			H	19.35	9.20	-2.50	26.05	30.00
	1732.5	20175	V	21.25	9.24	-2.51	27.98	30.00
			H	18.95	9.24	-2.51	25.68	30.00
	1747.5	20325	V	21.22	9.30	-2.52	**28.00**	30.00
			H	19.20	9.30	-2.52	25.98	30.00
BAND 4 BW: 15M 16QAM RB: 1,0	1717.5	20025	V	20.46	9.20	-2.50	27.16	30.00
			H	18.59	9.20	-2.50	25.29	30.00
	1732.5	20175	V	20.67	9.24	-2.51	27.40	30.00
			H	18.92	9.24	-2.51	25.65	30.00
	1747.5	20325	V	21.18	9.30	-2.52	**27.96**	30.00
			H	18.92	9.30	-2.52	25.70	30.00
BAND 4 BW: 15M 16QAM RB: 1,74	1717.5	20025	V	20.52	9.20	-2.50	27.22	30.00
			H	18.83	9.20	-2.50	25.53	30.00
	1732.5	20175	V	21.47	9.24	-2.51	**28.20**	30.00
			H	19.09	9.24	-2.51	25.82	30.00
	1747.5	20325	V	21.00	9.30	-2.52	27.78	30.00
			H	18.92	9.30	-2.52	25.70	30.00
The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz								

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 4 BW: 20M QPSK RB: 1,0	1720.0	20050	V	21.68	9.20	-2.50	**28.38**	30.00
			H	18.32	9.20	-2.50	25.02	30.00
	1732.5	20175	V	20.71	9.24	-2.51	27.44	30.00
			H	19.12	9.24	-2.51	25.85	30.00
	1745.0	20300	V	21.38	9.28	-2.51	28.15	30.00
			H	19.35	9.28	-2.51	26.12	30.00
BAND 4 BW: 20M QPSK RB: 1,99	1720.0	20050	V	21.05	9.20	-2.50	27.75	30.00
			H	19.30	9.20	-2.50	26.00	30.00
	1732.5	20175	V	21.74	9.24	-2.51	**28.47**	30.00
			H	19.64	9.24	-2.51	26.37	30.00
	1745.0	20300	V	21.69	9.28	-2.51	28.46	30.00
			H	19.79	9.28	-2.51	26.56	30.00
BAND 4 BW: 20M 16QAM RB: 1,0	1720.0	20050	V	20.94	9.20	-2.50	27.64	30.00
			H	18.12	9.20	-2.50	24.82	30.00
	1732.5	20175	V	21.43	9.24	-2.51	28.16	30.00
			H	18.79	9.24	-2.51	25.52	30.00
	1745.0	20300	V	21.69	9.28	-2.51	**28.46**	30.00
			H	19.39	9.28	-2.51	26.16	30.00
BAND 4 BW: 20M 16QAM RB: 1,99	1720.0	20050	V	20.84	9.20	-2.50	27.54	30.00
			H	19.08	9.20	-2.50	25.78	30.00
	1732.5	20175	V	21.43	9.24	-2.51	28.16	30.00
			H	19.41	9.24	-2.51	26.14	30.00
	1745.0	20300	V	21.31	9.28	-2.51	28.08	30.00
			H	21.73	9.28	-2.51	**28.50**	30.00

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 7 BW: 5M QPSK RB: 1,0	2502.5	20775	V	22.35	10.43	-5.88	26.90	33.01
			H	25.83	10.43	-5.88	**30.38**	33.01
	2535.0	21100	V	22.71	10.45	-5.89	27.27	33.01
			H	25.36	10.45	-5.89	29.92	33.01
	2567.5	21425	V	21.23	10.51	-5.97	25.77	33.01
			H	24.47	10.51	-5.97	29.01	33.01
BAND 7 BW: 5M QPSK RB: 1,24	2502.5	20775	V	22.55	10.40	-5.88	27.07	33.01
			H	25.55	10.40	-5.88	**30.07**	33.01
	2535.0	21100	V	22.08	10.46	-5.90	26.64	33.01
			H	24.71	10.46	-5.90	29.27	33.01
	2567.5	21425	V	20.77	10.52	-5.97	25.32	33.01
			H	23.71	10.52	-5.97	28.26	33.01
BAND 7 BW: 5M 16QAM RB: 1,0	2502.5	20775	V	21.83	10.40	-5.88	26.35	33.01
			H	25.92	10.40	-5.88	**30.44**	33.01
	2535.0	21100	V	22.31	10.45	-5.89	26.87	33.01
			H	24.84	10.45	-5.89	29.40	33.01
	2567.5	21425	V	21.09	10.51	-5.97	25.63	33.01
			H	24.18	10.51	-5.97	28.72	33.01
BAND 7 BW: 5M 16QAM RB: 1,24	2502.5	20775	V	22.25	10.40	-5.88	26.77	33.01
			H	25.27	10.40	-5.88	**29.79**	33.01
	2535.0	21100	V	21.83	10.46	-5.90	26.39	33.01
			H	24.33	10.46	-5.90	28.89	33.01
	2567.5	21425	V	20.68	10.52	-5.97	25.23	33.01
			H	23.61	10.52	-5.97	28.16	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 7 BW: 10M QPSK RB: 1,0	2505.0	20800	V	22.43	10.40	-5.88	26.95	33.01
			H	25.74	10.40	-5.88	30.26	33.01
	2535.0	21100	V	22.98	10.45	-5.89	27.54	33.01
			H	25.75	10.45	-5.89	**30.31**	33.01
	2565.0	21400	V	21.90	10.50	-5.96	26.44	33.01
			H	25.14	10.50	-5.96	29.68	33.01
BAND 7 BW: 10M QPSK RB: 1,49	2505.0	20800	V	22.97	10.41	-5.89	27.49	33.01
			H	25.88	10.41	-5.89	**30.40**	33.01
	2535.0	21100	V	22.03	10.47	-5.90	26.60	33.01
			H	24.74	10.47	-5.90	29.31	33.01
	2565.0	21400	V	20.95	10.52	-5.97	25.50	33.01
			H	23.80	10.52	-5.97	28.35	33.01
BAND 7 BW: 10M 16QAM RB: 1,0	2505.0	20800	V	22.00	10.40	-5.88	26.52	33.01
			H	25.43	10.40	-5.88	**29.95**	33.01
	2535.0	21100	V	21.64	10.47	-5.89	26.22	33.01
			H	25.33	10.45	-5.89	29.89	33.01
	2565.0	21400	V	21.55	10.50	-5.96	26.09	33.01
			H	24.78	10.50	-5.96	29.32	33.01
BAND 7 BW: 10M 16QAM RB: 1,49	2505.0	20800	V	22.62	10.41	-5.89	27.14	33.01
			H	25.47	10.41	-5.89	**29.99**	33.01
	2535.0	21100	V	21.64	10.47	-5.90	26.21	33.01
			H	24.38	10.47	-5.90	28.95	33.01
	2565.0	21400	V	20.78	10.52	-5.97	25.33	33.01
			H	23.62	10.52	-5.97	28.17	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 7 BW: 15M QPSK RB: 1,0	2507.5	20825	V	22.06	10.40	-5.88	26.58	33.01
			H	25.76	10.40	-5.88	30.28	33.01
	2535.0	21100	V	23.08	10.45	-5.89	27.64	33.01
			H	25.88	10.45	-5.89	**30.44**	33.01
	2562.5	21375	V	22.04	10.50	-5.94	26.60	33.01
			H	25.50	10.50	-5.94	30.06	33.01
BAND 7 BW: 15M QPSK RB: 1,74	2507.5	20825	V	22.78	10.42	-5.89	27.31	33.01
			H	26.39	10.42	-5.89	**30.92**	33.01
	2535.0	21100	V	21.77	10.47	-5.90	26.34	33.01
			H	24.64	10.47	-5.90	29.21	33.01
	2562.5	21375	V	20.85	10.52	-5.97	25.40	33.01
			H	23.82	10.52	-5.97	28.37	33.01
BAND 7 BW: 15M 16QAM RB: 1,0	2507.5	20825	V	22.37	10.40	-5.88	26.89	33.01
			H	25.27	10.40	-5.88	29.79	33.01
	2535.0	21100	V	22.61	10.45	-5.89	27.17	33.01
			H	25.50	10.45	-5.89	**30.06**	33.01
	2562.5	21375	V	21.75	10.50	-5.94	26.31	33.01
			H	25.16	10.50	-5.94	29.72	33.01
BAND 7 BW: 15M 16QAM RB: 1,74	2507.5	20825	V	23.33	10.42	-5.89	27.86	33.01
			H	25.79	10.42	-5.89	**30.32**	33.01
	2535.0	21100	V	22.72	10.47	-5.90	27.29	33.01
			H	24.22	10.47	-5.90	28.79	33.01
	2562.5	21375	V	20.69	10.52	-5.97	25.24	33.01
			H	23.62	10.52	-5.97	28.17	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 7 BW: 20M QPSK RB: 1,0	2510.0	20850	V	22.23	10.40	-5.88	26.75	33.01
			H	25.73	10.40	-5.88	30.25	33.01
	2535.0	21100	V	23.47	10.44	-5.89	28.02	33.01
			H	26.31	10.44	-5.89	**30.86**	33.01
	2560.0	21350	V	21.95	10.49	-5.92	26.52	33.01
			H	25.33	10.49	-5.92	29.90	33.01
BAND 7 BW: 20M QPSK RB: 1,99	2510.0	20850	V	23.34	10.43	-5.89	27.88	33.01
			H	26.43	10.43	-5.89	**30.97**	33.01
	2535.0	21100	V	21.51	10.47	-5.90	26.08	33.01
			H	24.51	10.47	-5.90	29.08	33.01
	2560.0	21350	V	21.04	10.52	-5.97	25.59	33.01
			H	23.96	10.52	-5.97	28.51	33.01
BAND 7 BW: 20M 16QAM RB: 1,0	2510.0	20850	V	21.97	10.40	-5.88	26.49	33.01
			H	25.37	10.40	-5.88	29.89	33.01
	2535.0	21100	V	21.07	10.44	-5.90	25.61	33.01
			H	25.93	10.44	-5.90	**30.47**	33.01
	2560.0	21350	V	21.70	10.49	-5.92	26.27	33.01
			H	25.02	10.49	-5.92	29.59	33.01
BAND 7 BW: 20M 16QAM RB: 1,99	2510.0	20850	V	22.99	10.43	-5.89	27.53	33.01
			H	26.00	10.43	-5.89	**30.54**	33.01
	2535.0	21100	V	21.07	10.47	-5.90	25.64	33.01
			H	24.08	10.47	-5.90	28.65	33.01
	2560.0	21350	V	20.83	10.52	-5.97	25.38	33.01
			H	23.76	10.52	-5.97	28.31	33.01

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 12 BW: 1.4M QPSK RB: 1,0	699.7	23017	V	11.26	5.45	-3.13	13.58	34.77
			H	20.29	5.45	-3.13	22.61	34.77
	707.5	23095	V	12.49	5.46	-3.19	14.76	34.77
			H	21.75	5.46	-3.19	**24.02**	34.77
	715.3	23173	V	12.44	5.46	-2.99	14.91	34.77
			H	21.33	5.46	-2.99	23.80	34.77
BAND 12 BW: 1.4M QPSK RB: 1,5	699.7	23017	V	11.45	5.46	-3.01	13.90	34.77
			H	20.40	5.46	-3.01	22.85	34.77
	707.5	23095	V	12.15	5.46	-3.23	14.38	34.77
			H	20.77	5.46	-3.23	23.00	34.77
	715.3	23173	V	12.40	5.46	-3.21	14.65	34.77
			H	22.18	5.46	-3.21	**24.43**	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,0	699.7	23017	V	10.37	5.45	-3.07	12.75	34.77
			H	20.10	5.45	-3.07	22.48	34.77
	707.5	23095	V	12.19	5.46	-3.22	14.43	34.77
			H	20.98	5.46	-3.22	23.22	34.77
	715.3	23173	V	11.70	5.46	-2.92	14.24	34.77
			H	21.38	5.46	-2.92	**23.92**	34.77
BAND 12 BW: 1.4M 16QAM RB: 1,5	699.7	23017	V	11.20	5.45	-3.07	13.58	34.77
			H	20.16	5.45	-3.07	22.54	34.77
	707.5	23095	V	11.25	5.46	-3.19	13.52	34.77
			H	20.57	5.46	-3.19	22.84	34.77
	715.3	23173	V	11.79	5.46	-3.13	14.12	34.77
			H	21.18	5.46	-3.13	**23.51**	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 12 BW: 3M QPSK RB: 1,0	700.5	23025	V	11.16	5.45	-3.12	13.49	34.77
			H	20.33	5.45	-3.12	22.66	34.77
	707.5	23095	V	13.06	5.46	-3.22	15.30	34.77
			H	22.00	5.46	-3.22	**24.24**	34.77
	714.5	23165	V	10.88	5.46	-2.92	13.42	34.77
			H	21.15	5.46	-2.92	23.69	34.77
BAND 12 BW: 3M QPSK RB: 1,14	700.5	23025	V	12.18	5.46	-2.99	14.65	34.77
			H	21.34	5.46	-2.99	23.81	34.77
	707.5	23095	V	11.81	5.46	-3.16	14.11	34.77
			H	20.45	5.46	-3.16	22.75	34.77
	714.5	23165	V	11.79	5.46	-3.08	14.17	34.77
			H	22.16	5.46	-3.08	**24.54**	34.77
BAND 12 BW: 3M 16QAM RB: 1,0	700.5	23025	V	10.31	5.45	-3.14	12.62	34.77
			H	19.35	5.45	-3.14	21.66	34.77
	707.5	23095	V	11.94	5.46	-3.09	14.31	34.77
			H	21.28	5.46	-3.09	**23.65**	34.77
	714.5	23165	V	11.17	5.46	-2.89	13.74	34.77
			H	20.74	5.46	-2.89	23.31	34.77
BAND 12 BW: 3M 16QAM RB: 1,14	700.5	23025	V	11.73	5.46	-3.00	14.19	34.77
			H	20.92	5.46	-3.00	23.38	34.77
	707.5	23095	V	10.74	5.46	-3.15	13.05	34.77
			H	20.36	5.46	-3.15	22.67	34.77
	714.5	23165	V	11.88	5.46	-3.22	14.12	34.77
			H	21.63	5.46	-3.22	**23.87**	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 12 BW: 5M QPSK RB: 1,0	701.5	23035	V	11.08	5.45	-3.10	13.43	34.77
			H	20.23	5.45	-3.10	22.58	34.77
	707.5	23095	V	13.16	5.46	-3.03	15.59	34.77
			H	21.67	5.46	-3.03	**24.10**	34.77
	713.5	23155	V	10.30	5.46	-3.07	12.69	34.77
			H	20.31	5.46	-3.07	22.70	34.77
BAND 12 BW: 5M QPSK RB: 1,24	701.5	23035	V	12.80	5.46	-3.00	15.26	34.77
			H	22.10	5.46	-3.00	**24.56**	34.77
	707.5	23095	V	10.96	5.46	-3.07	13.35	34.77
			H	19.76	5.46	-3.07	22.15	34.77
	713.5	23155	V	11.69	5.46	-3.20	13.95	34.77
			H	21.98	5.46	-3.20	24.24	34.77
BAND 12 BW: 5M 16QAM RB: 1,0	701.5	23035	V	10.89	5.45	-3.17	13.17	34.77
			H	19.97	5.45	-3.17	22.25	34.77
	707.5	23095	V	12.21	5.46	-3.03	14.64	34.77
			H	21.05	5.46	-3.03	**23.48**	34.77
	713.5	23155	V	10.58	5.46	-3.06	12.98	34.77
			H	19.42	5.46	-3.06	21.82	34.77
BAND 12 BW: 5M 16QAM RB: 1,24	701.5	23035	V	12.08	5.46	-3.02	14.52	34.77
			H	21.22	5.46	-3.02	**23.66**	34.77
	707.5	23095	V	10.95	5.46	-3.08	13.33	34.77
			H	19.64	5.46	-3.08	22.02	34.77
	713.5	23155	V	12.13	5.46	-3.15	14.44	34.77
			H	21.16	5.46	-3.15	23.47	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 12 BW: 10M QPSK RB: 1,0	704.0	23060	V	10.36	5.46	-3.11	12.71	34.77
			H	16.75	5.46	-3.11	19.10	34.77
	707.5	23095	V	12.49	5.46	-3.03	14.92	34.77
			H	18.51	5.46	-3.03	**20.94**	34.77
	711.0	23130	V	11.73	5.46	-3.11	14.08	34.77
			H	18.56	5.46	-3.11	20.91	34.77
BAND 12 BW: 10M QPSK RB: 1,49	704.0	23060	V	10.03	5.46	-3.23	12.26	34.77
			H	17.20	5.46	-3.23	19.43	34.77
	707.5	23095	V	9.52	5.46	-3.07	11.91	34.77
			H	17.18	5.46	-3.07	19.57	34.77
	711.0	23130	V	10.49	5.46	-2.99	12.96	34.77
			H	18.35	5.46	-2.99	**20.82**	34.77
BAND 12 BW: 10M 16QAM RB: 1,0	704.0	23060	V	13.08	5.46	-3.09	15.45	34.77
			H	16.11	5.46	-3.09	18.48	34.77
	707.5	23095	V	14.05	5.46	-3.03	16.48	34.77
			H	17.52	5.46	-3.03	19.95	34.77
	711.0	23130	V	13.71	5.46	-3.20	15.97	34.77
			H	17.75	5.46	-3.20	**20.01**	34.77
BAND 12 BW: 10M 16QAM RB: 1,49	704.0	23060	V	12.91	5.46	-3.22	15.15	34.77
			H	17.07	5.46	-3.22	19.31	34.77
	707.5	23095	V	11.82	5.46	-3.07	14.21	34.77
			H	16.37	5.46	-3.07	18.76	34.77
	711.0	23130	V	13.02	5.46	-2.96	15.52	34.77
			H	17.66	5.46	-2.96	**20.16**	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 13 BW: 5M QPSK RB: 1,0	779.5	23205	V	17.15	5.49	-3.11	19.53	34.77
			H	25.03	5.49	-3.11	27.41	34.77
	782.0	23230	V	16.89	5.49	-3.34	19.04	34.77
			H	24.62	5.49	-3.34	26.77	34.77
	784.5	23255	V	17.67	5.50	-3.23	19.94	34.77
			H	25.41	5.50	-3.23	**27.68**	34.77
BAND 13 BW: 5M QPSK RB: 1,24	779.5	23205	V	18.27	5.49	-3.43	20.33	34.77
			H	26.00	5.49	-3.43	**28.06**	34.77
	782.0	23230	V	15.89	5.50	-3.13	18.26	34.77
			H	23.51	5.50	-3.13	25.88	34.77
	784.5	23255	V	17.16	5.50	-3.05	19.61	34.77
			H	24.85	5.50	-3.05	27.30	34.77
BAND 13 BW: 5M 16QAM RB: 1,0	779.5	23205	V	16.71	5.49	-3.07	19.13	34.77
			H	24.76	5.49	-3.07	27.18	34.77
	782.0	23230	V	16.57	5.49	-3.28	18.78	34.77
			H	24.59	5.49	-3.38	26.70	34.77
	784.5	23255	V	17.32	5.50	-3.32	19.50	34.77
			H	25.11	5.50	-3.32	**27.29**	34.77
BAND 13 BW: 5M 16QAM RB: 1,24	779.5	23205	V	17.71	5.49	-3.38	19.82	34.77
			H	25.55	5.49	-3.38	**27.66**	34.77
	782.0	23230	V	15.68	5.50	-3.12	18.06	34.77
			H	23.37	5.50	-3.12	25.75	34.77
	784.5	23255	V	16.96	5.50	-3.05	19.41	34.77
			H	24.71	5.50	-3.05	27.16	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 13 BW: 10M QPSK RB: 1,0	782.0	23230						
			V	17.06	5.49	-3.11	19.44	34.77
			H	25.00	5.49	-3.11	27.38	34.77
BAND 13 BW: 10M QPSK RB: 1,49	782.0	23230						
			V	16.93	5.50	-3.06	19.37	34.77
			H	24.60	5.50	-3.06	27.04	34.77
BAND 13 BW: 10M 16QAM RB: 1,0	782.0	23230						
			V	16.86	5.49	-3.10	19.25	34.77
			H	24.77	5.49	-3.10	27.16	34.77
BAND 13 BW: 10M 16QAM RB: 1,49	782.0	23230						
			V	16.81	5.50	-3.05	19.26	34.77
			H	24.46	5.50	-3.05	26.91	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 17 BW: 5M QPSK RB: 1,0	706.5	23755	V	13.16	5.46	-2.99	15.63	34.77
			H	21.49	5.46	-2.99	**23.96**	34.77
	710.0	23790	V	11.36	5.46	-3.23	13.59	34.77
			H	20.04	5.46	-3.23	22.27	34.77
	713.5	23825	V	11.05	5.46	-3.06	13.45	34.77
			H	18.61	5.46	-3.06	21.01	34.77
BAND 17 BW: 5M QPSK RB: 1,24	706.5	23755	V	10.69	5.46	-3.15	13.00	34.77
			H	19.39	5.46	-3.15	21.70	34.77
	710.0	23790	V	11.23	5.46	-3.01	13.68	34.77
			H	20.29	5.46	-3.01	22.74	34.77
	713.5	23825	V	12.41	5.46	-3.13	14.74	34.77
			H	21.59	5.46	-3.13	**23.92**	34.77
BAND 17 BW: 5M 16QAM RB: 1,0	706.5	23755	V	11.80	5.46	-2.99	14.27	34.77
			H	20.62	5.46	-2.99	**23.09**	34.77
	710.0	23790	V	11.17	5.46	-3.23	13.40	34.77
			H	19.84	5.46	-3.23	22.07	34.77
	713.5	23825	V	9.59	5.46	-3.06	11.99	34.77
			H	18.49	5.46	-3.06	20.89	34.77
BAND 17 BW: 5M 16QAM RB: 1,24	706.5	23755	V	10.58	5.46	-3.19	12.85	34.77
			H	19.25	5.46	-3.19	21.52	34.77
	710.0	23790	V	9.78	5.46	-3.03	12.21	34.77
			H	18.77	5.46	-3.03	21.20	34.77
	713.5	23825	V	12.16	5.46	-3.05	14.57	34.77
			H	21.27	5.46	-3.05	**23.68**	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

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EUT			Measurement					
Operation Band	Fundamental Frequency MHz	CH	Antenna Pol. V/H	S.G. Output dBm	Antenna Gain dBi	Cable Loss dB	EIRP dBm	Limit dBm
BAND 17 BW: 10M QPSK RB: 1,0	709.0	23780	V	12.10	5.46	-3.00	14.56	34.77
			H	21.46	5.46	-3.00	**23.92**	34.77
	710.0	23790	V	12.65	5.46	-3.02	15.09	34.77
			H	21.37	5.46	-3.02	23.81	34.77
	711.0	23800	V	12.61	5.46	-3.20	14.87	34.77
			H	20.93	5.46	-3.20	23.19	34.77
BAND 17 BW: 10M QPSK RB: 1,49	709.0	23780	V	11.57	5.46	-2.92	14.11	34.77
			H	20.62	5.46	-2.92	23.16	34.77
	710.0	23790	V	11.85	5.46	-2.93	14.38	34.77
			H	21.18	5.46	-2.93	23.71	34.77
	711.0	23800	V	12.42	5.46	-3.11	14.77	34.77
			H	21.74	5.46	-3.11	**24.09**	34.77
BAND 17 BW: 10M 16QAM RB: 1,0	709.0	23780	V	12.09	5.46	-2.99	14.56	34.77
			H	20.73	5.46	-2.99	**23.20**	34.77
	710.0	23790	V	12.01	5.46	-3.04	14.43	34.77
			H	20.62	5.46	-3.04	23.04	34.77
	711.0	23800	V	11.92	5.46	-3.15	14.23	34.77
			H	20.60	5.46	-3.15	22.91	34.77
BAND 17 BW: 10M 16QAM RB: 1,49	709.0	23780	V	11.28	5.46	-2.91	13.83	34.77
			H	20.36	5.46	-2.91	22.91	34.77
	710.0	23790	V	11.51	5.46	-2.98	13.99	34.77
			H	20.81	5.46	-2.98	**23.29**	34.77
	711.0	23800	V	10.99	5.46	-3.08	13.37	34.77
			H	20.33	5.46	-3.08	22.71	34.77

The RBW,VBW of SPA for frequency RBW= 8MHz , VBW= 8MHz

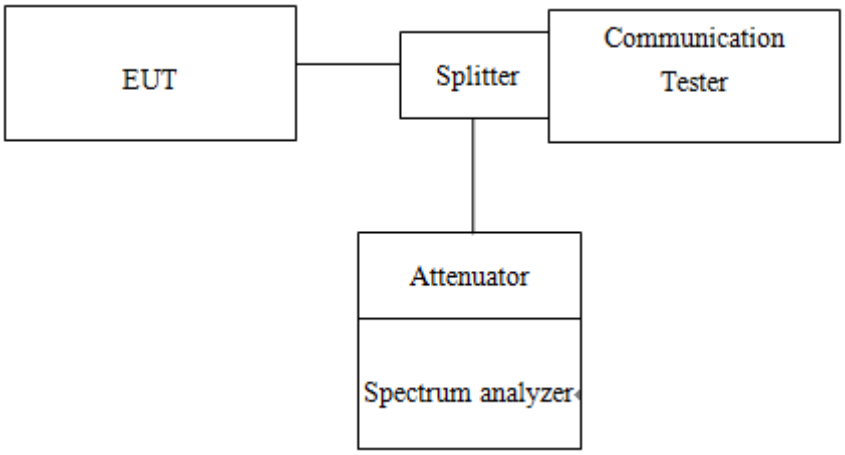
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8. OCCUPIED BANDWIDTH MEASUREMENT

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%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Communication Tester	Anritsu	MT8820C	6201107337	05/25/2016	05/24/2017
Coaxial Cable 30cm	WOKEN	00100A1F1 A195C	RF01	12/12/2015	12/11/2016
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/16/2016	06/15/2017
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G 18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
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	1.0965	1.0999	1.298	1.294
1880.0	18900	1.0977	**1.1005**	1.288	1.290
1909.3	19193	**1.0982**	1.0998	**1.303**	**1.298**

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	**2.7014**	2.7030	**3.008**	**2.998**
1880.0	18900	2.7011	**2.7058**	2.984	2.990
1908.5	19185	2.6976	2.6979	2.987	2.992

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	**4.5073**	**4.5091**	**5.042**	**5.008**
1880.0	18900	4.5035	4.4984	5.019	4.959
1907.5	19175	4.4892	4.4954	5.003	4.985

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	**9.0051**	**8.9679**	**9.905**	**9.807**
1880.0	18900	8.9893	8.9476	9.904	9.784
1905.0	19150	8.9679	8.9349	9.864	9.773

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	**13.475**	**13.453**	**14.74**	14.66
1880.0	18900	13.431	13.415	14.66	14.69
1902.5	19125	13.441	13.412	14.70	**14.70**

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	17.896	17.938	**19.47**	19.40
1880.0	18900	17.879	17.865	19.39	19.40
1900.0	19100	**17.897**	**17.951**	19.42	**19.47**

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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	**1.1005**	1.1022	**1.311**	1.305
1732.5	20175	1.0979	**1.1058**	1.291	1.298
1754.3	20393	1.0991	1.1016	1.299	**1.307**

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	**2.7037**	2.7033	2.997	2.997
1732.5	20175	2.7009	**2.7053**	**3.015**	**3.007**
1753.5	20385	2.7028	2.7047	3.009	2.996

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	**4.5069**	**4.5072**	5.039	**5.038**
1732.5	20175	4.5045	4.4985	5.029	4.986
1752.5	20375	4.4976	4.5026	**5.040**	5.003

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	8.9730	8.9627	9.797	9.796
1732.5	20175	**8.9962**	**8.9653**	**9.929**	**9.801**
1750.0	20350	8.9764	8.9426	9.875	9.789

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	13.438	13.395	14.67	14.66
1732.5	20175	**13.508**	**13.484**	**14.68**	**14.68**
1747.5	20325	13.377	13.369	14.55	14.62

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	17.818	17.840	19.31	19.33
1732.5	20175	**17.993**	**18.006**	**19.52**	**19.49**
1745.0	20300	17.828	17.863	19.25	19.31

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LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.4913	4.4950	**5.018**	4.970
2535.0	21100	4.4945	**4.4963**	5.002	4.968
2567.5	21425	**4.4978**	4.4933	5.013	**5.019**

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	**8.9947**	**8.9471**	9.892	9.795
2535.0	21100	8.9923	8.9446	**9.906**	9.805
2565.0	21400	8.9875	8.9469	9.764	**9.829**

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.447	13.419	**14.76**	14.82
2535.0	21100	**13.481**	**13.465**	14.58	14.68
2562.5	21375	13.454	13.430	14.68	**14.88**

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	**17.896**	**17.918**	19.39	**19.48**
2535.0	21100	17.895	17.890	19.41	19.46
2560.0	21350	17.879	17.913	**19.44**	19.44

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	1.0979	1.0994	**1.303**	1.282
707.5	23095	1.0982	1.0979	1.285	1.297
715.3	23173	**1.0997**	**1.1008**	1.294	**1.313**

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	2.6965	2.7001	2.978	**3.006**
707.5	23095	**2.7011**	**2.7012**	**2.995**	2.983
714.5	23165	2.6984	2.7000	2.978	2.981

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	4.4933	4.4900	**5.032**	4.975
707.5	23095	**4.5030**	**4.4982**	5.016	4.999
713.5	23155	4.4878	4.4919	4.997	**5.373**

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	8.9475	8.9182	9.810	9.740
707.5	23095	8.9781	8.9448	9.818	9.797
711.0	23130	**9.0078**	**8.9544**	**9.913**	**9.826**

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LTE BAND 13 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	**4.9090**	4.4913	4.993	**5.016**
707.5	23095	4.9000	4.4808	**5.007**	4.973
713.5	23155	4.9080	**4.4934**	4.990	5.015

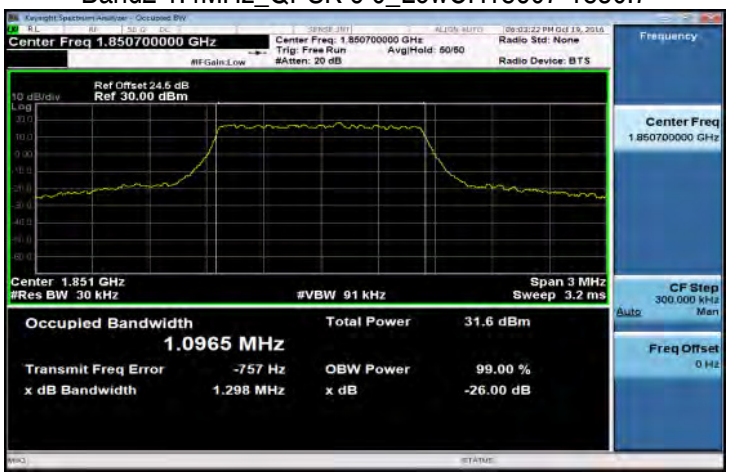
LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
782.0	23230	**8.9609**	**8.9178**	**9.825**	**9.672**

LTE BAND 17 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
706.5	23755	4.4939	4.4988	**5.044**	4.994
710.0	23790	**4.4997**	**4.5004**	5.014	**4.996**
713.5	23825	4.4865	4.4885	4.985	4.968

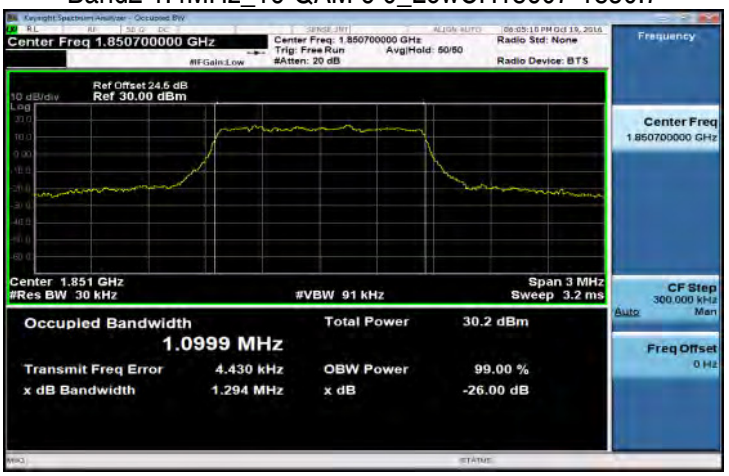
LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)	99% BW (MHz)	26 dB BW (MHz)	26 dB BW (MHz)
		QPSK	16QAM	QPSK	16QAM
709.0	23780	**9.0116**	8.9572	**9.921**	9.873
710.0	23790	8.9907	**8.9734**	9.896	9.856
711.0	23780	8.9957	8.9586	9.881	**9.906**

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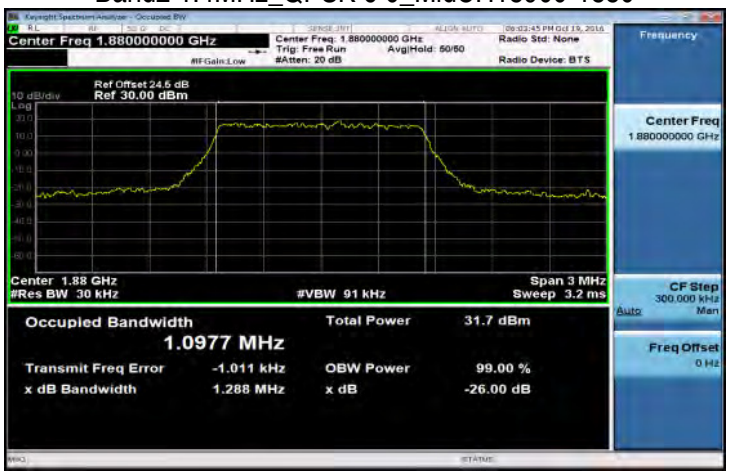
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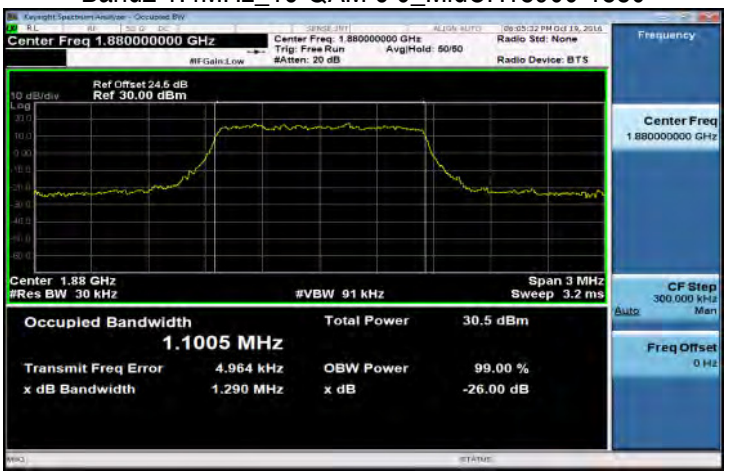
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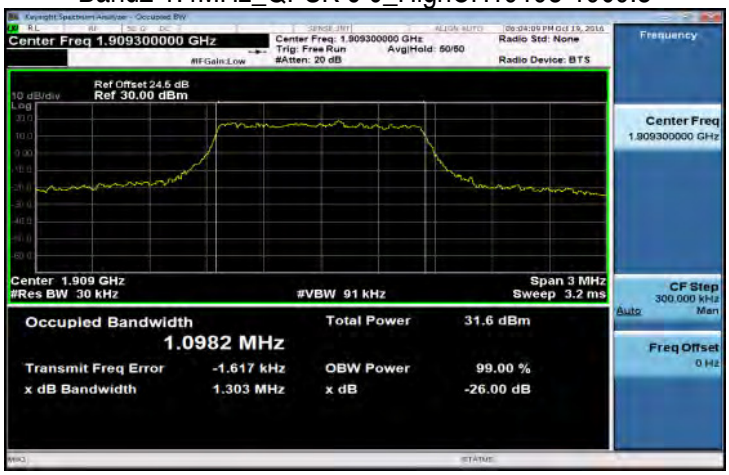
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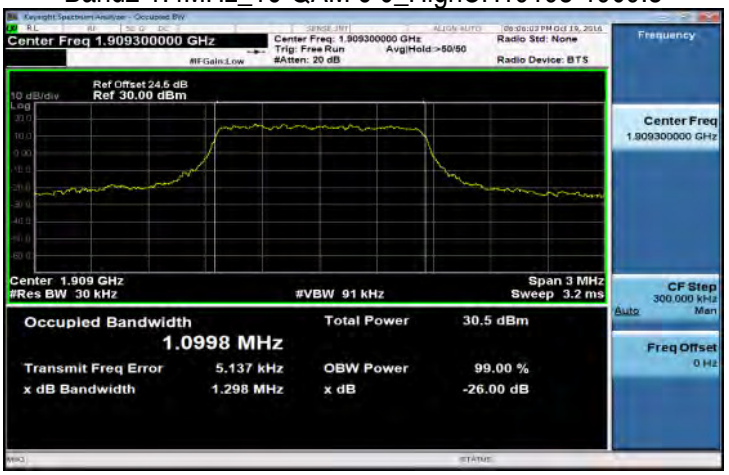
Band2 1.4MHz_16-QAM 6 0_MidCH18900-1880



Band2 1.4MHz_QPSK 6 0_HighCH19193-1909.3

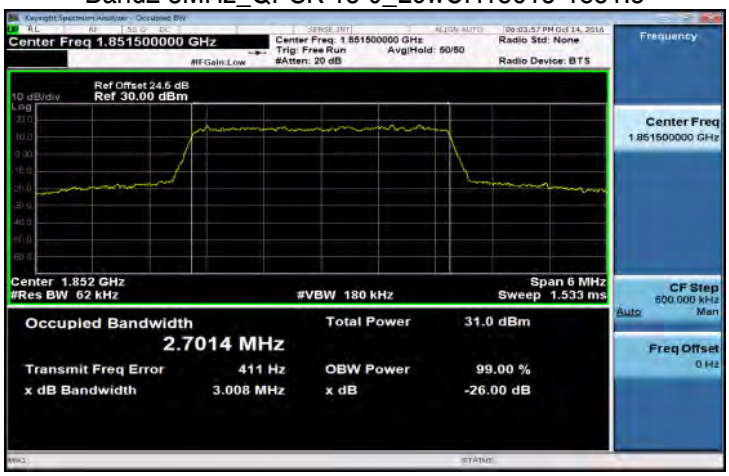


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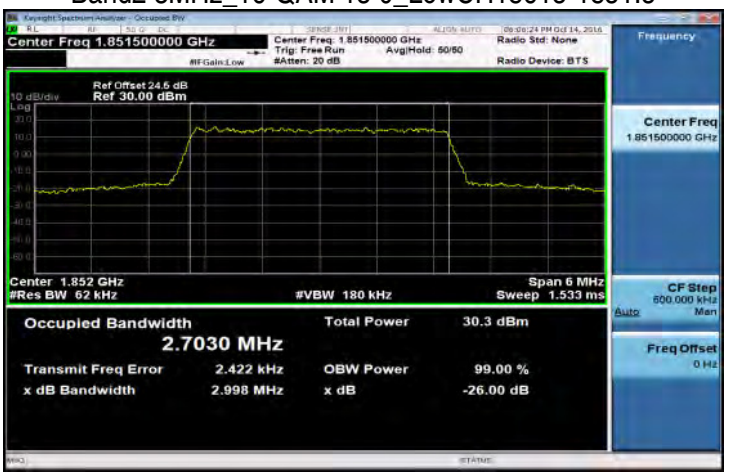


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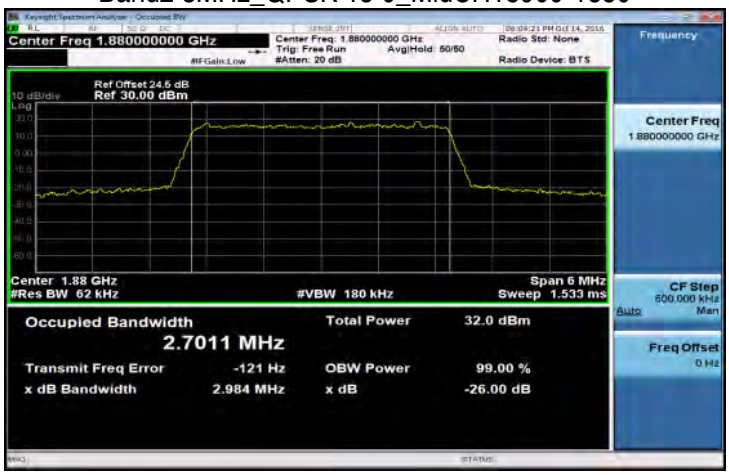
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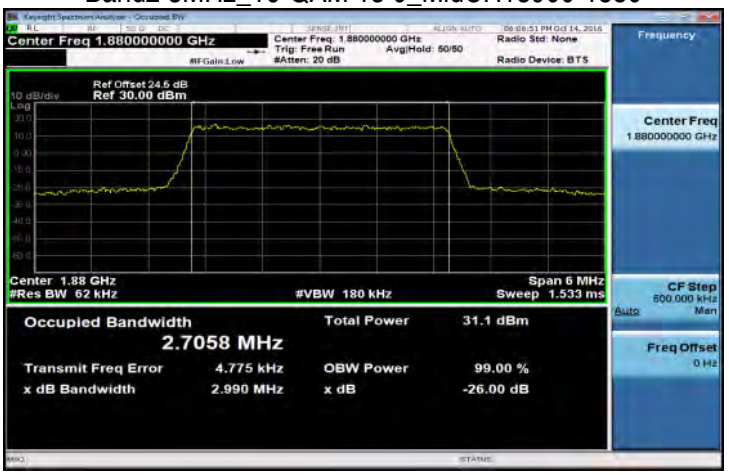
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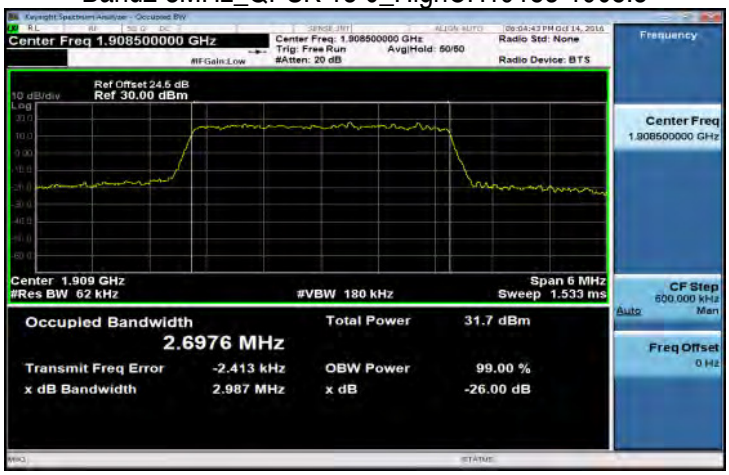
Band2 3MHz_QPSK 15 0_MidCH18900-1880



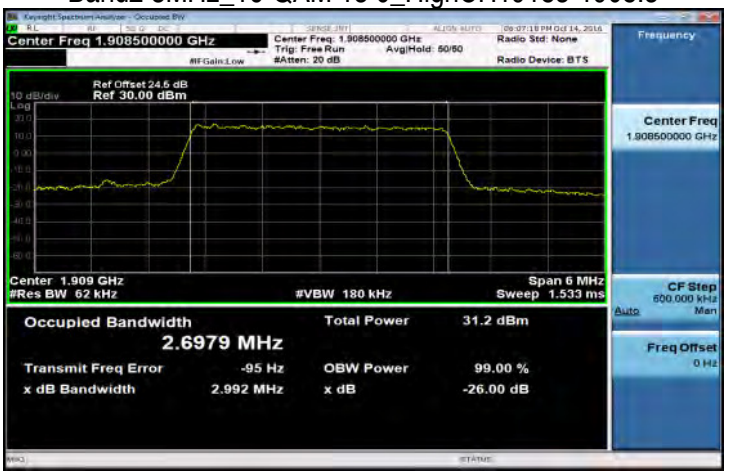
Band2 3MHz_16-QAM 15 0_MidCH18900-1880



Band2 3MHz_QPSK 15 0_HighCH19185-1908.5

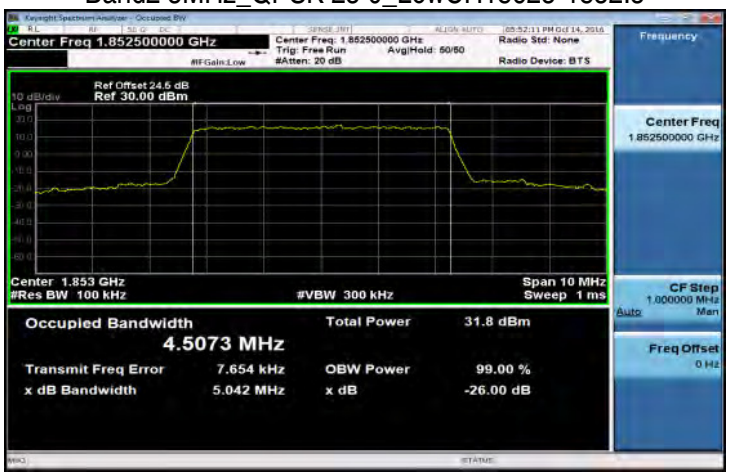


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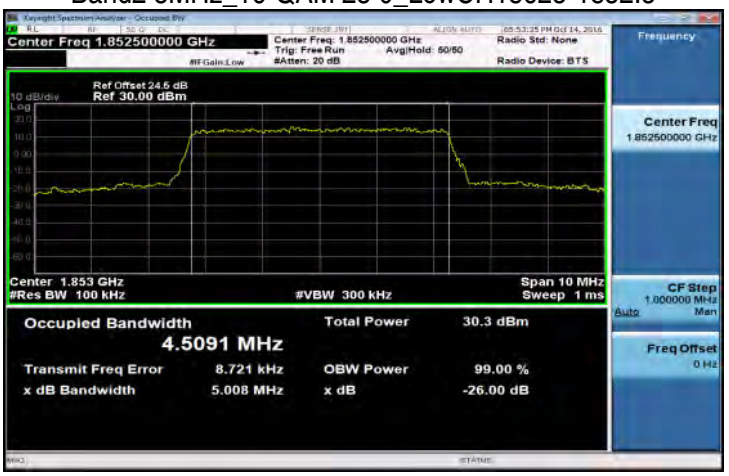


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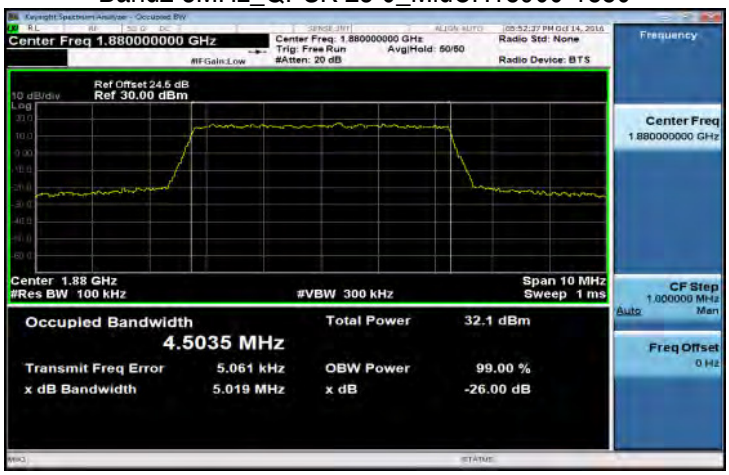
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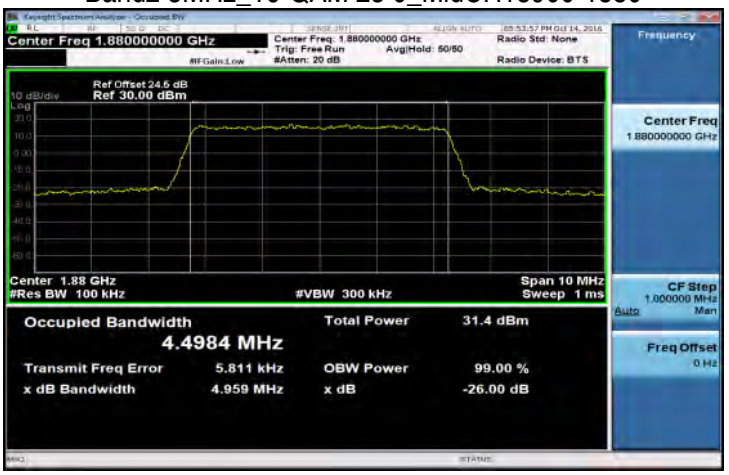
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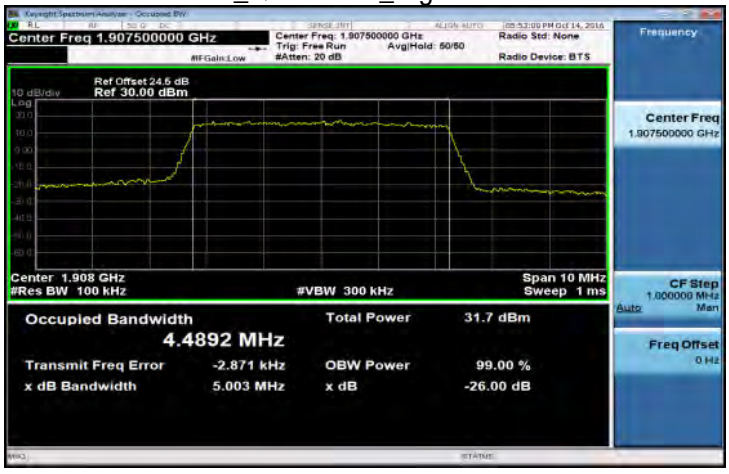
Band2 5MHz_QPSK 25 0_MidCH18900-1880



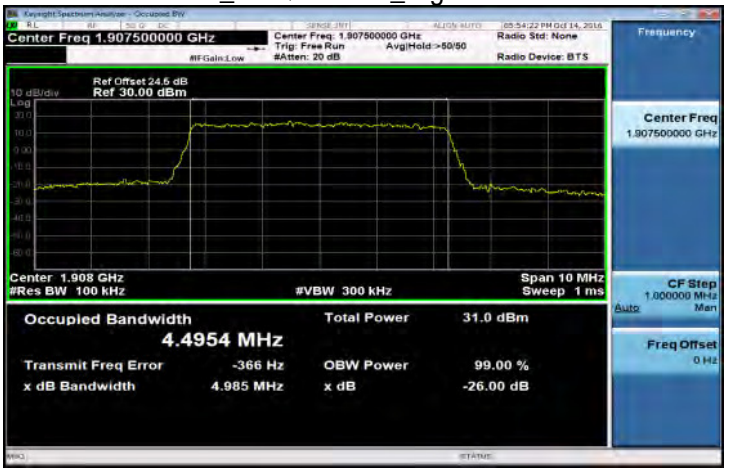
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Band2 5MHz_QPSK 25 0_HighCH19175-1907.5

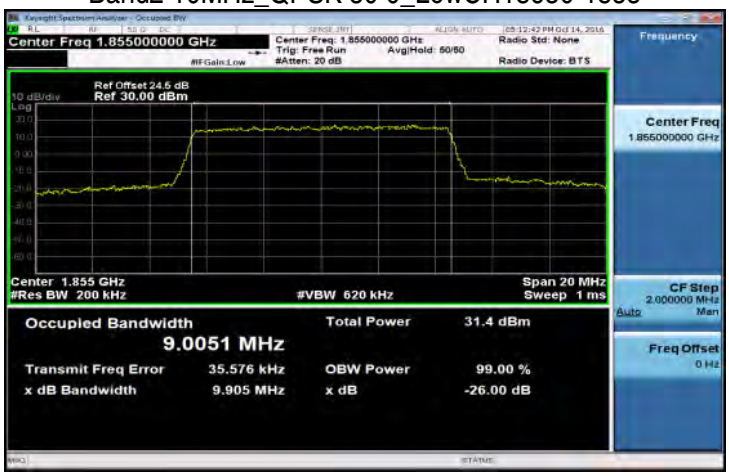


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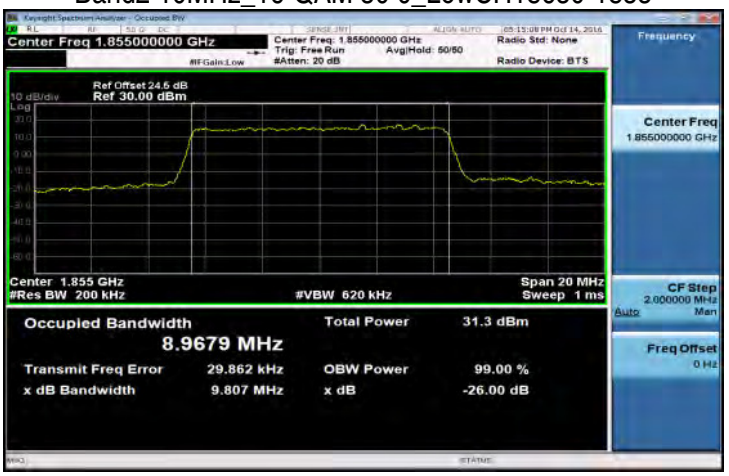


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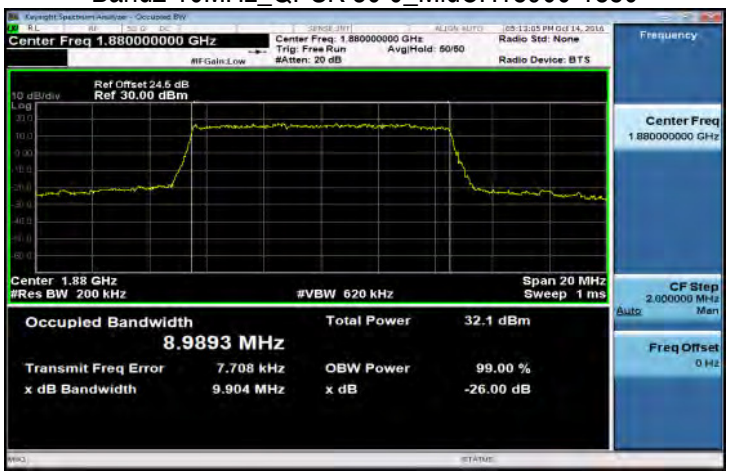
Band2 10MHz_QPSK 50 0_LowCH18650-1855



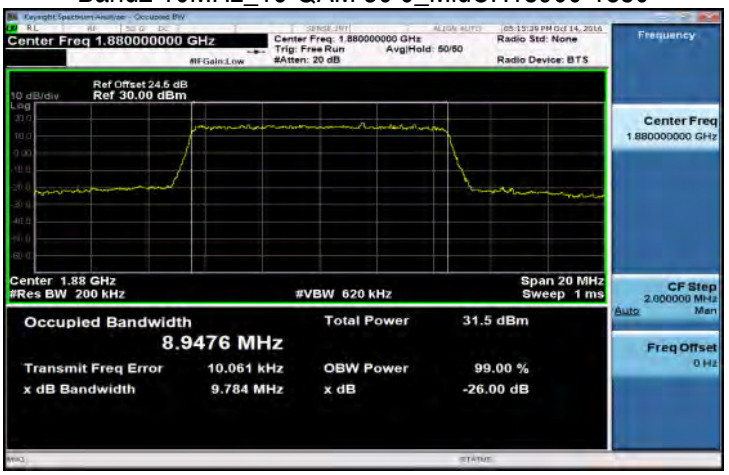
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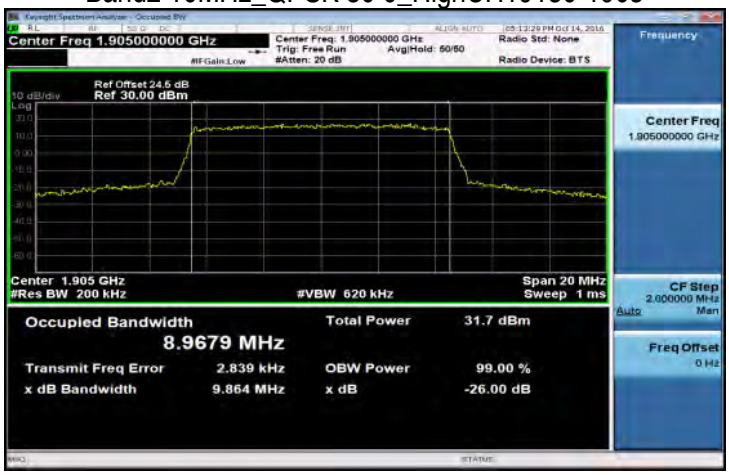
Band2 10MHz_QPSK 50 0_MidCH18900-1880



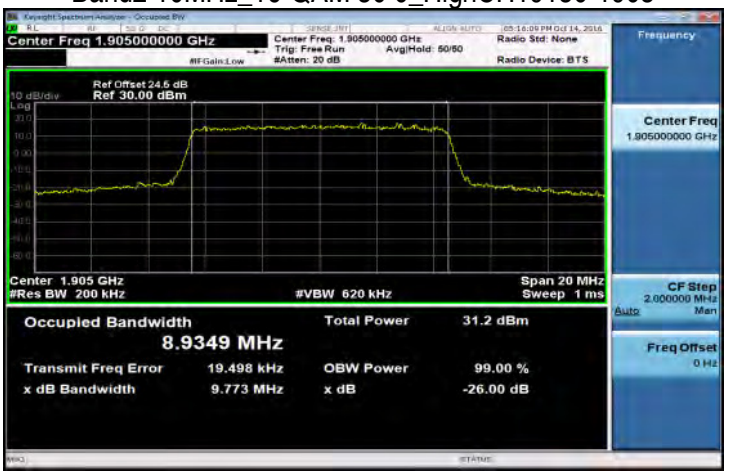
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Band2 10MHz_QPSK 50 0_HighCH19150-1905

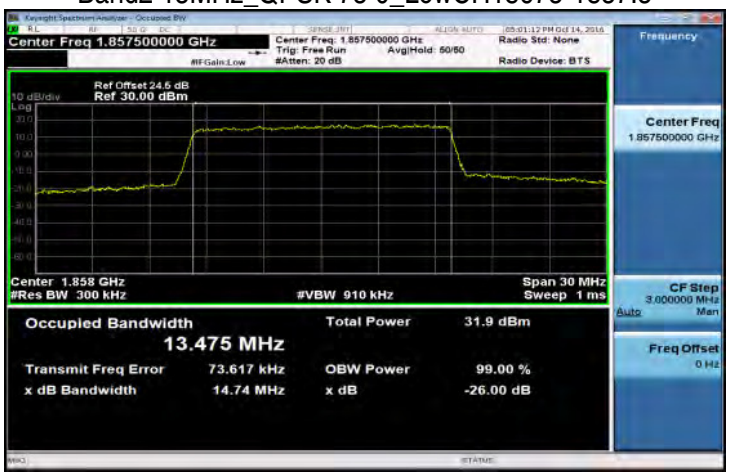


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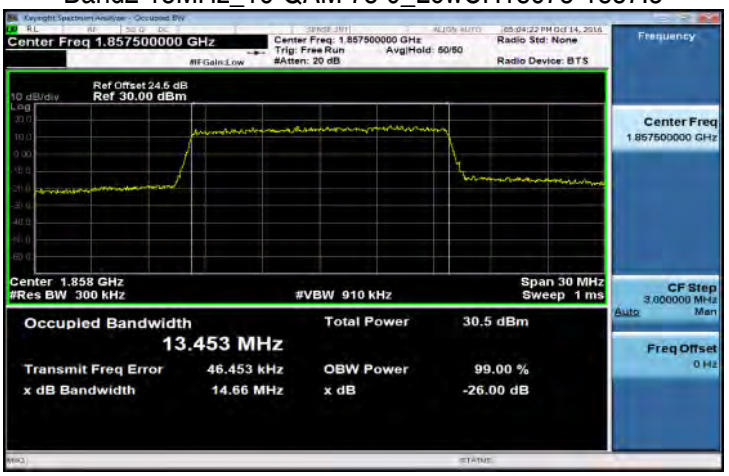


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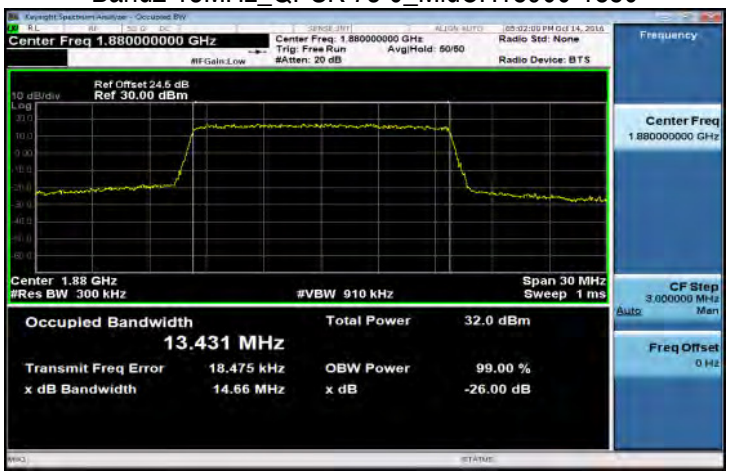
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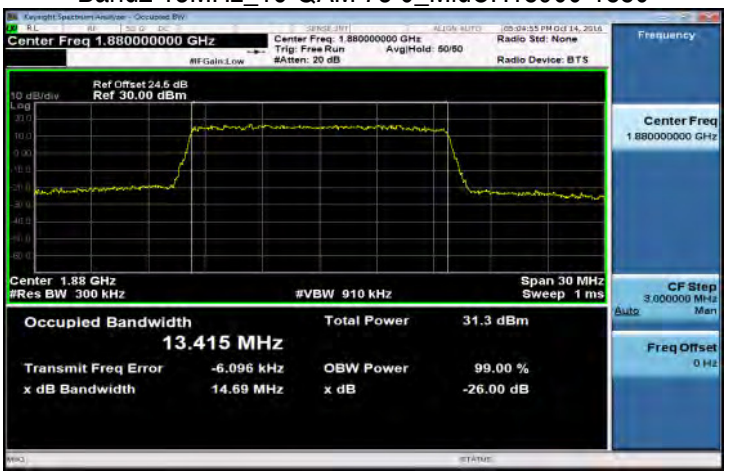
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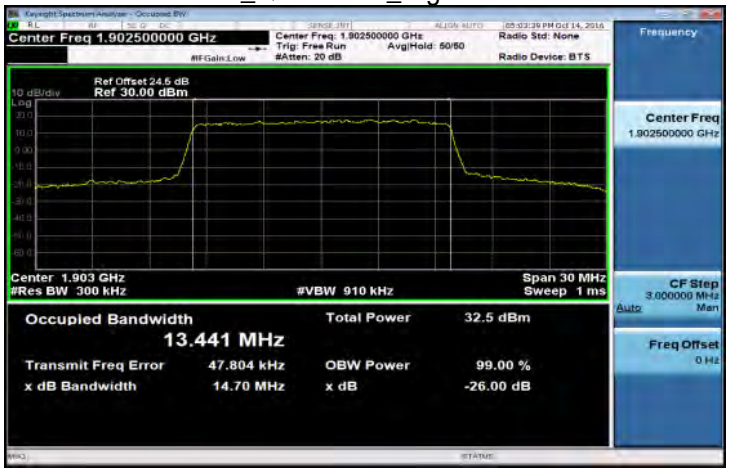
Band2 15MHz_QPSK 75 0_MidCH18900-1880



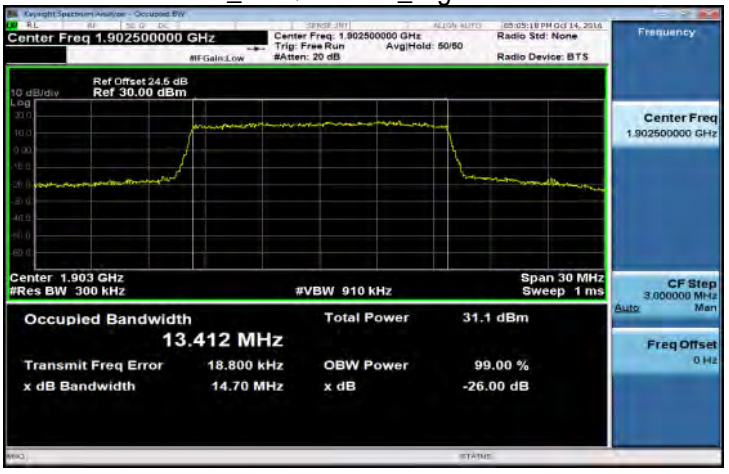
Band2 15MHz_16-QAM 75 0_MidCH18900-1880



Band2 15MHz_QPSK 75 0_HighCH19125-1902.5

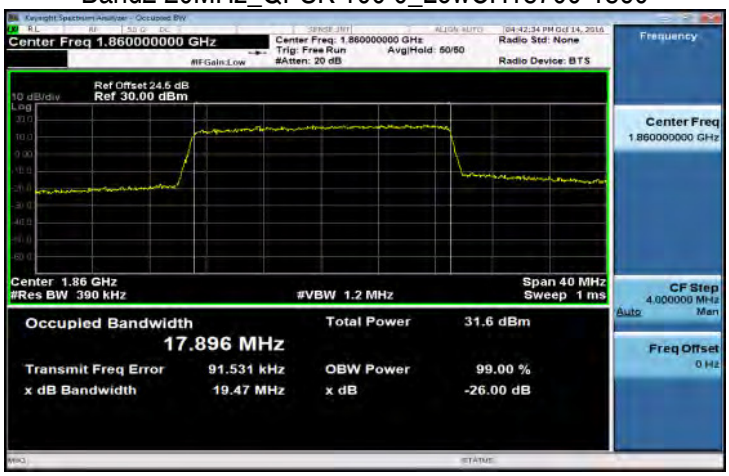


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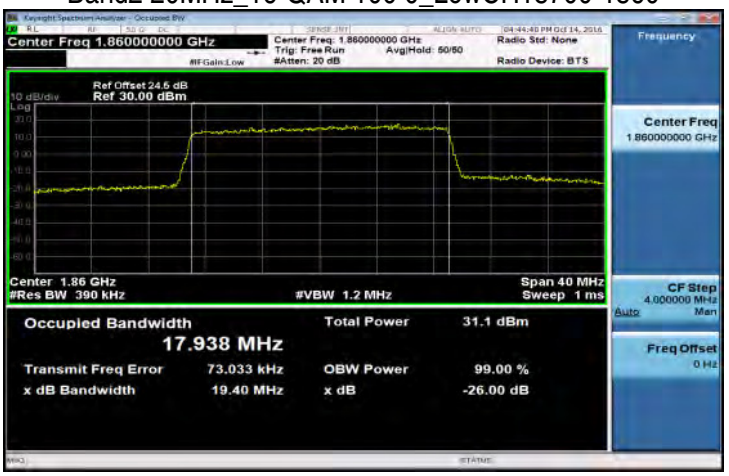


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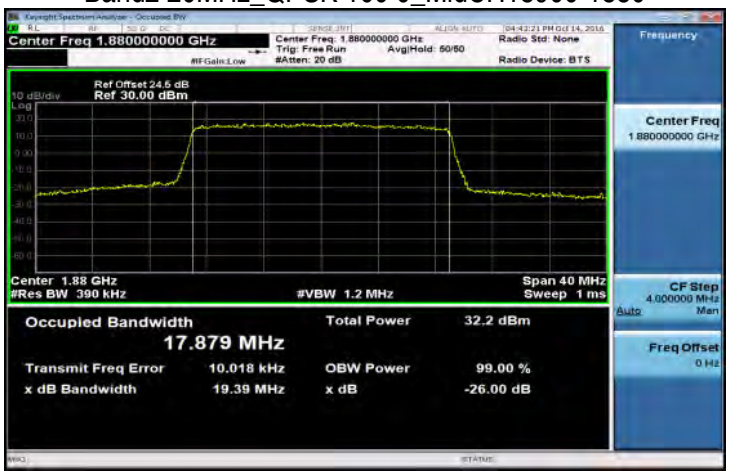
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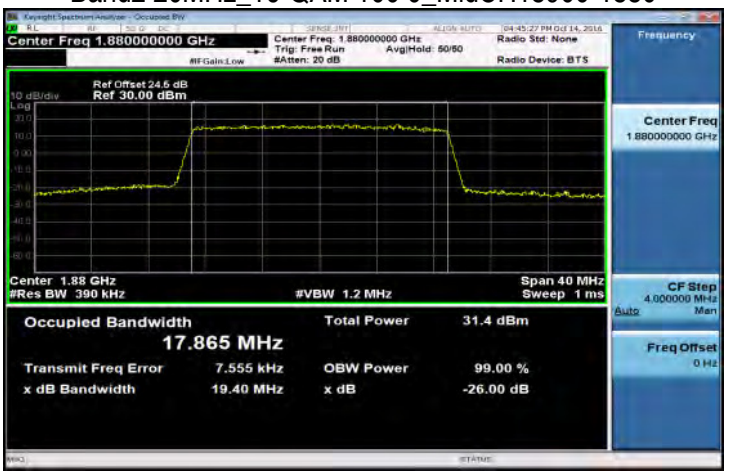
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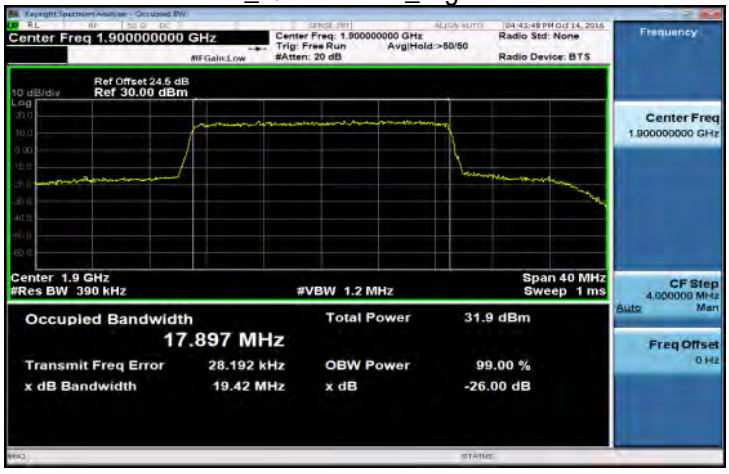
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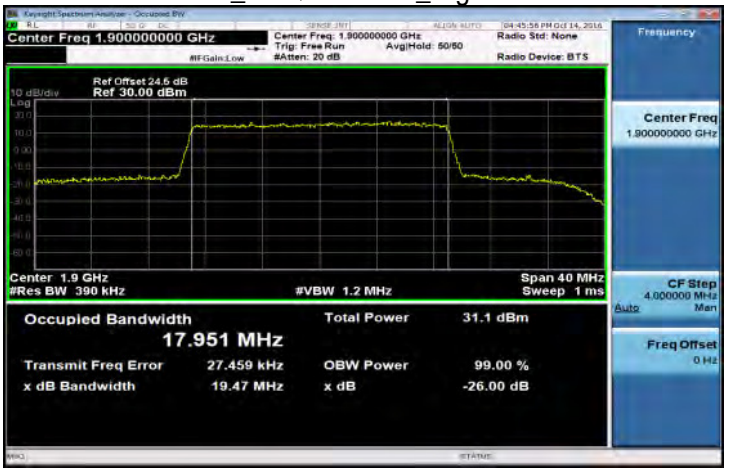
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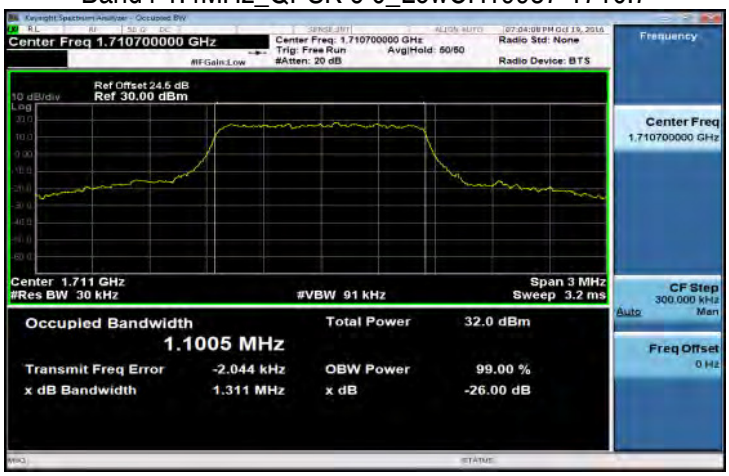


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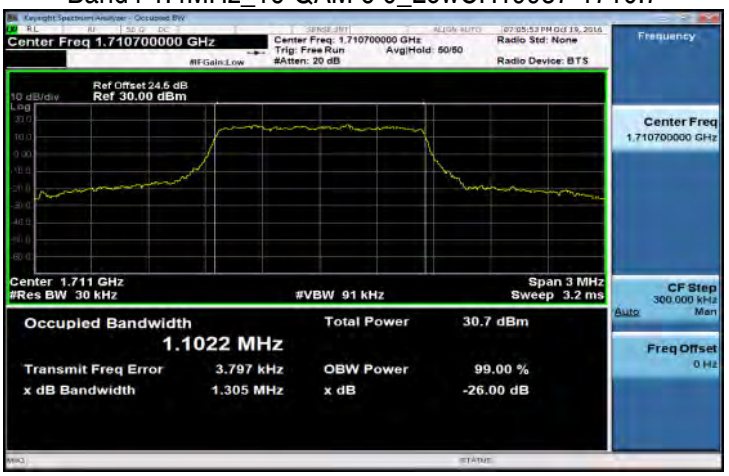


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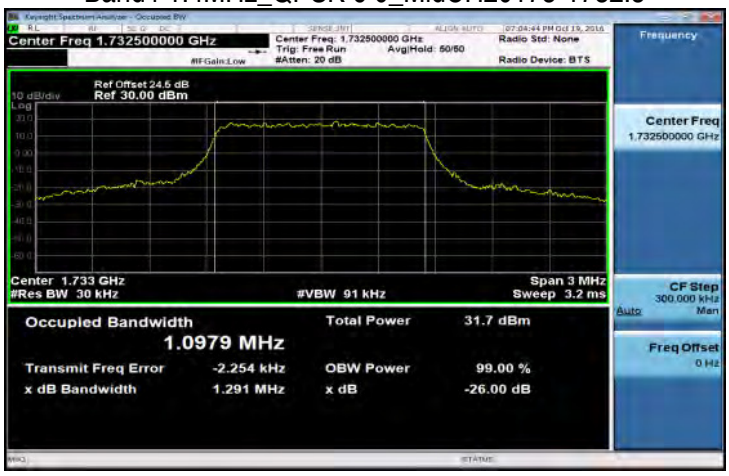
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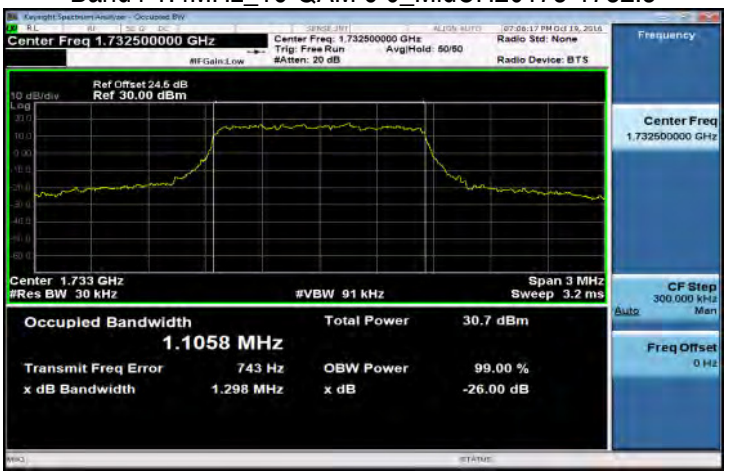
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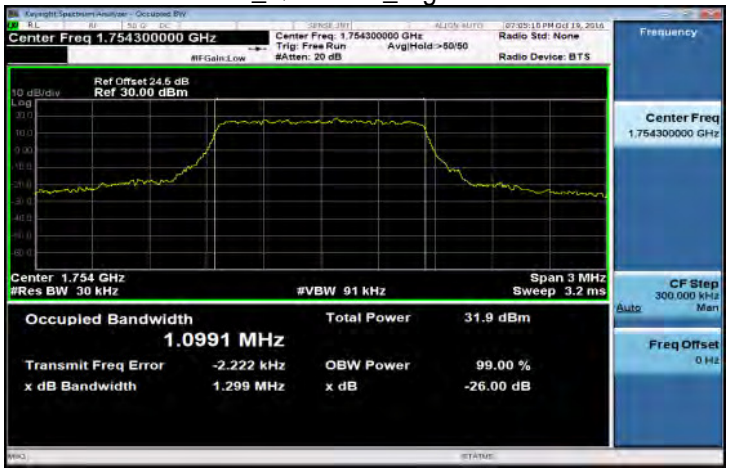
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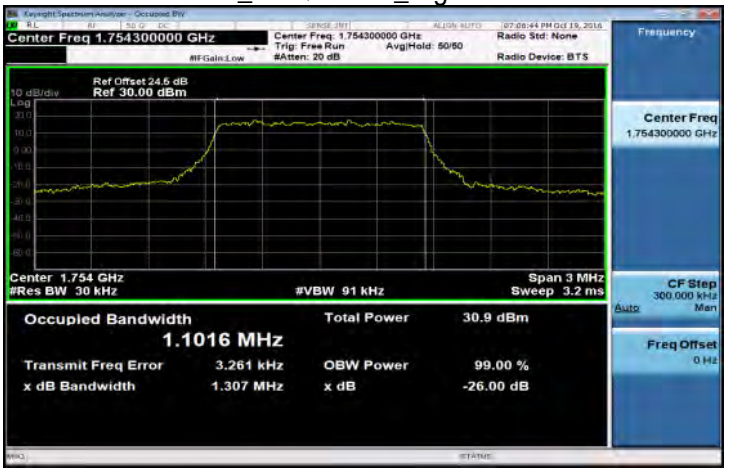
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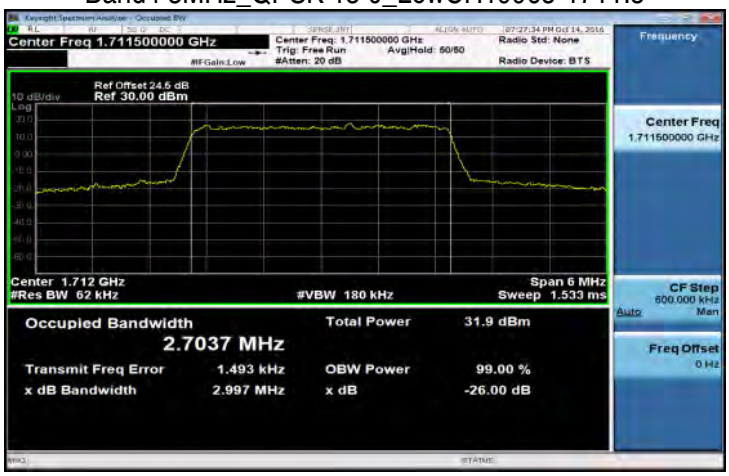


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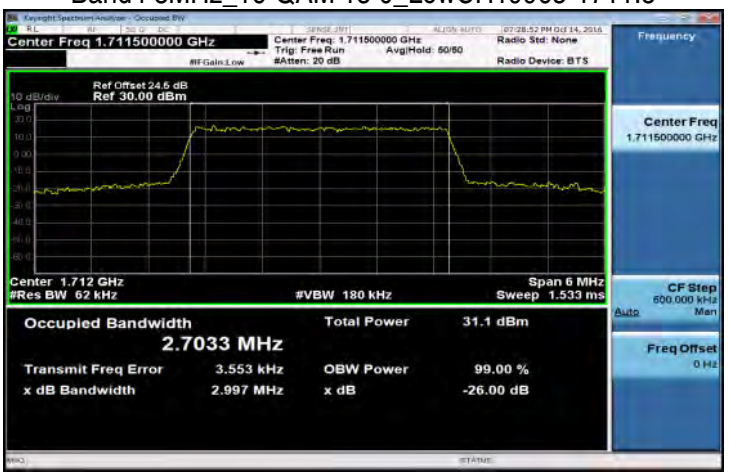


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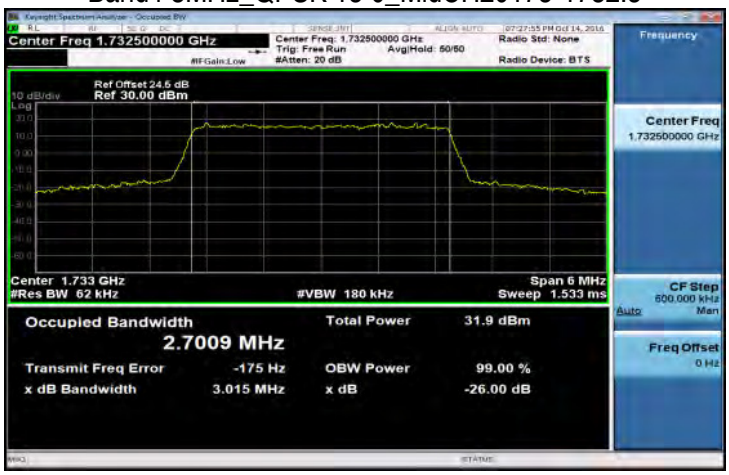
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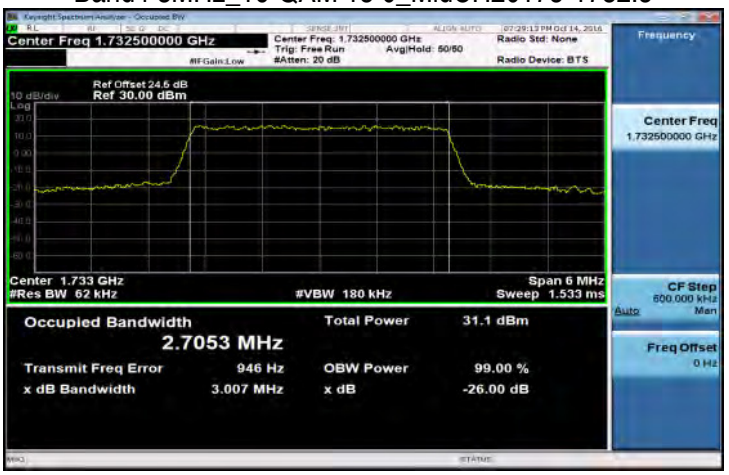
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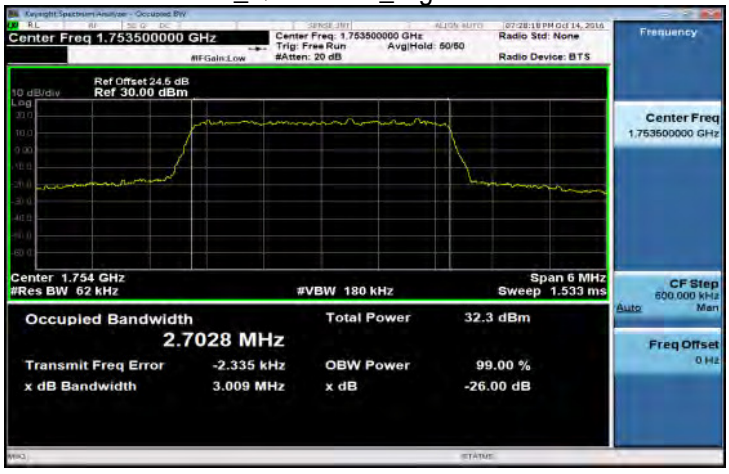
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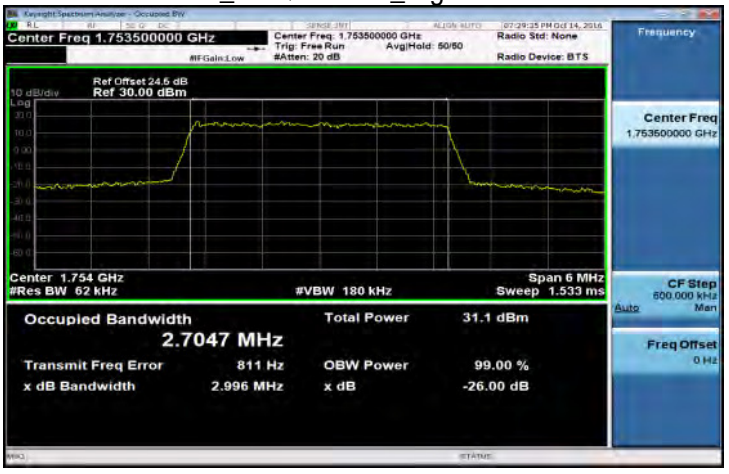
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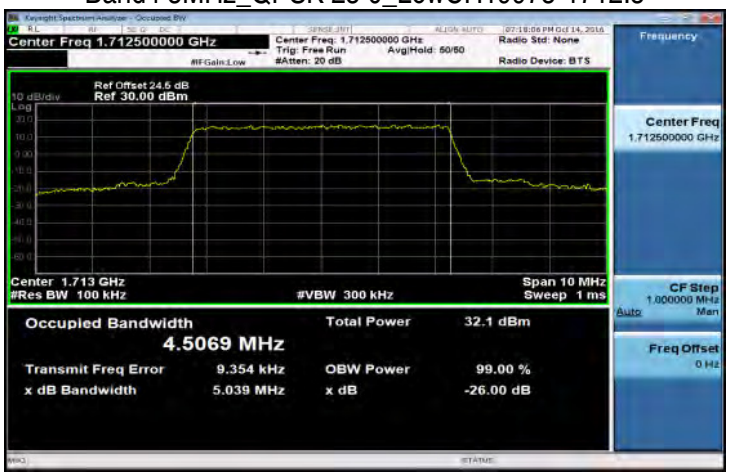


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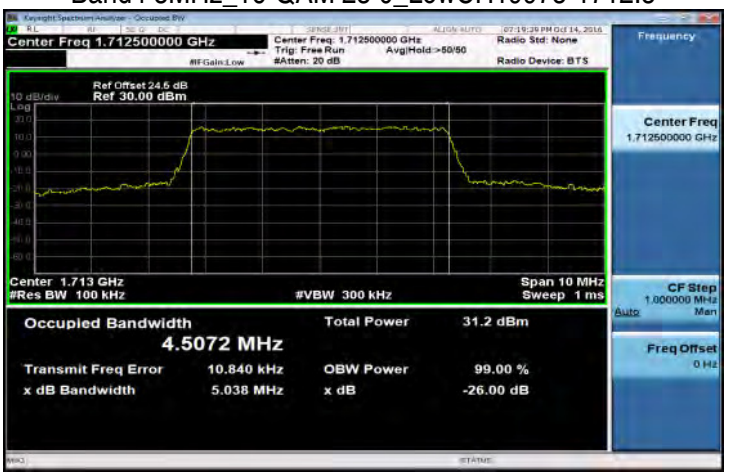


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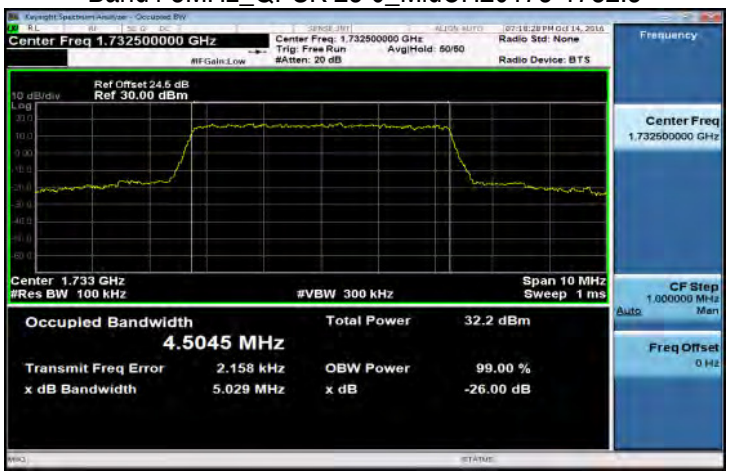
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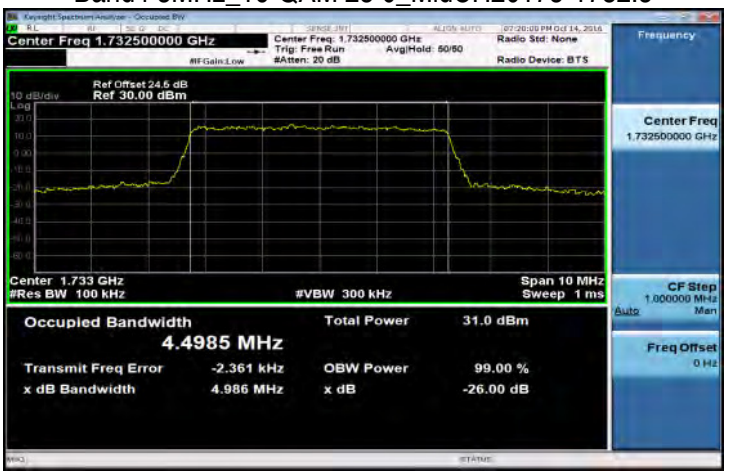
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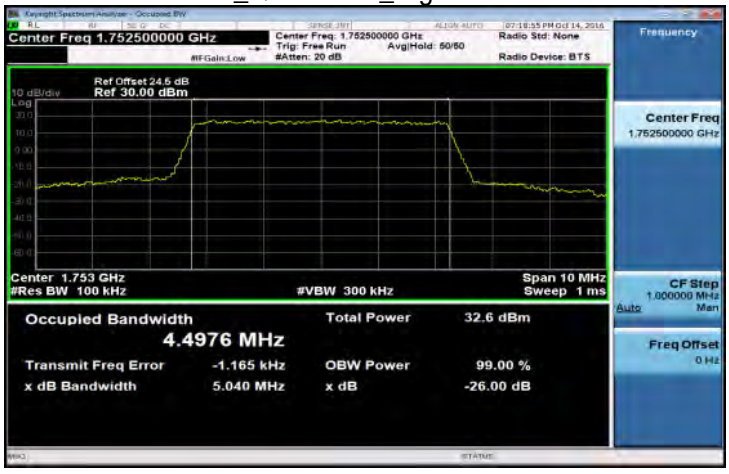
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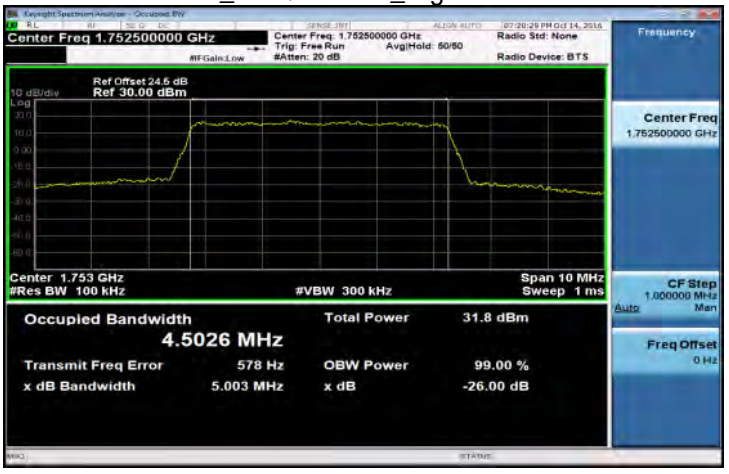
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Band4 5MHz_QPSK 25 0_HighCH20375-1752.5

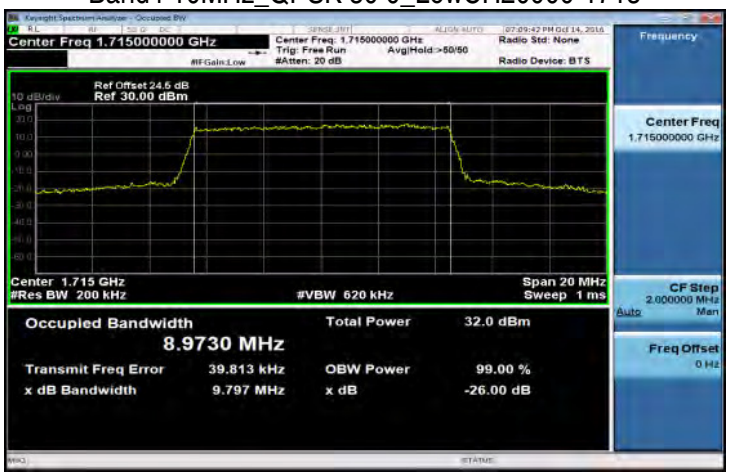


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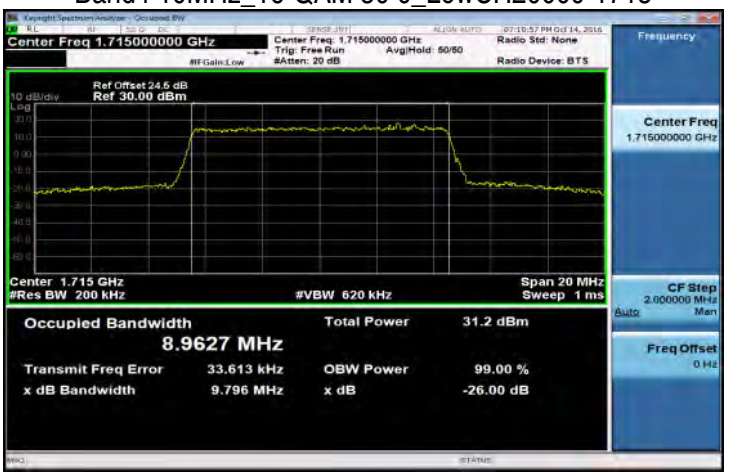


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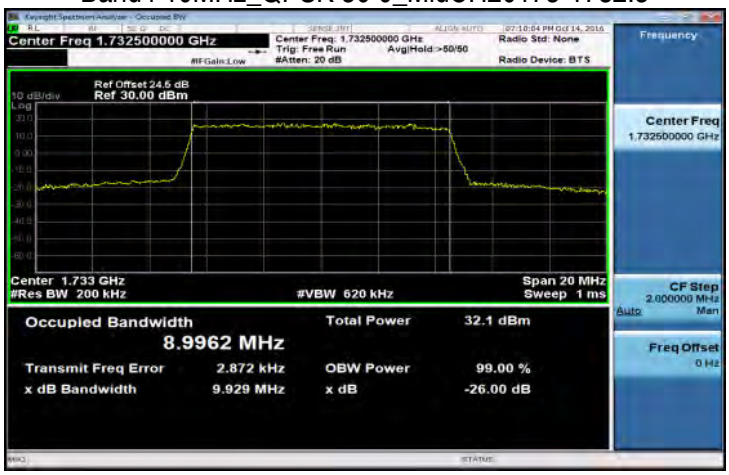
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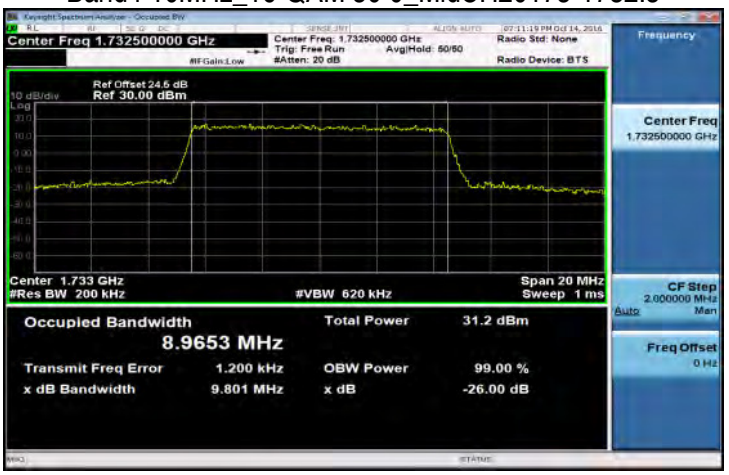
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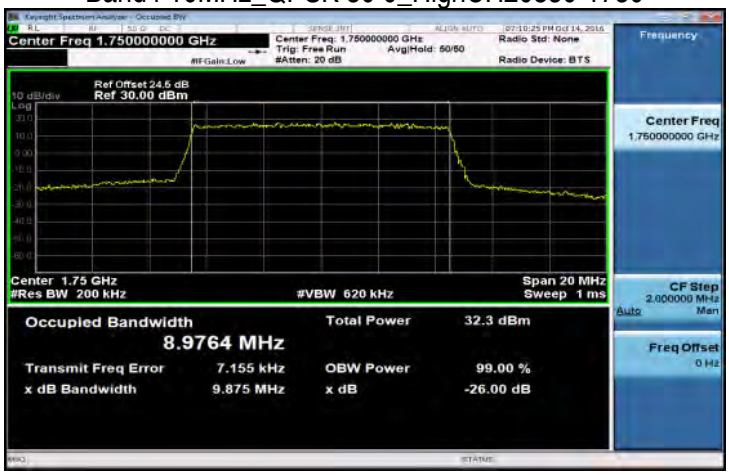
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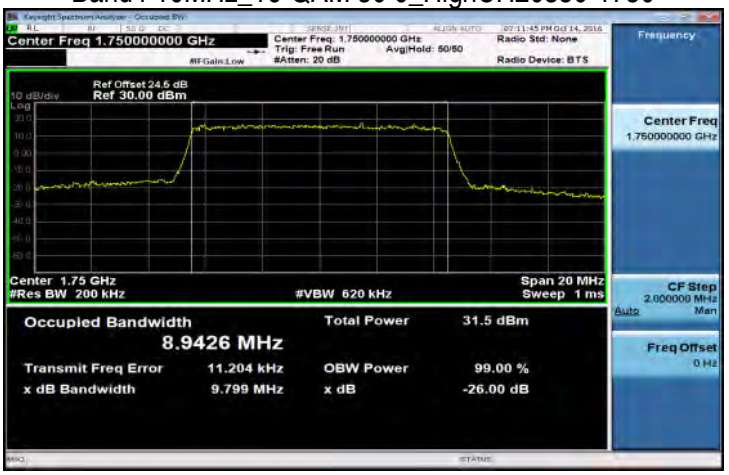
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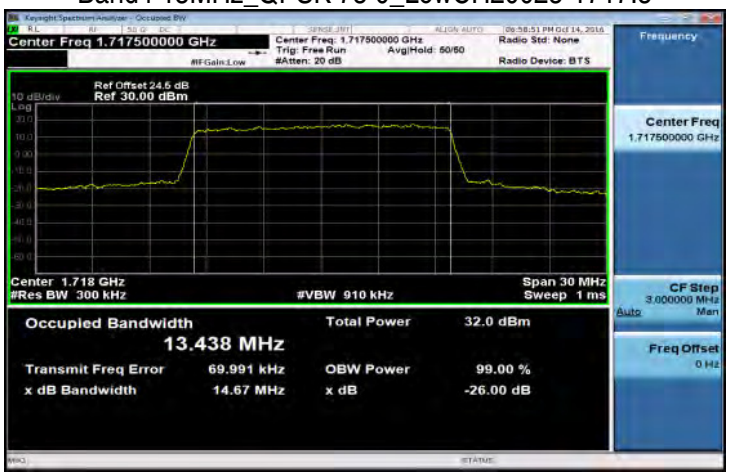


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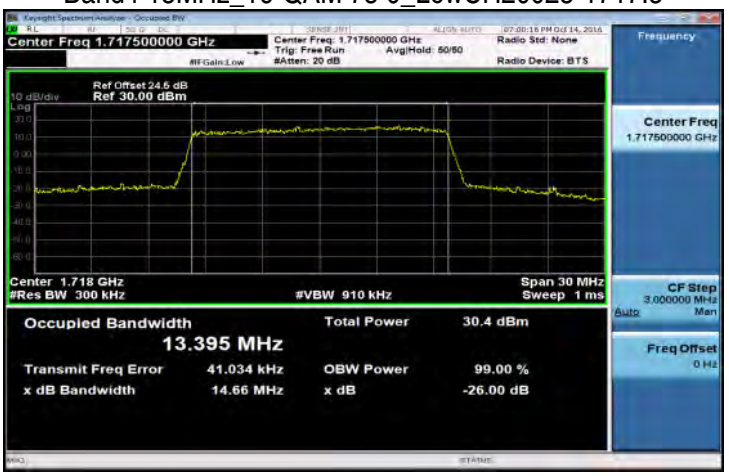


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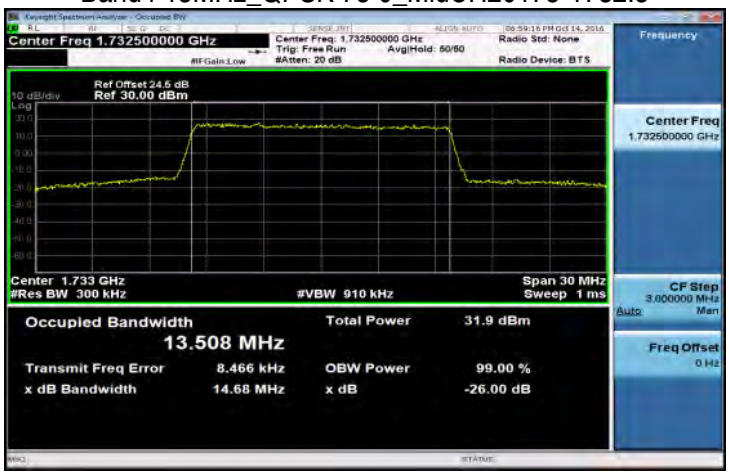
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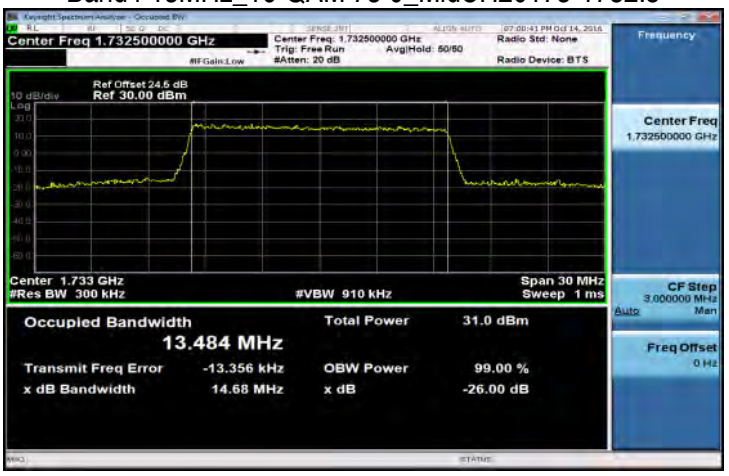
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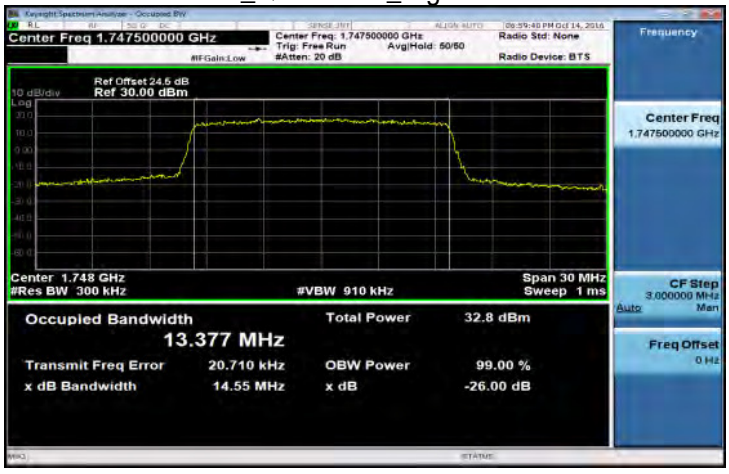
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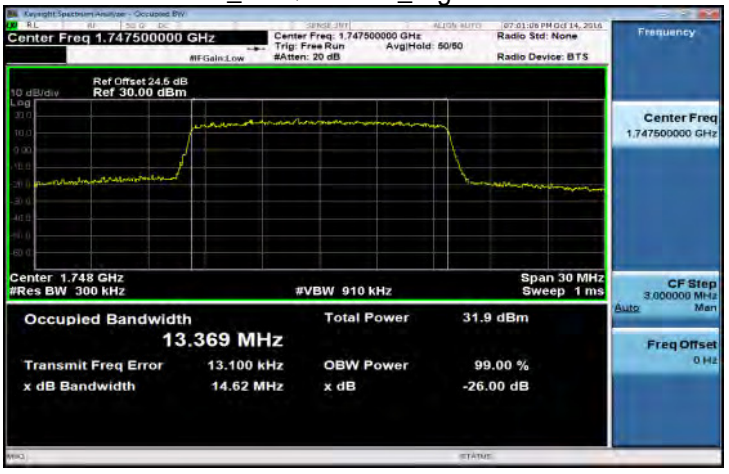
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Band4 15MHz_QPSK 75 0_HighCH20325-1747.5

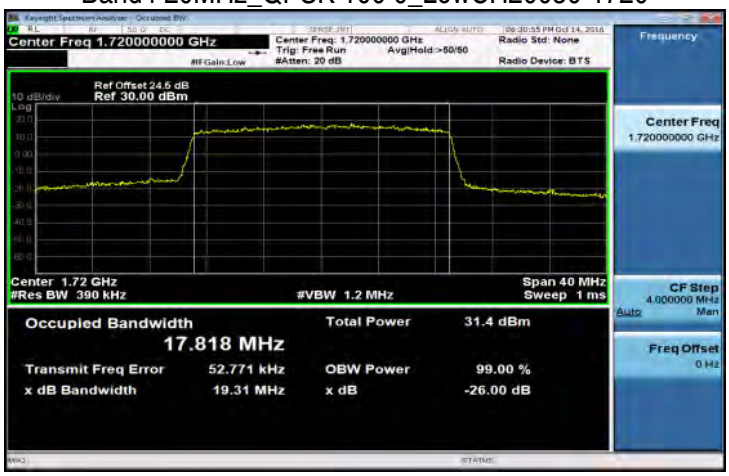


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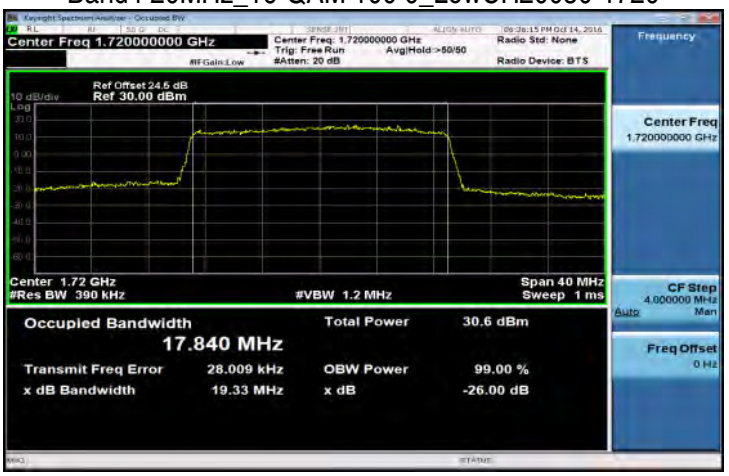


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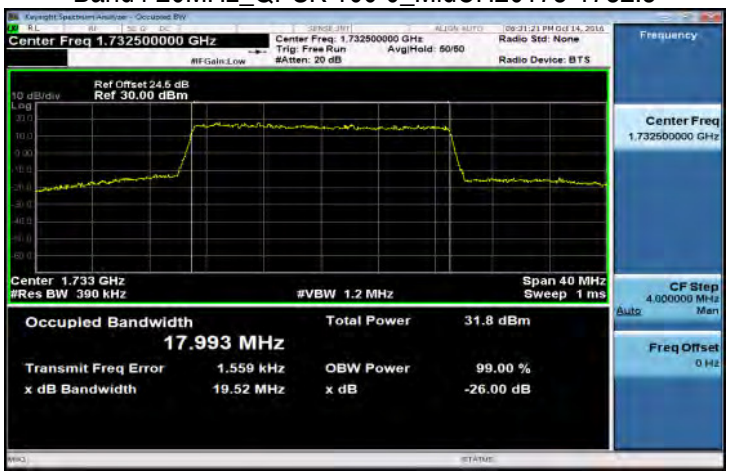
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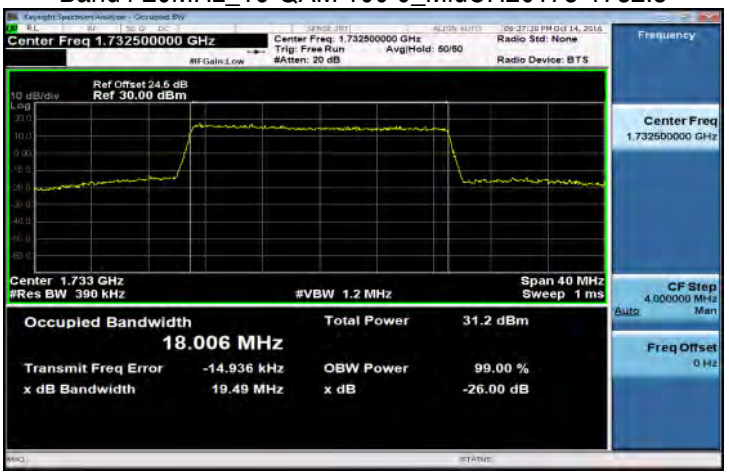
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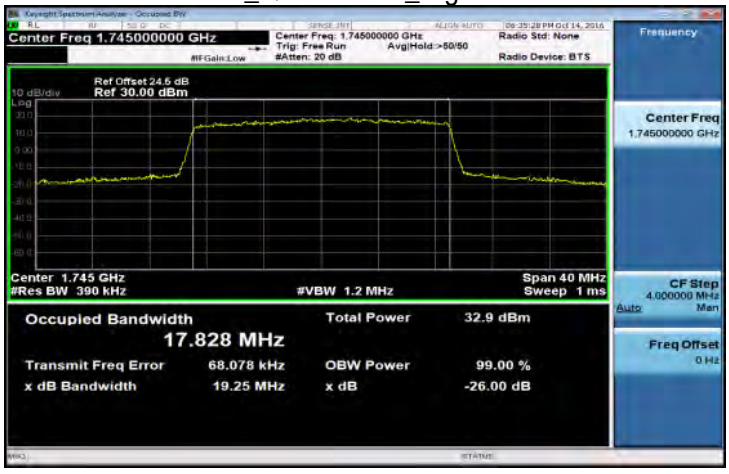
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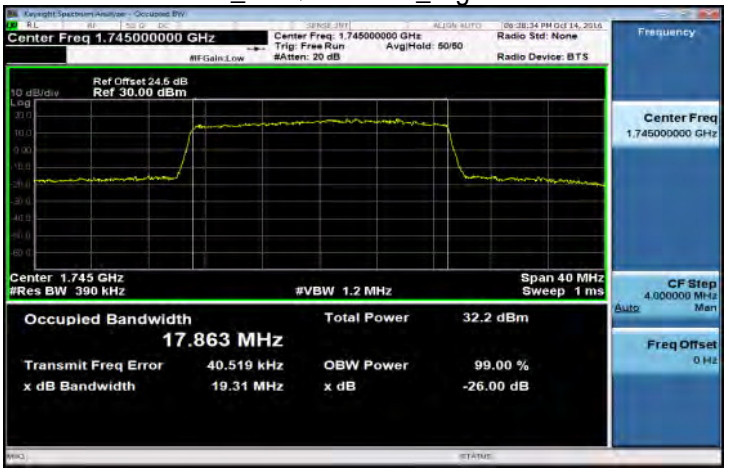
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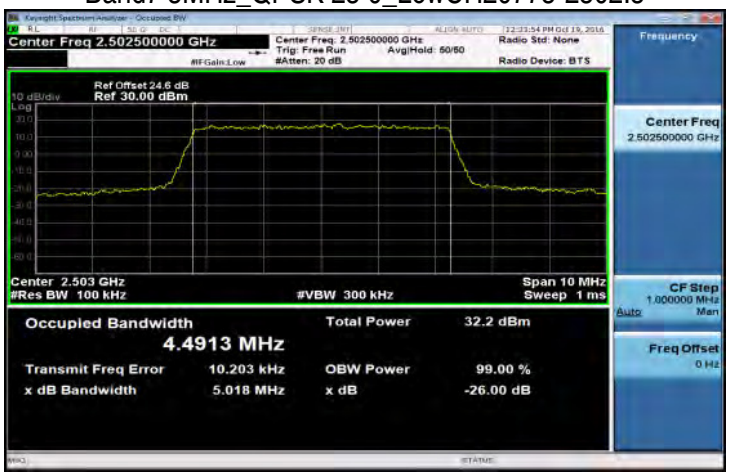


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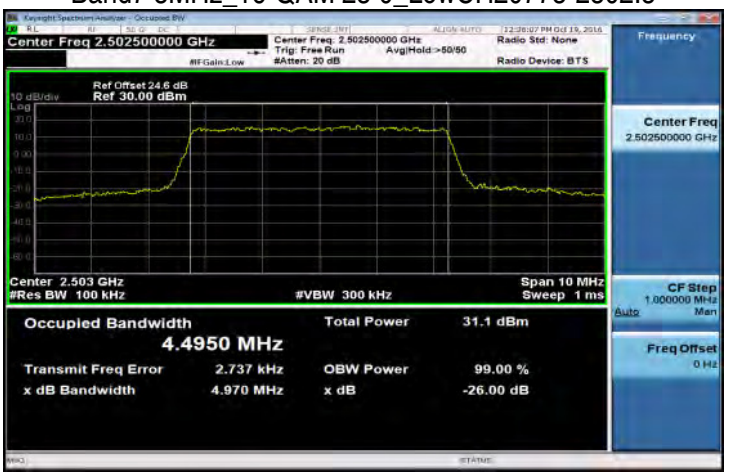


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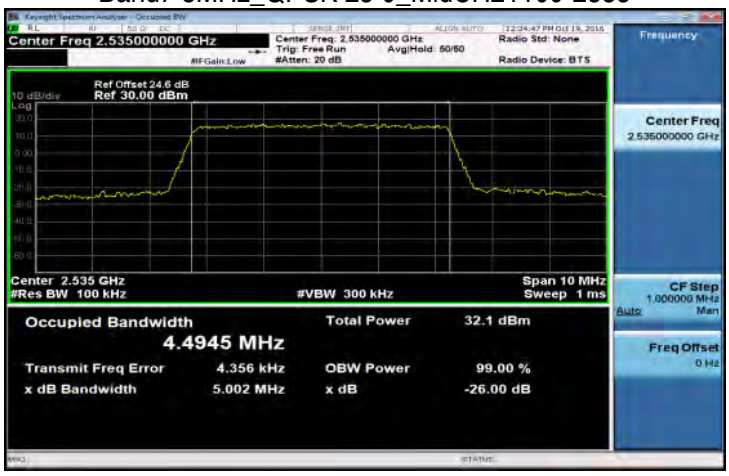
Band7 5MHz_QPSK 25 0_LowCH20775-2502.5



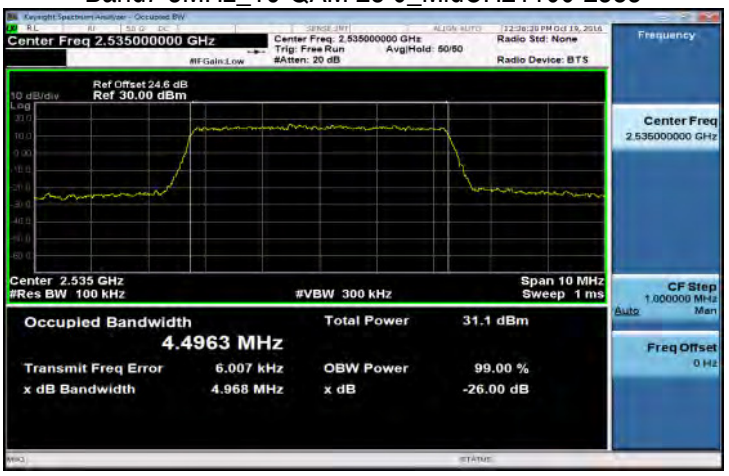
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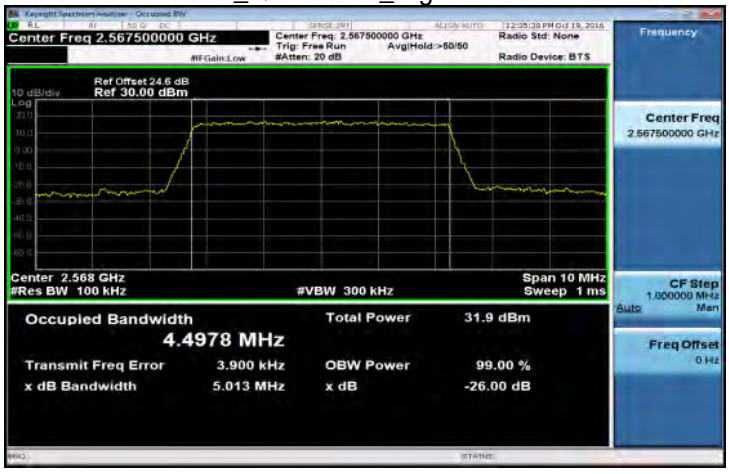
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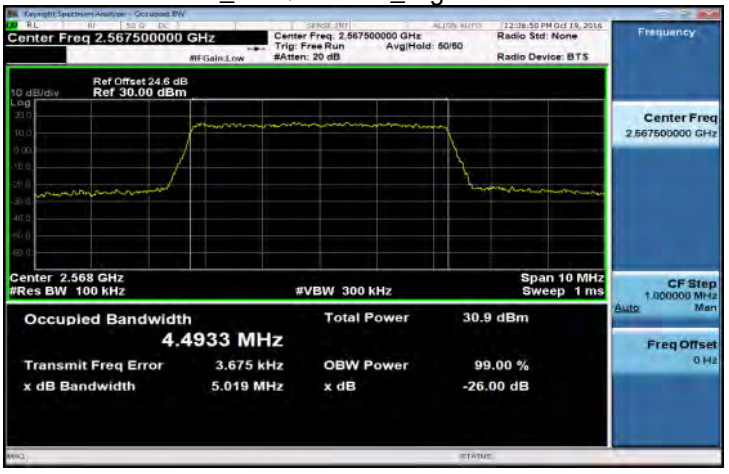
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Band7 5MHz_QPSK 25 0_HighCH21425-2567.5

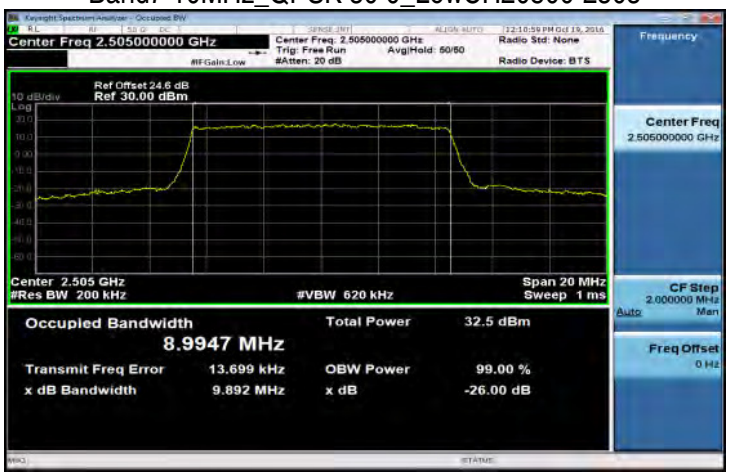


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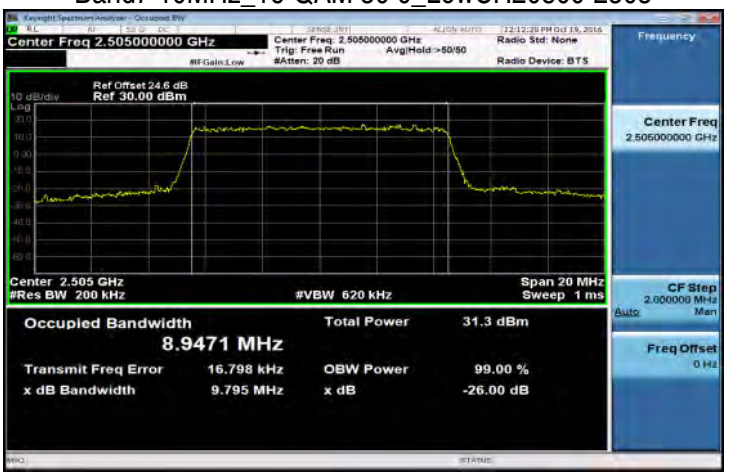


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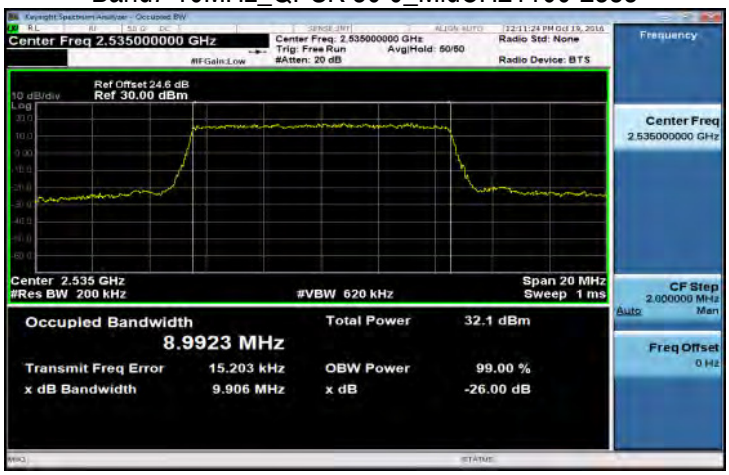
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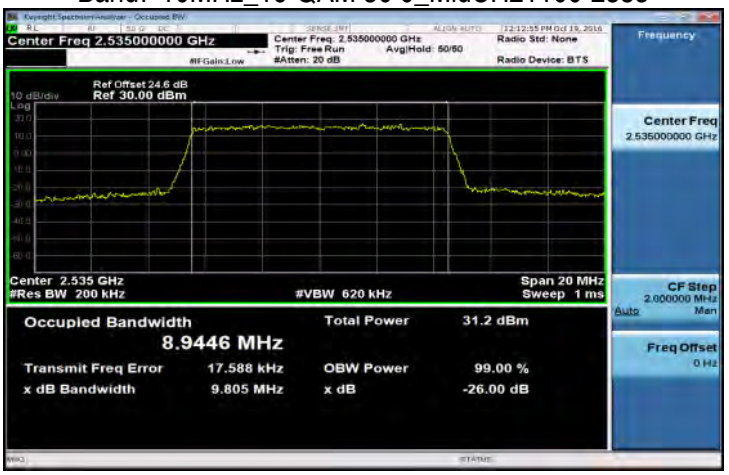
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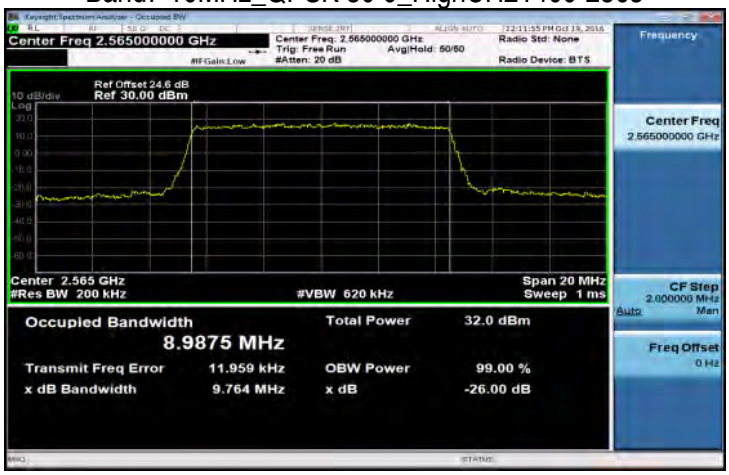
Band7 10MHz_QPSK 50 0_MidCH21100-2535



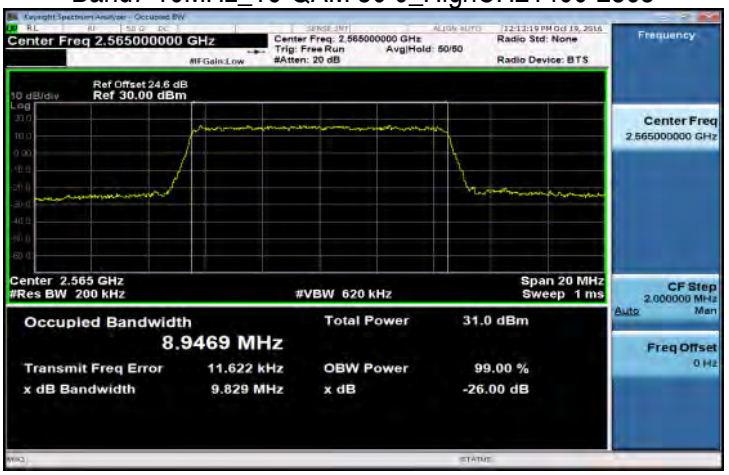
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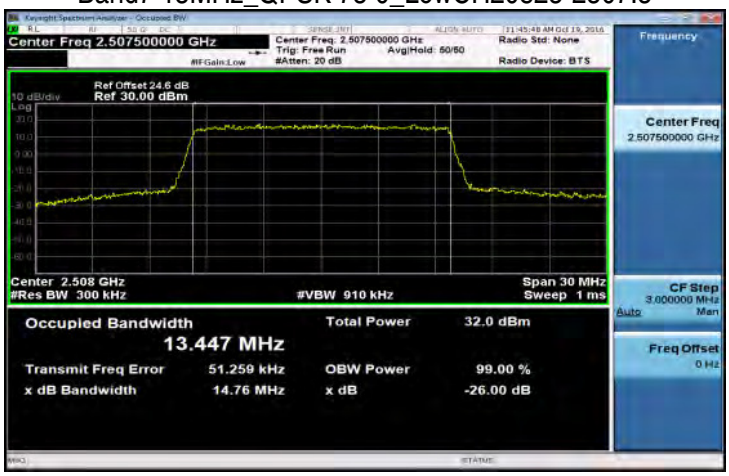


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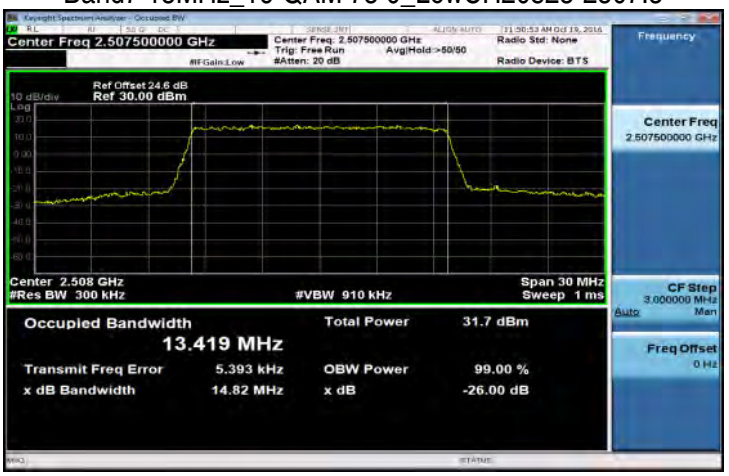


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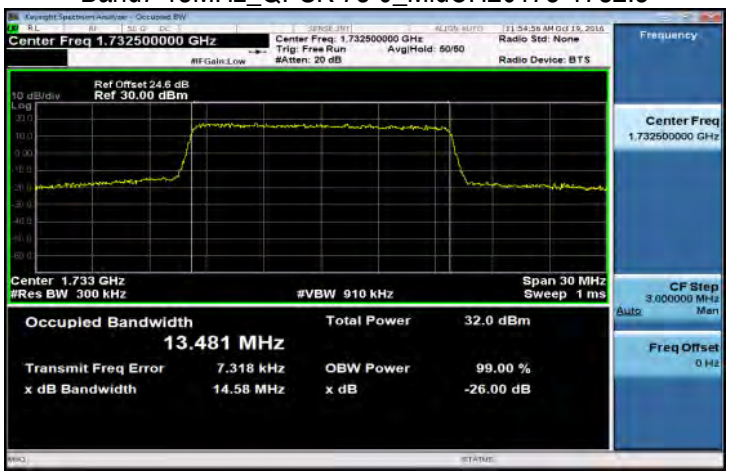
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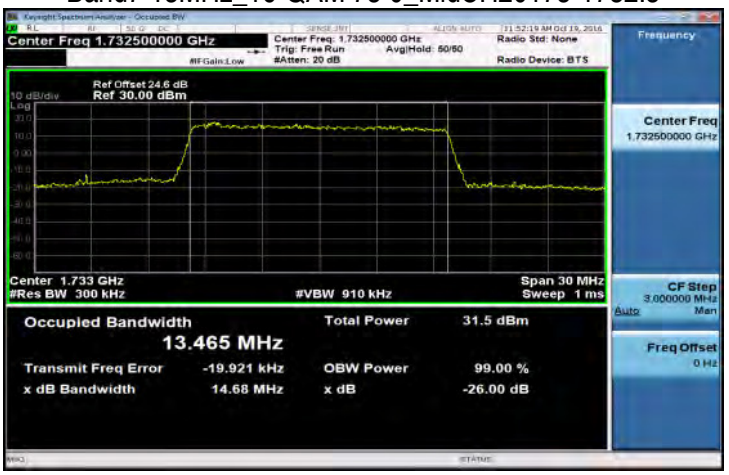
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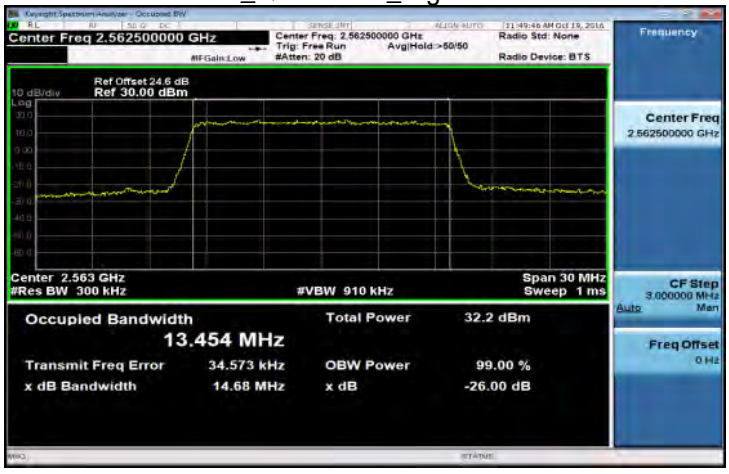
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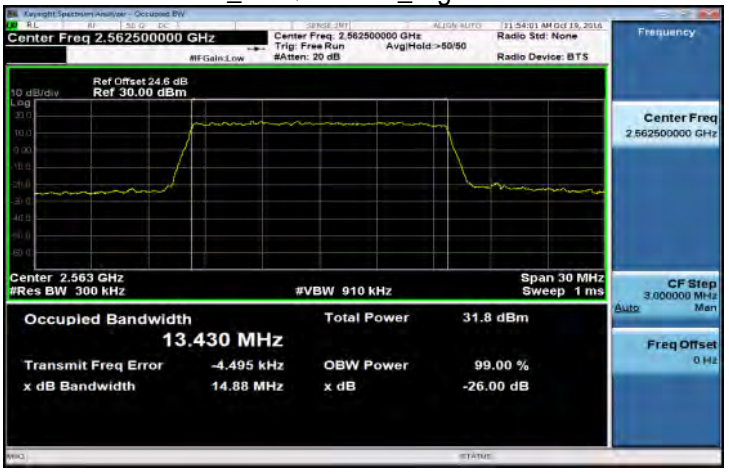
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Band7 15MHz_QPSK 75 0_HighCH21375-2562.5

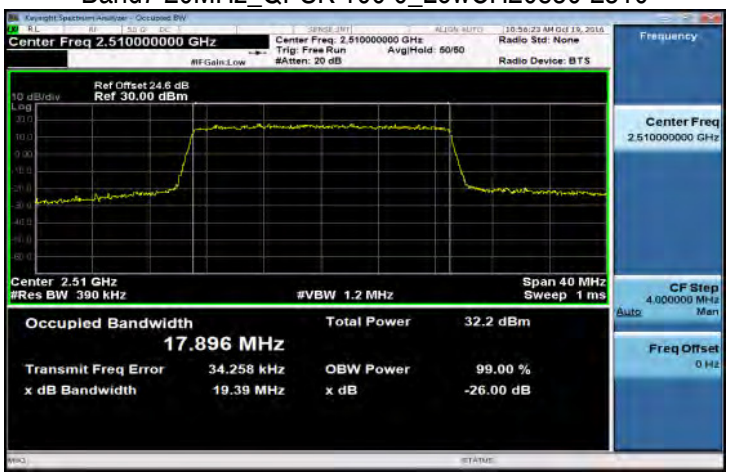


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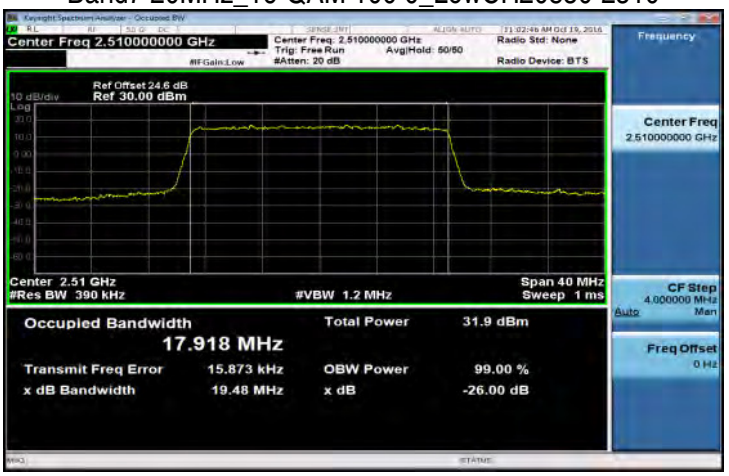


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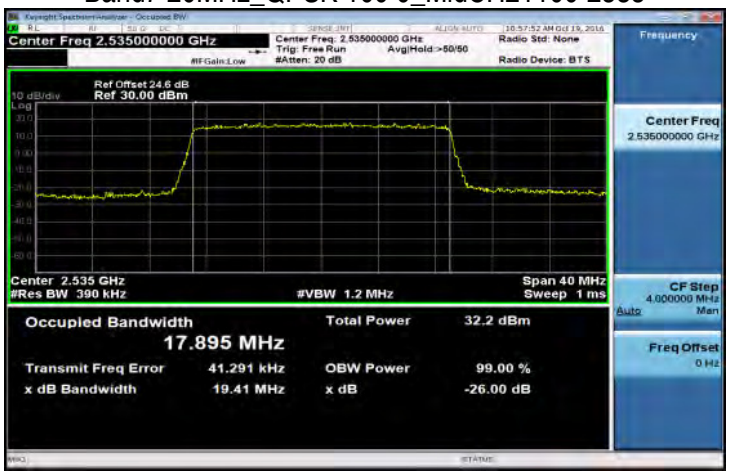
Band7 20MHz_QPSK 100 0_LowCH20850-2510



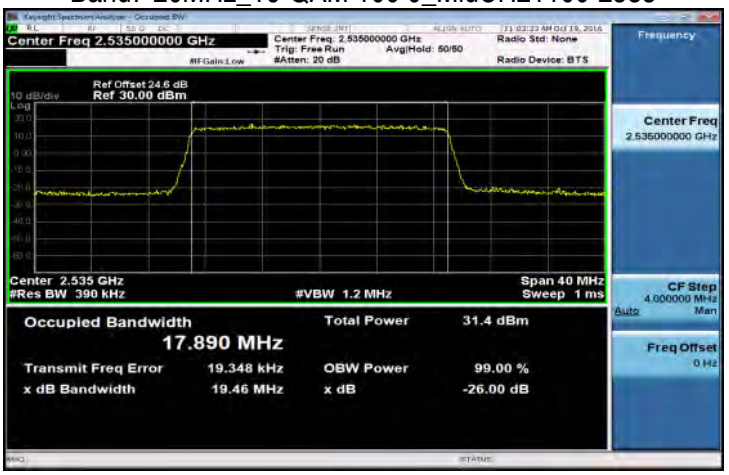
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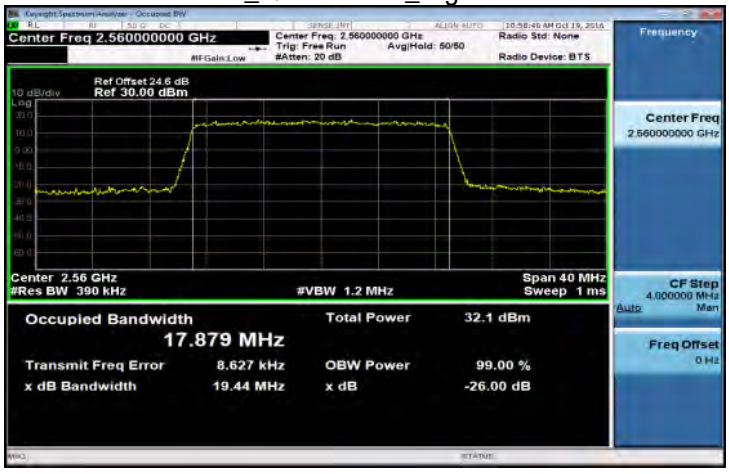
Band7 20MHz_QPSK 100 0_MidCH21100-2535



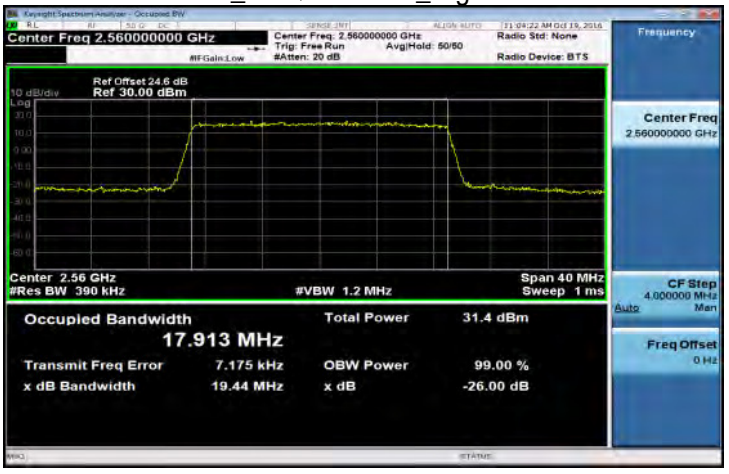
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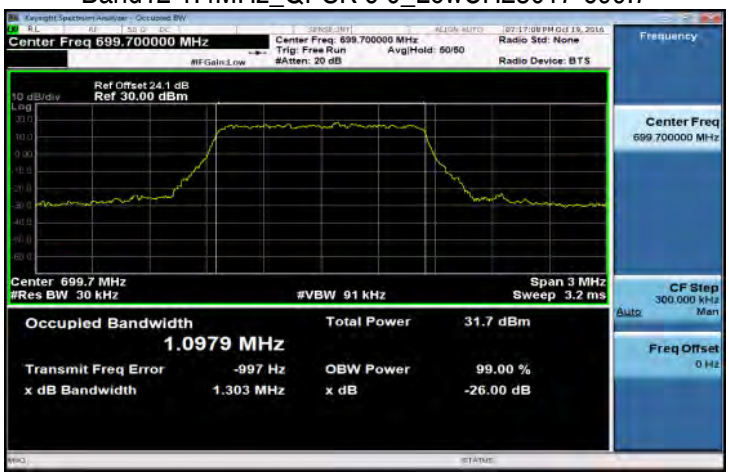


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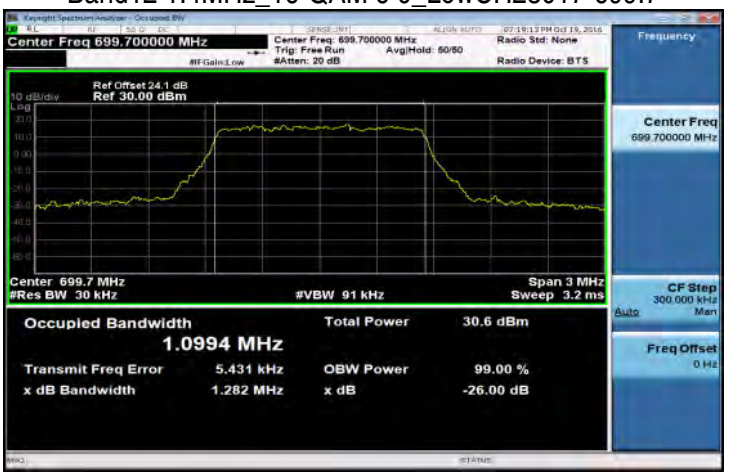


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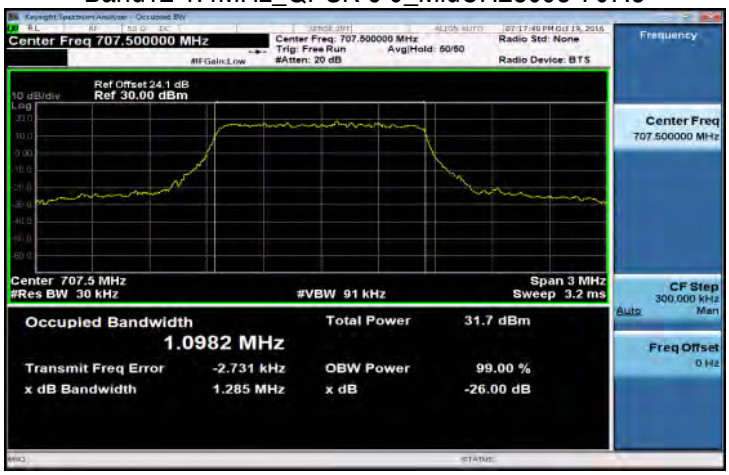
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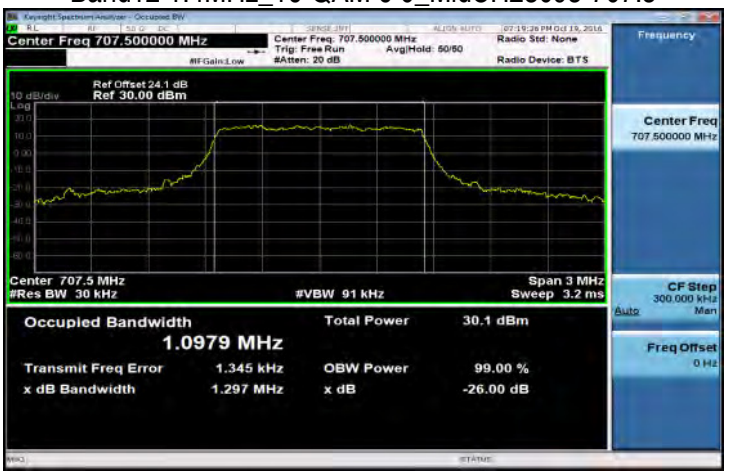
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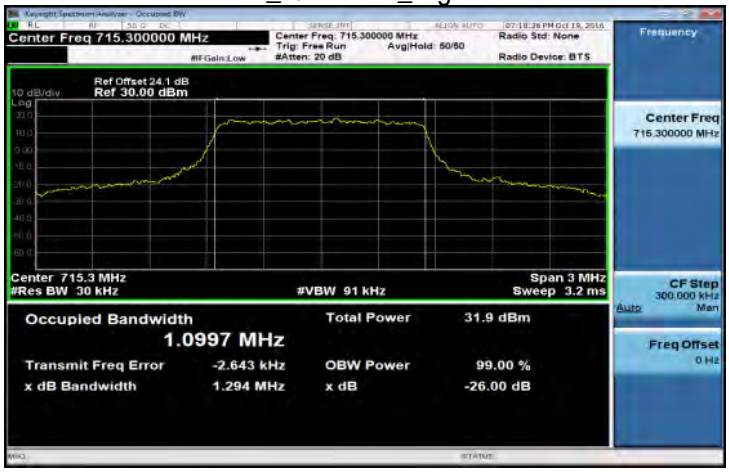
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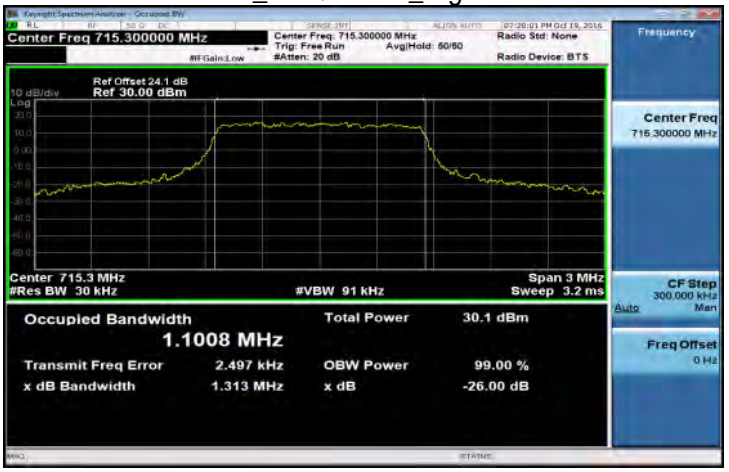
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Band12 1.4MHz_QPSK 6 0_HighCH23173-715.3

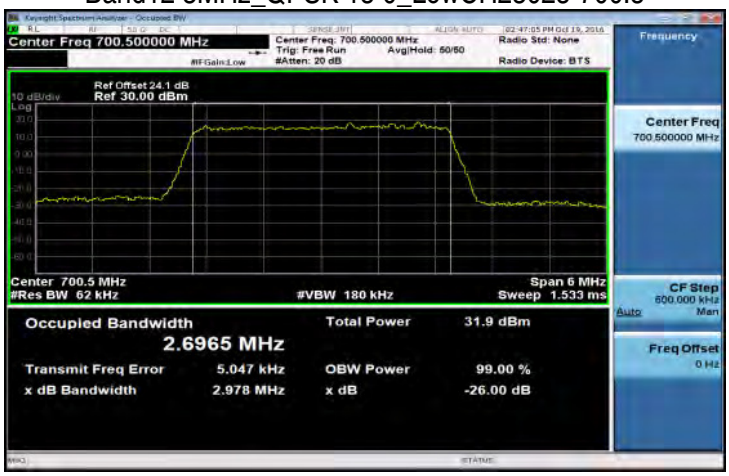


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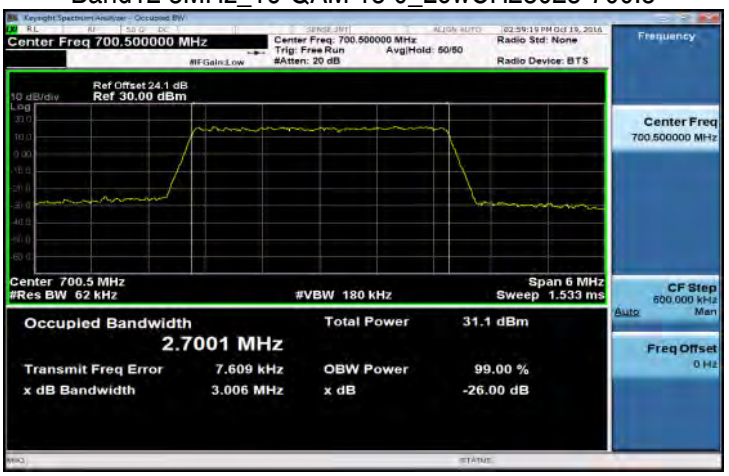


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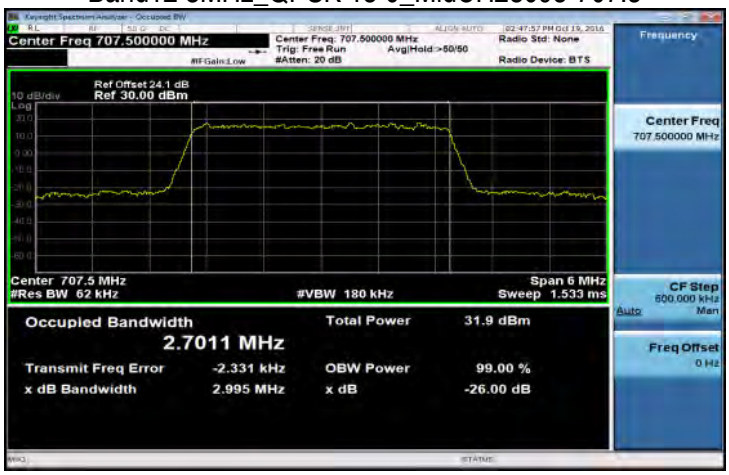
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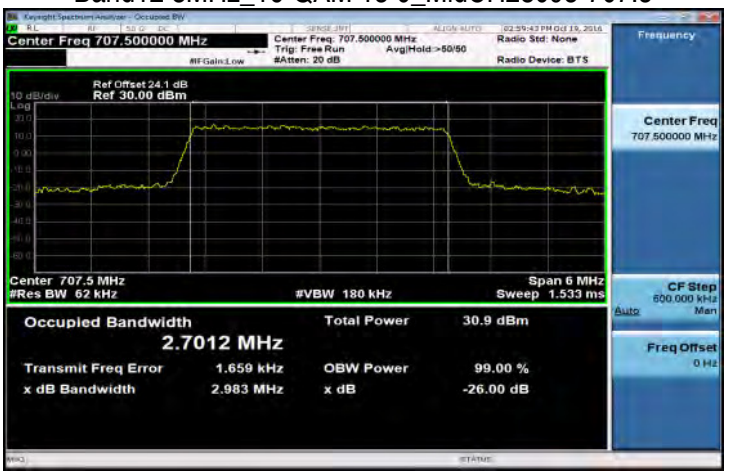
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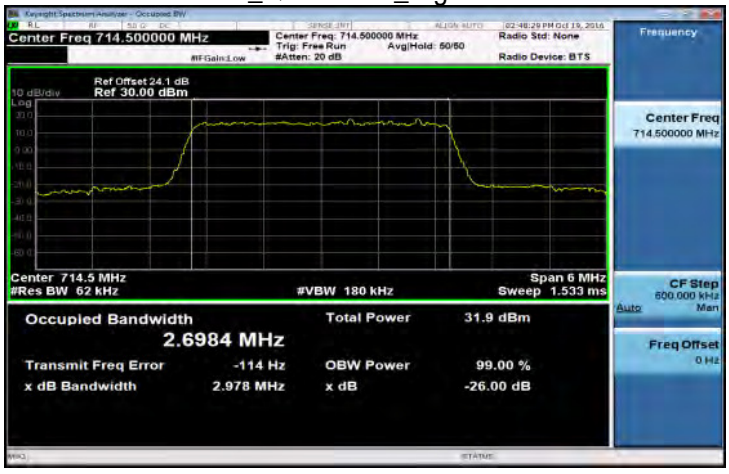
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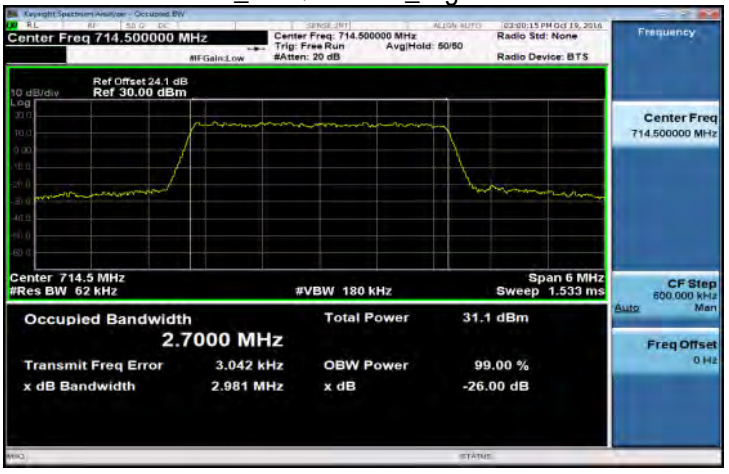
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Band12 3MHz_QPSK 15 0_HighCH23165-714.5

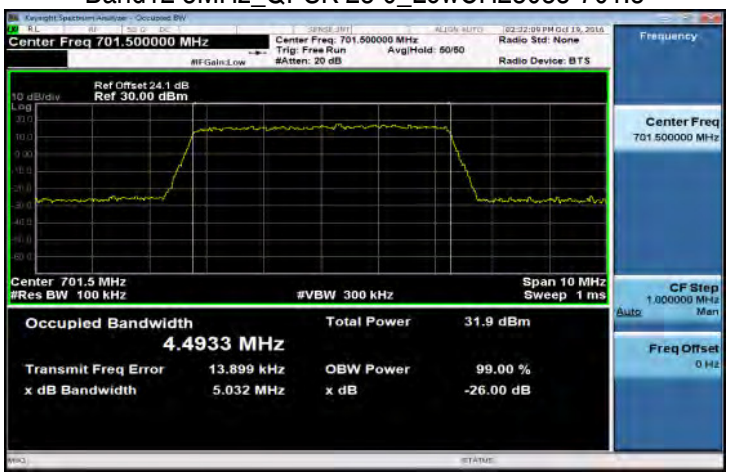


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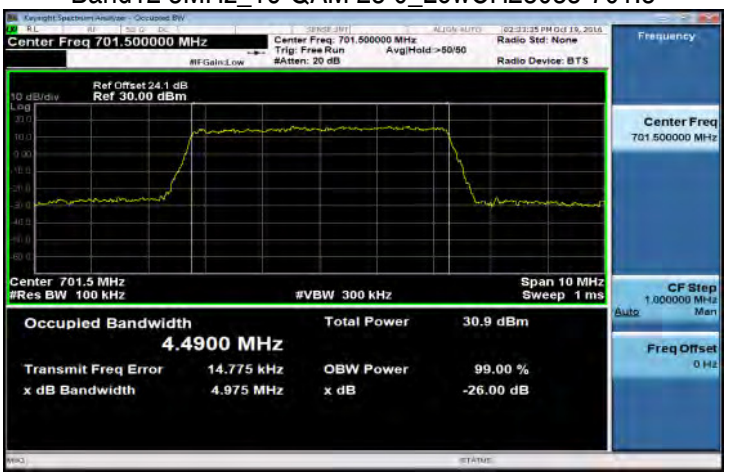


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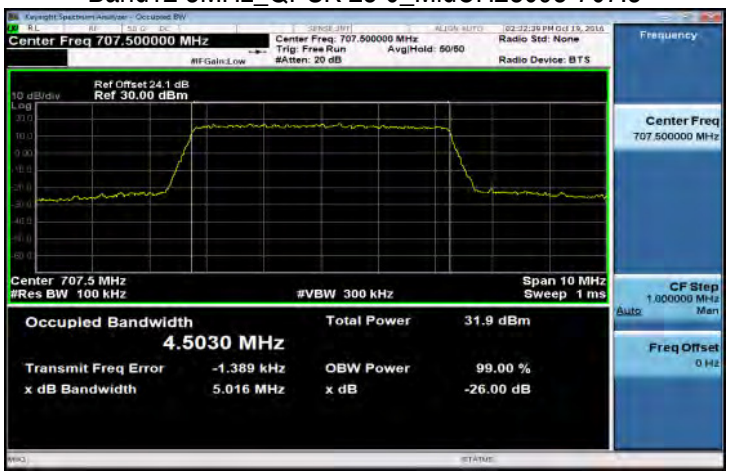
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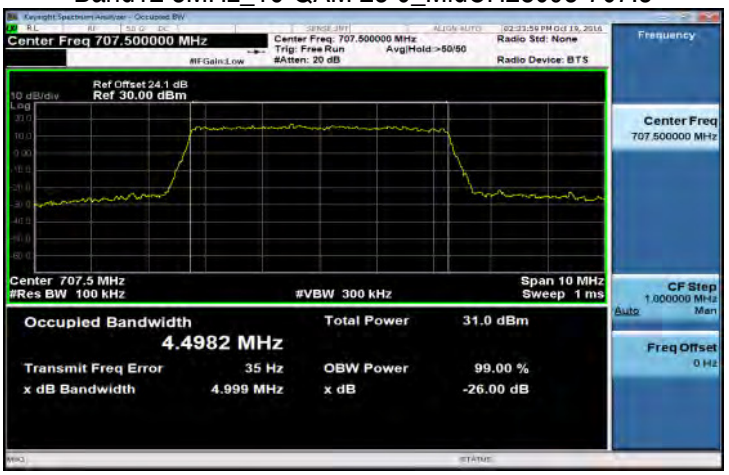
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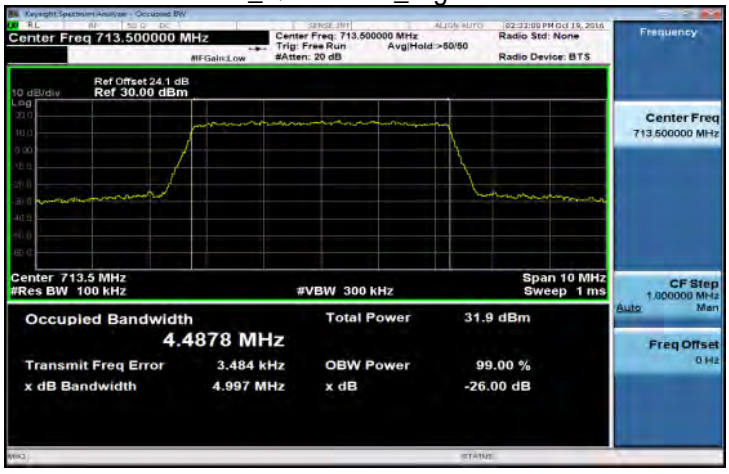
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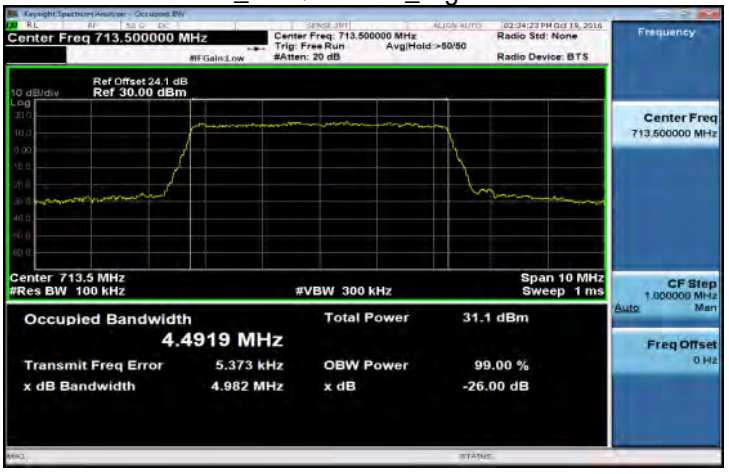
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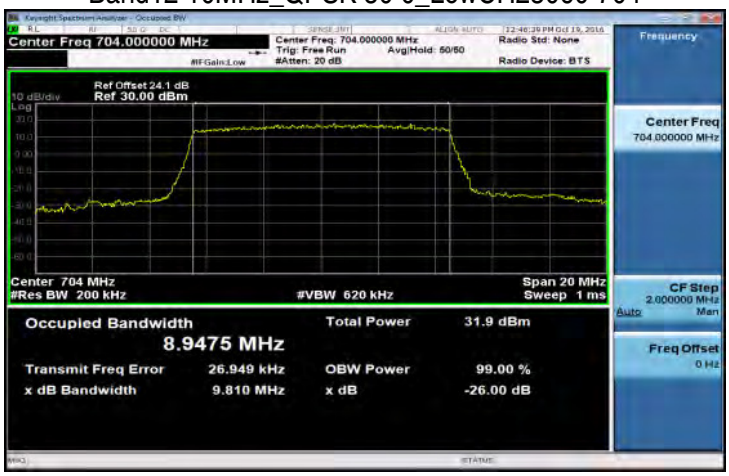


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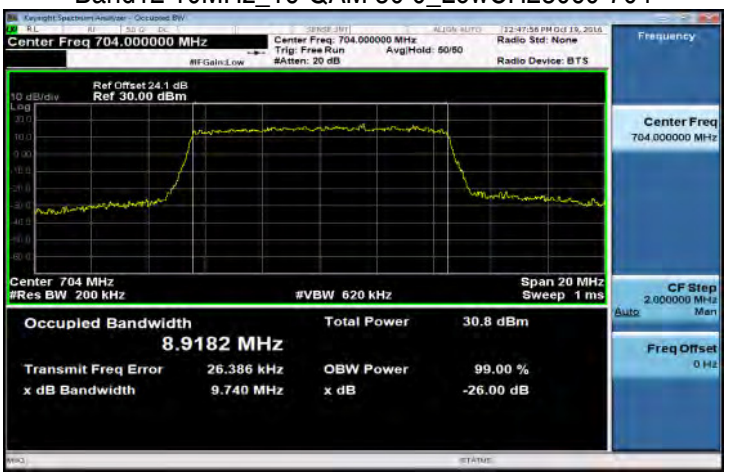


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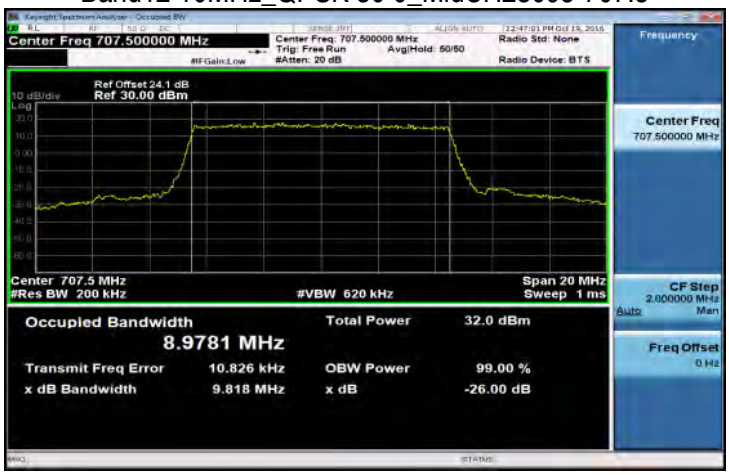
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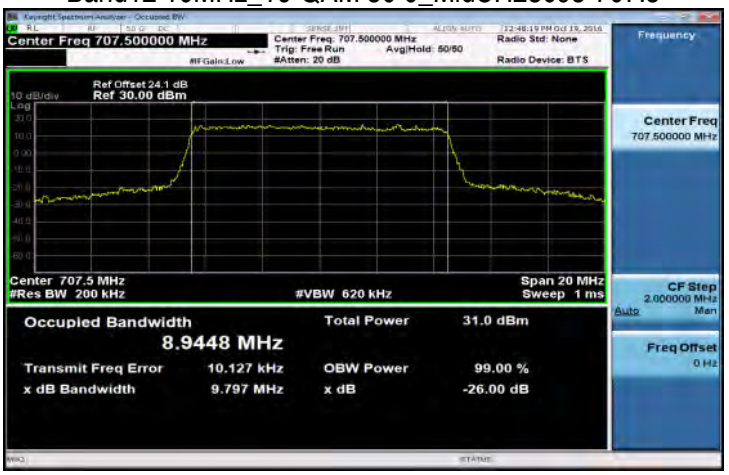
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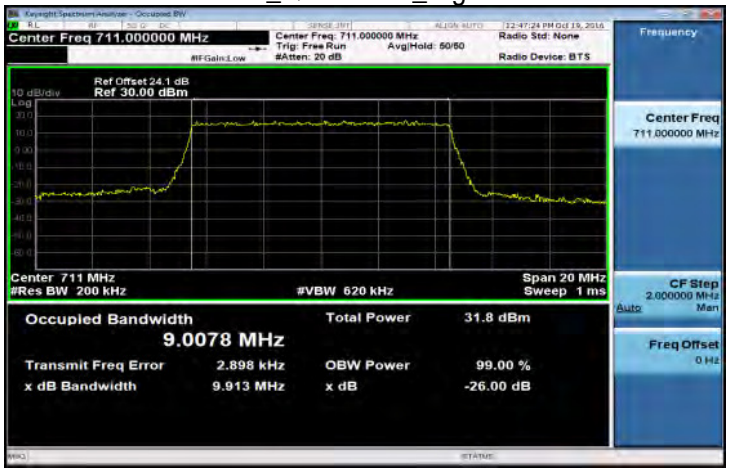
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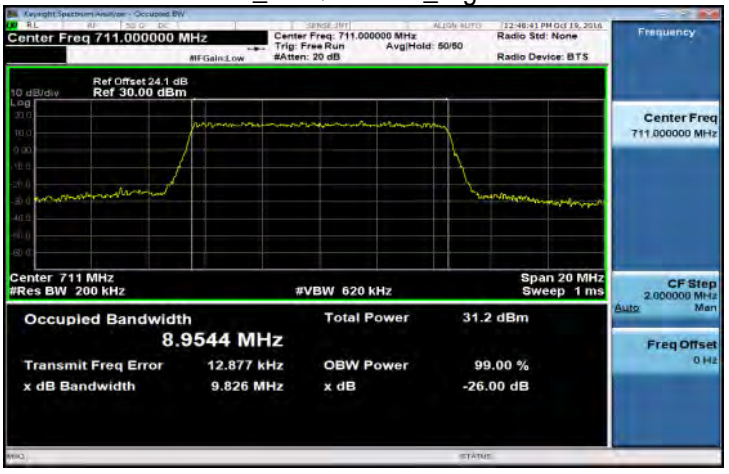
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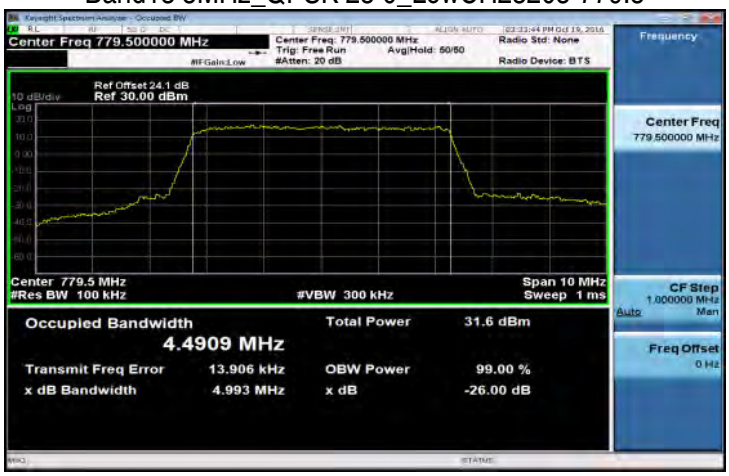


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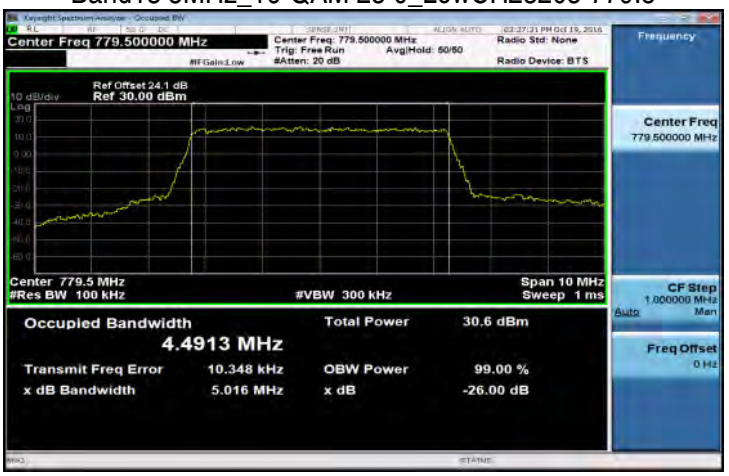


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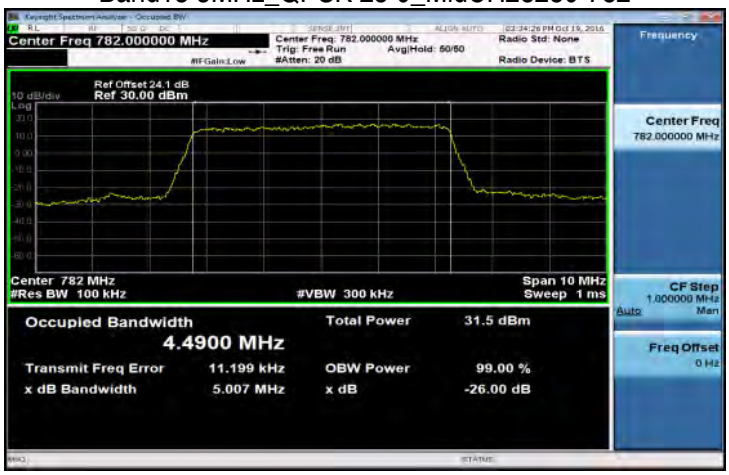
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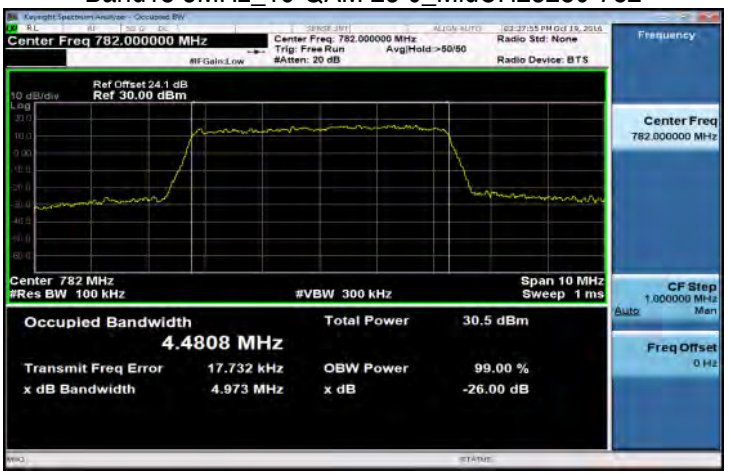
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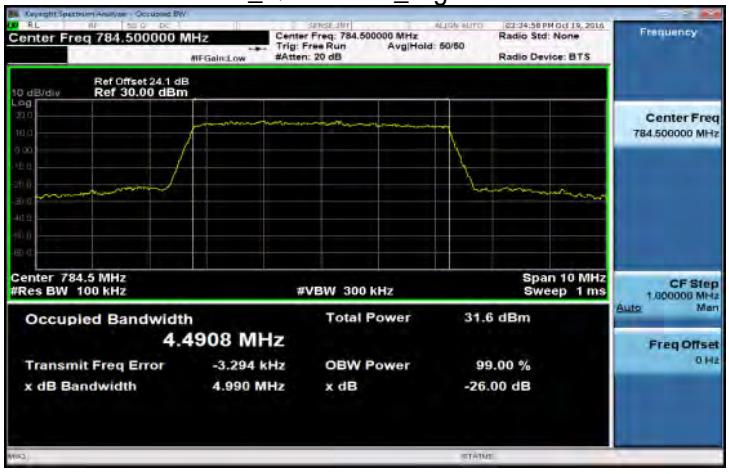
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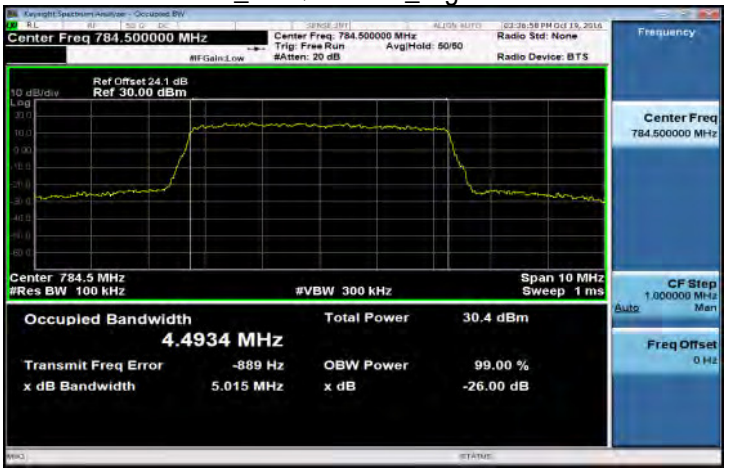
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Band13 5MHz_QPSK 25 0_HighCH23255-784.5

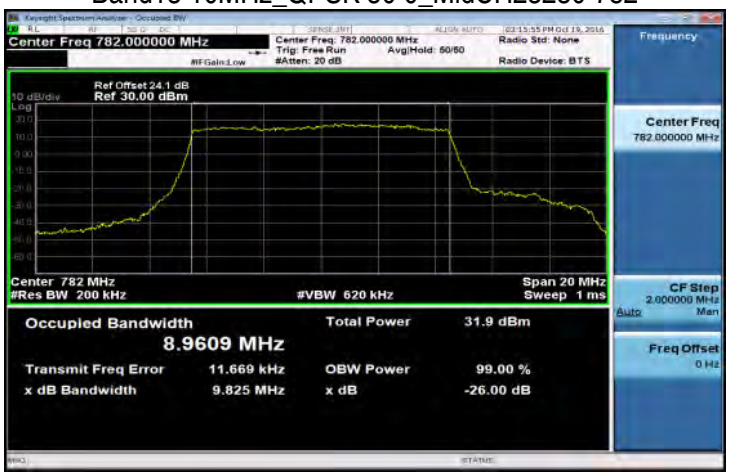


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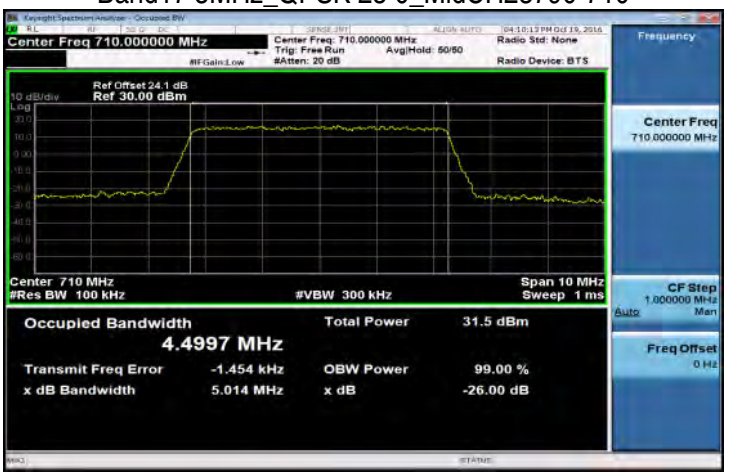


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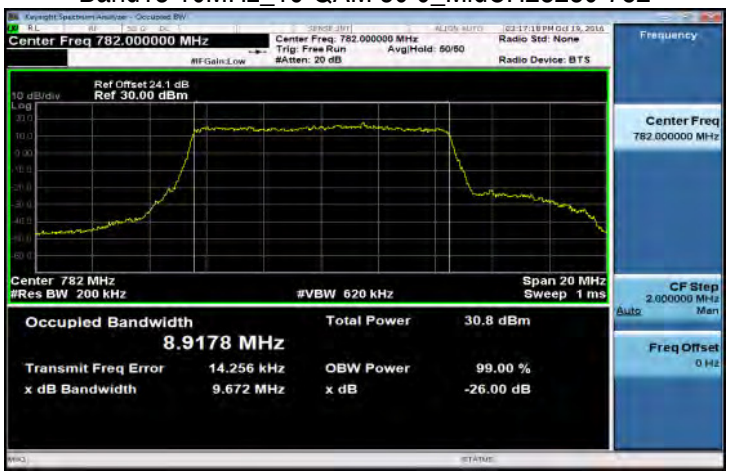
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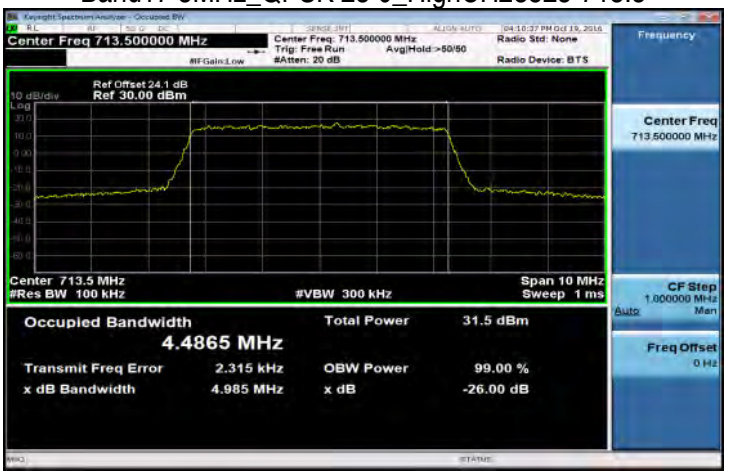
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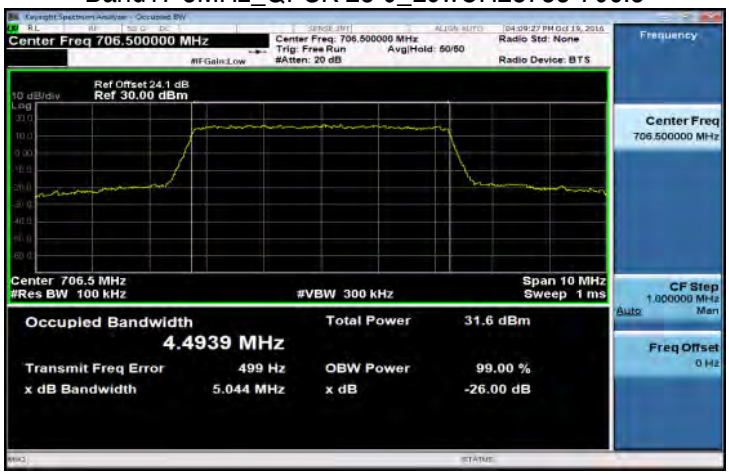
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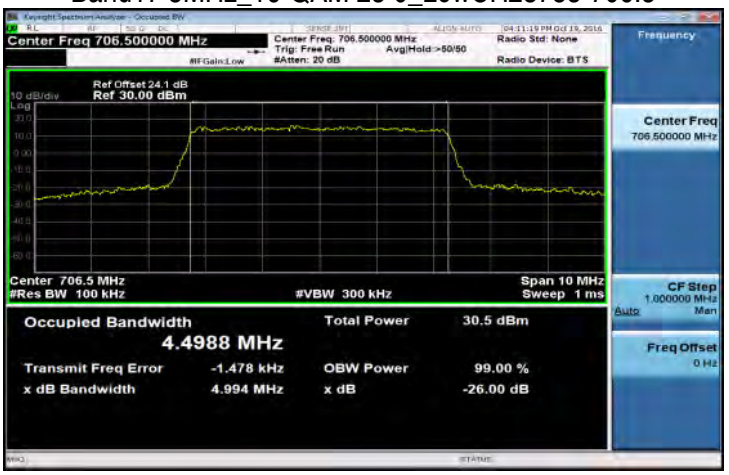
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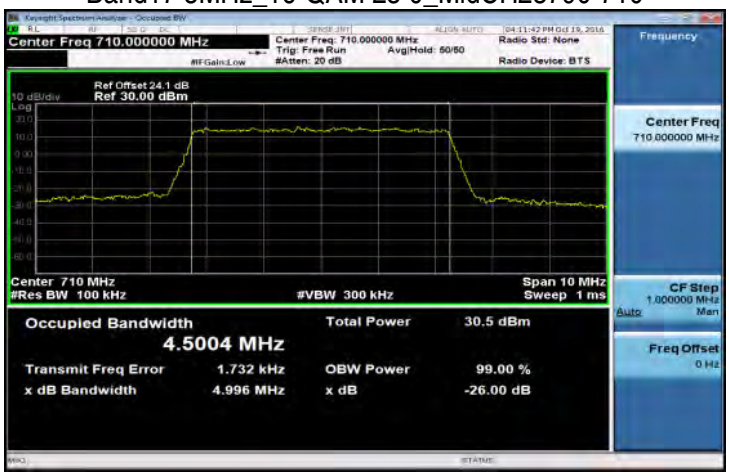


Band17 5MHz_16-QAM 25 0_LowCH23755-706.5

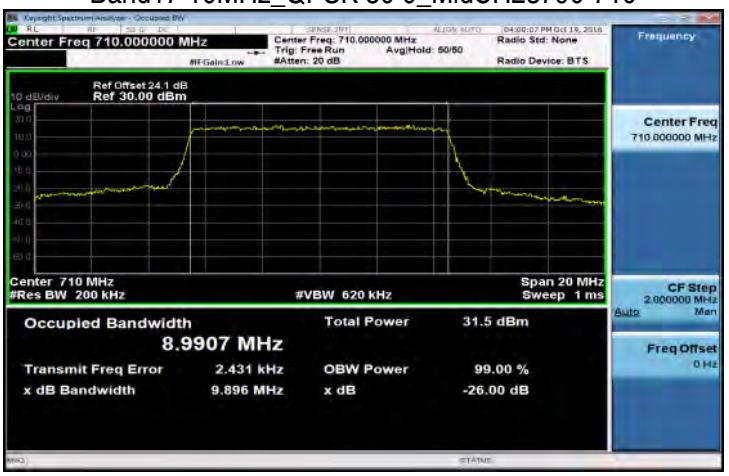


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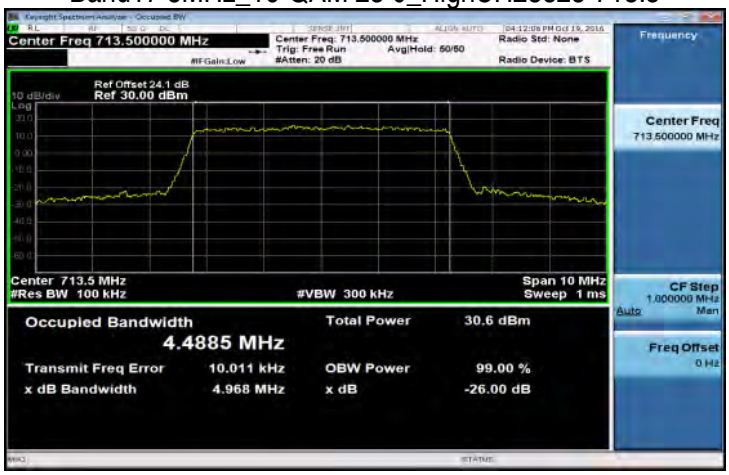
Band17 5MHz_16-QAM 25 0_MidCH23790-710



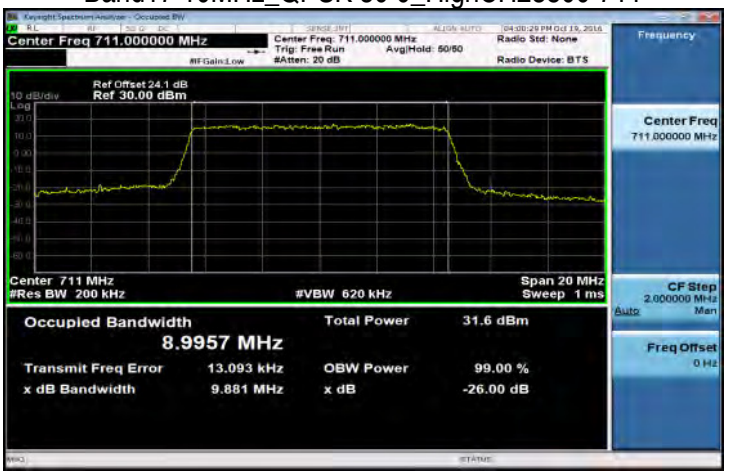
Band17 10MHz_QPSK 50 0_MidCH23790-710



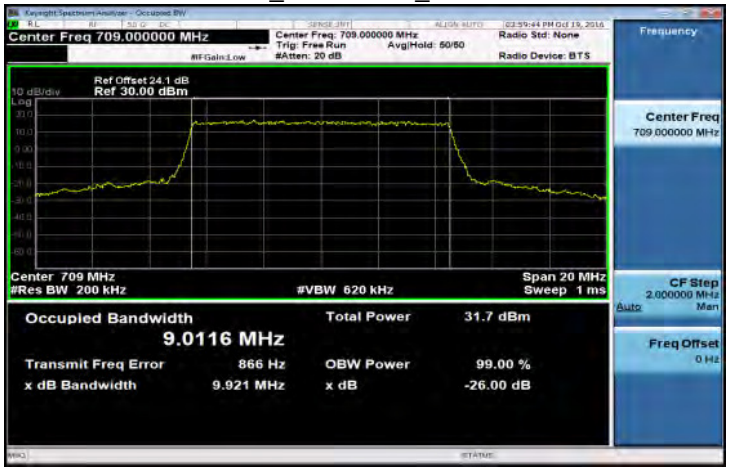
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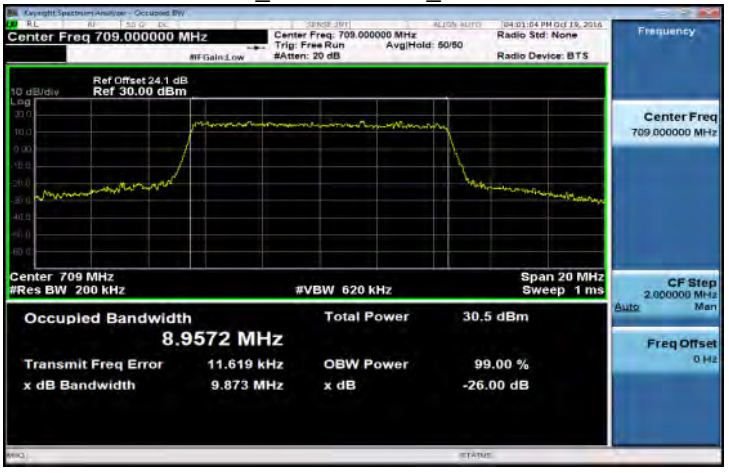
Band17 10MHz_QPSK 50 0_HighCH23800-711



Band17 10MHz_QPSK 50 0_LowCH23780-709

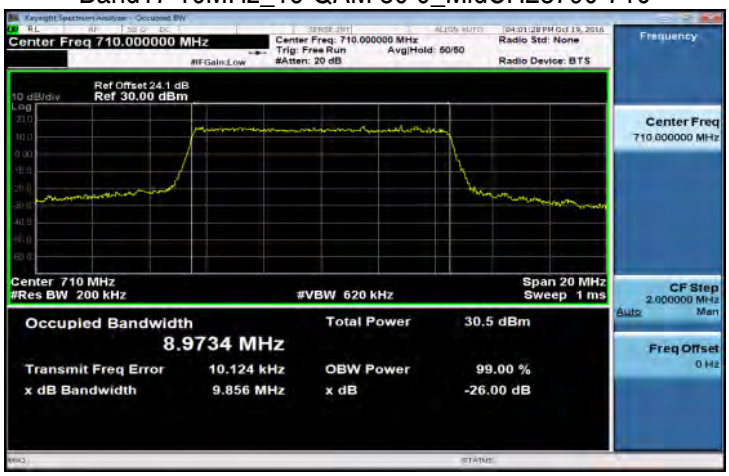


Band17 10MHz_16-QAM 50 0_LowCH23780-709

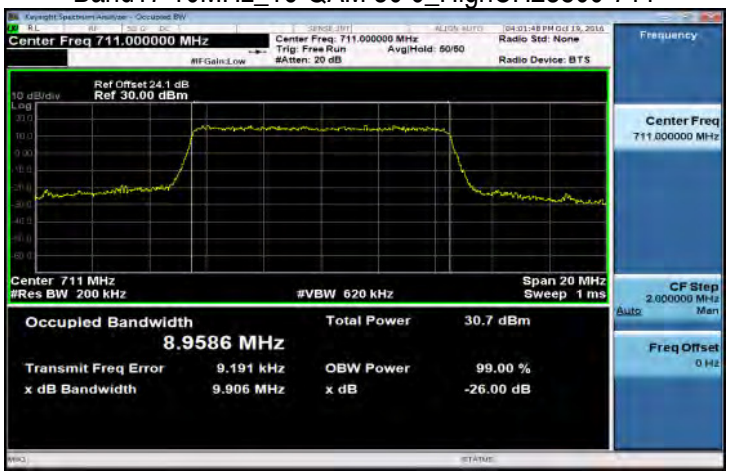


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Band17 10MHz_16-QAM 50 0_MidCH23790-710



Band17 10MHz_16-QAM 50 0_HighCH23800-711



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9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §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 +10log(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.

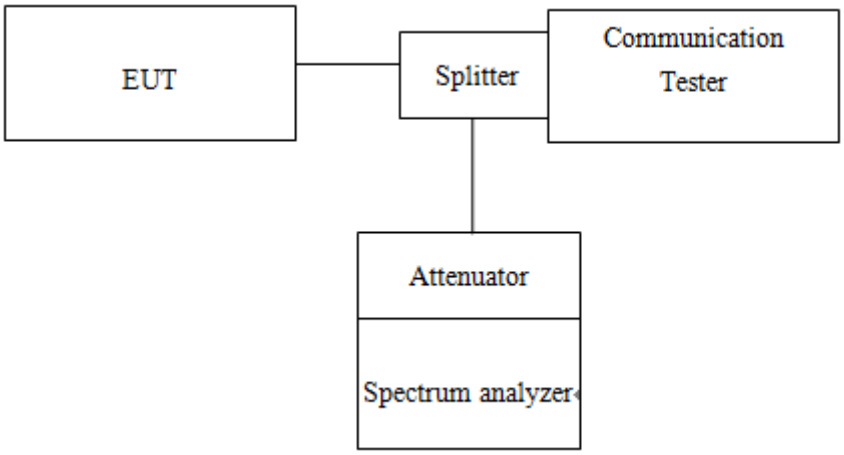
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FCC §27.53(m) (4) (6)

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 that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.

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.

9.2. Test SET-UP



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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 ≥ 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.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016

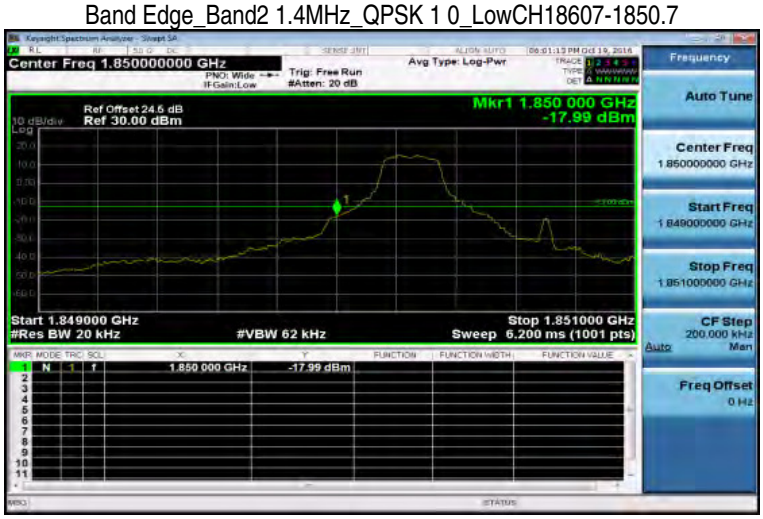
9.5. Measurement Result:

Refer to next pages.

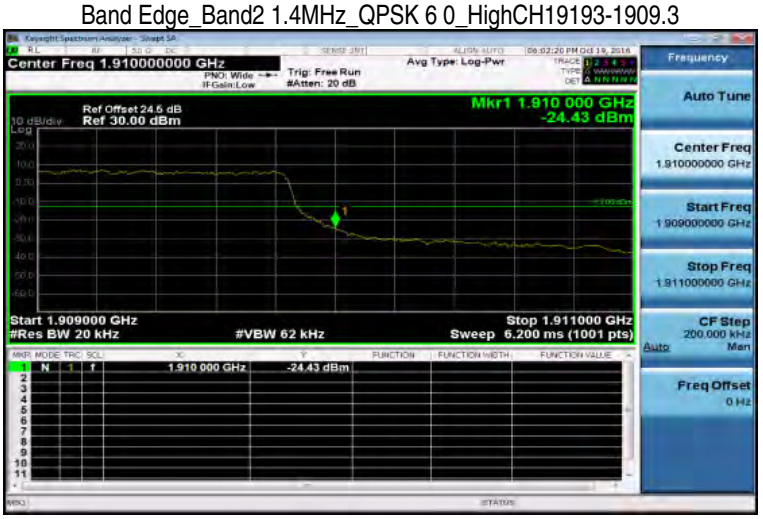
NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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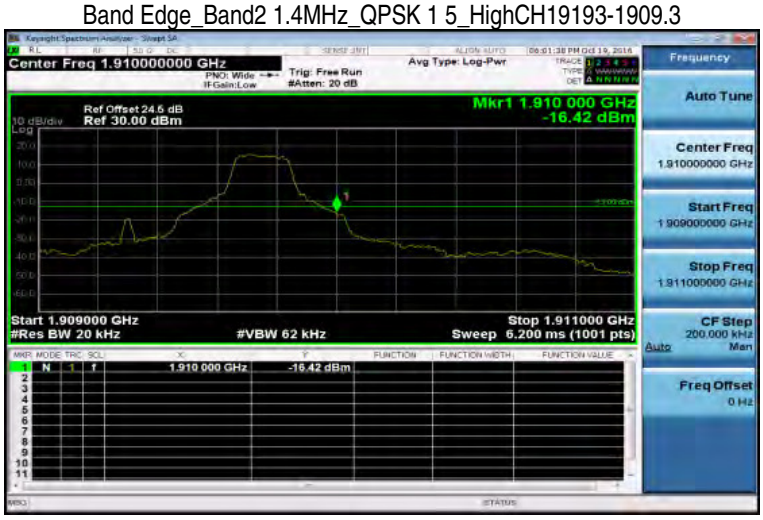
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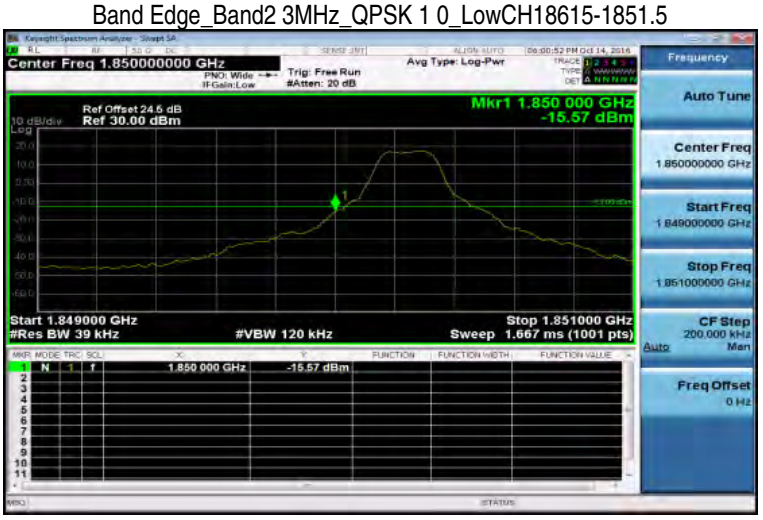
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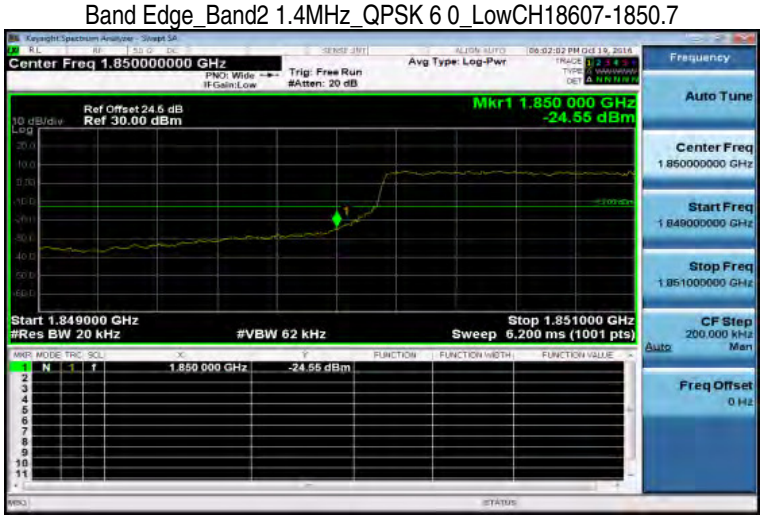
Band Edge_Band2 1.4MHz_QPSK 1 5_HighCH19193-1909.3



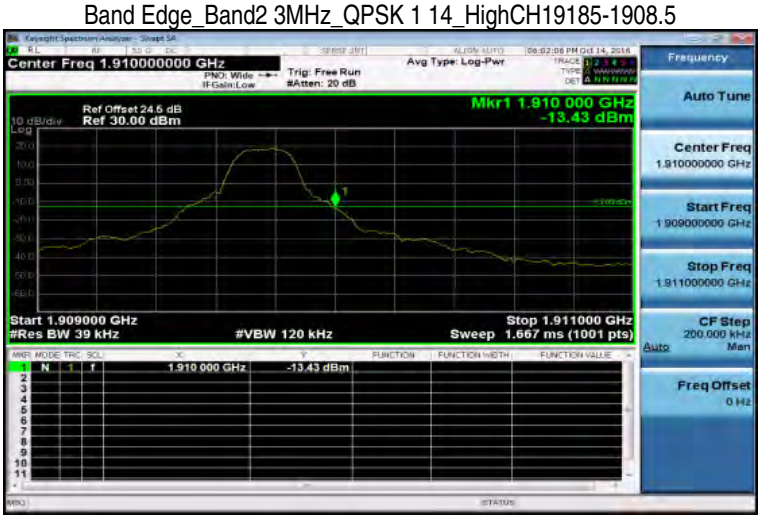
Band Edge_Band2 3MHz_QPSK 1 0_LowCH18615-1851.5



Band Edge_Band2 1.4MHz_QPSK 6 0_LowCH18607-1850.7

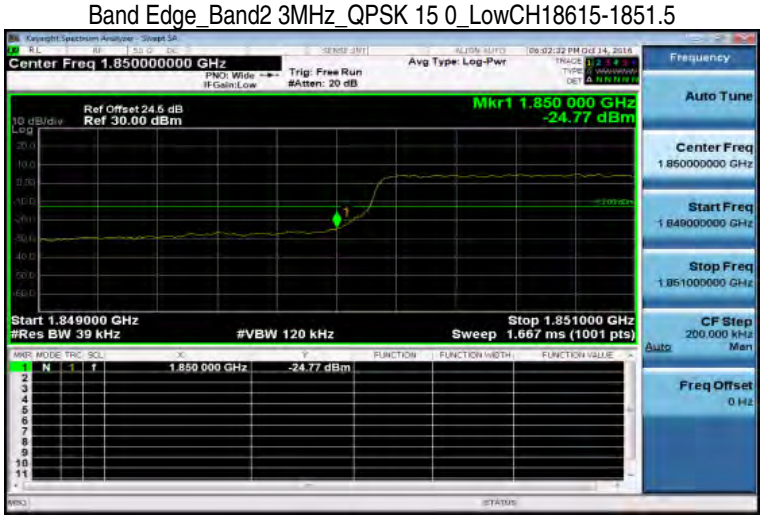


Band Edge_Band2 3MHz_QPSK 1 14_HighCH19185-1908.5

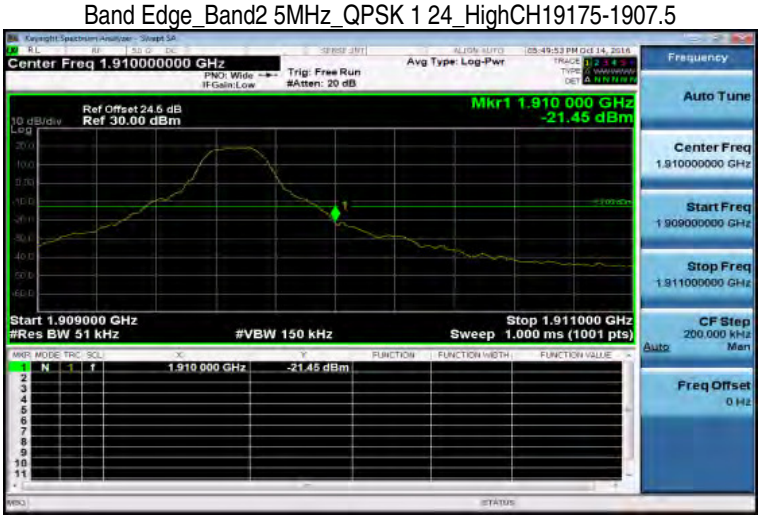


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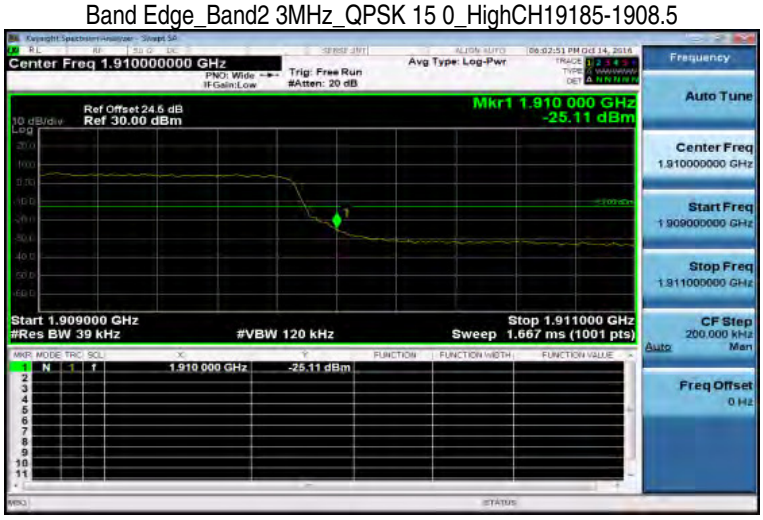
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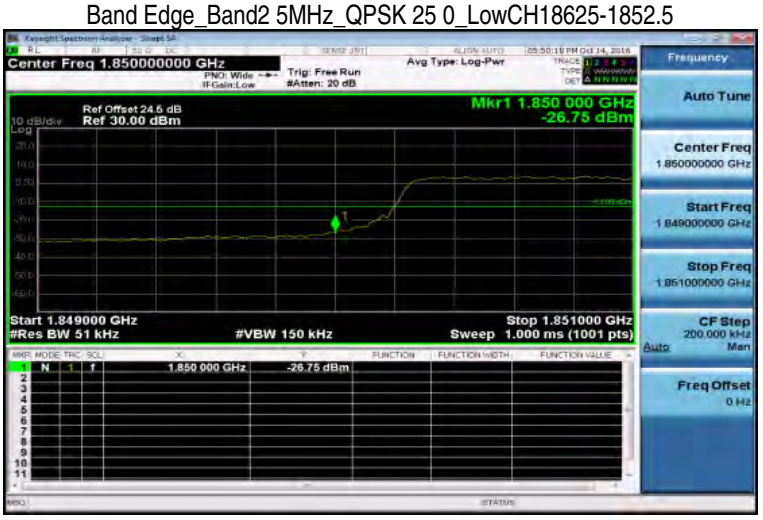
Band Edge_Band2 5MHz_QPSK 1 24_HighCH19175-1907.5



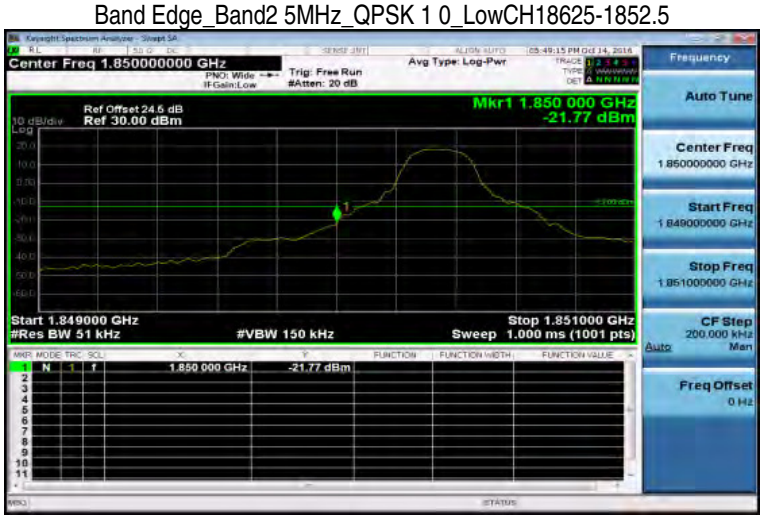
Band Edge_Band2 3MHz_QPSK 15 0_HighCH19185-1908.5



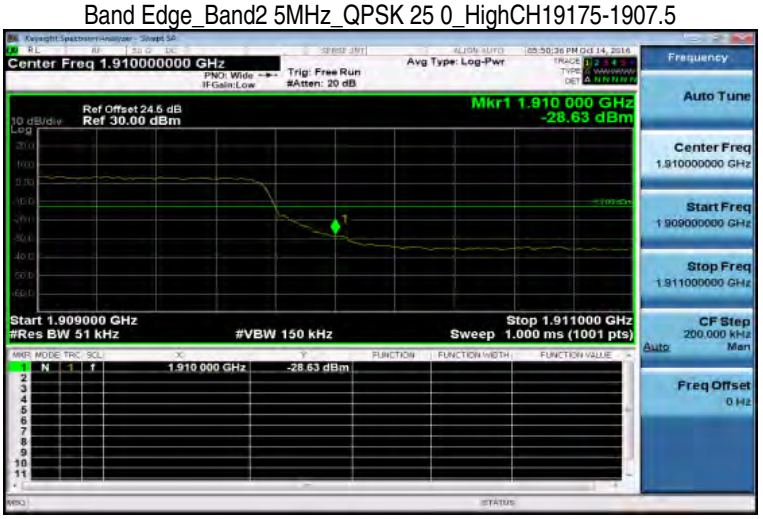
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Band Edge_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5

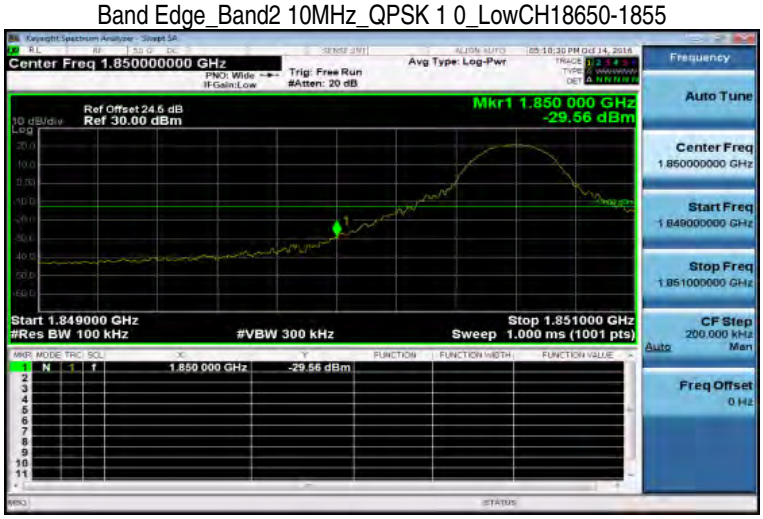


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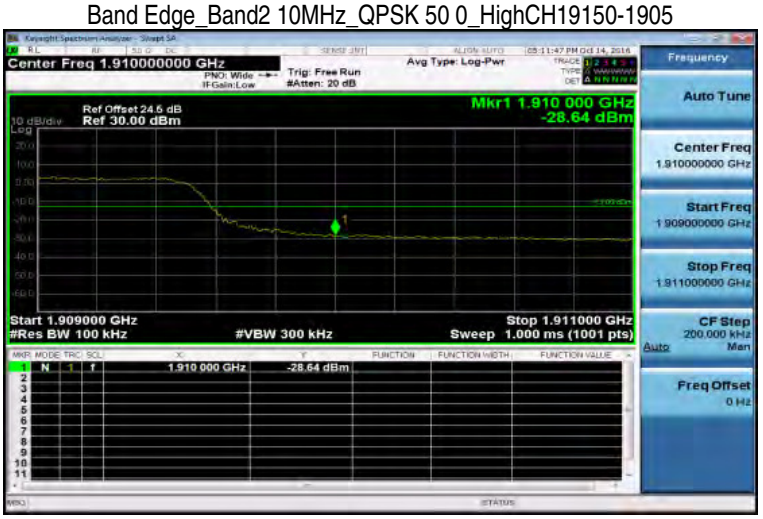


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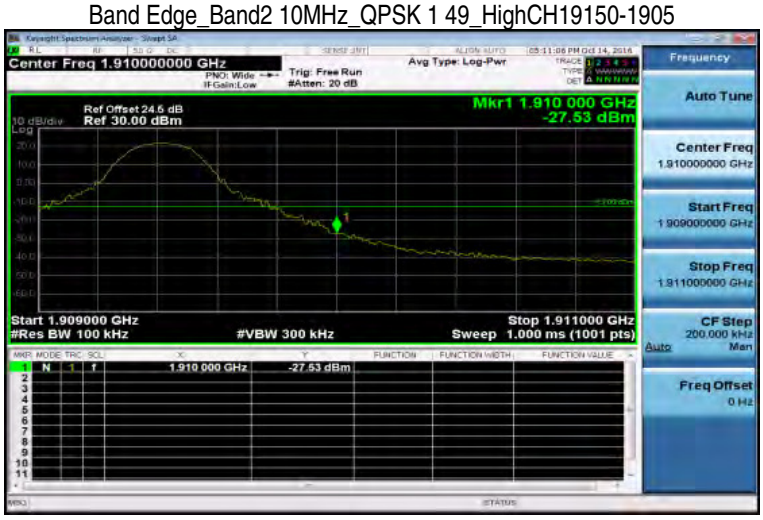
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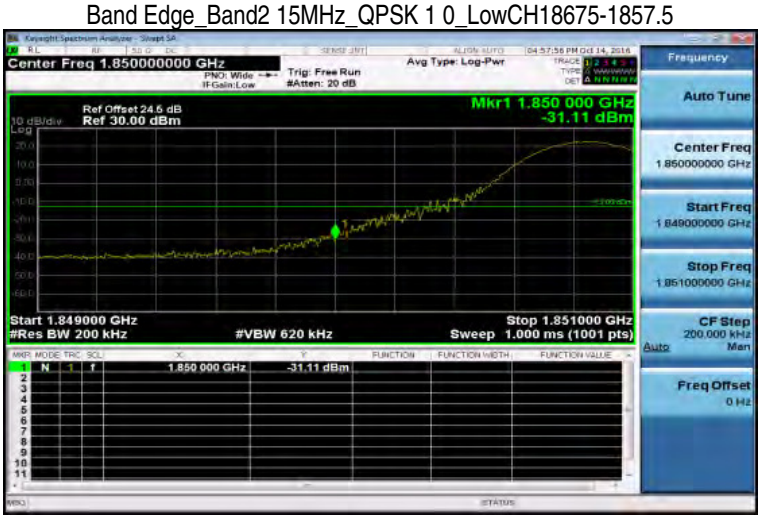
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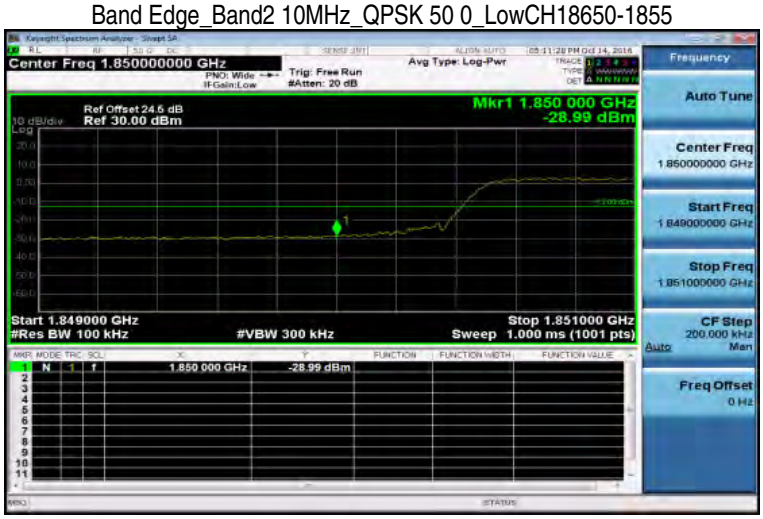
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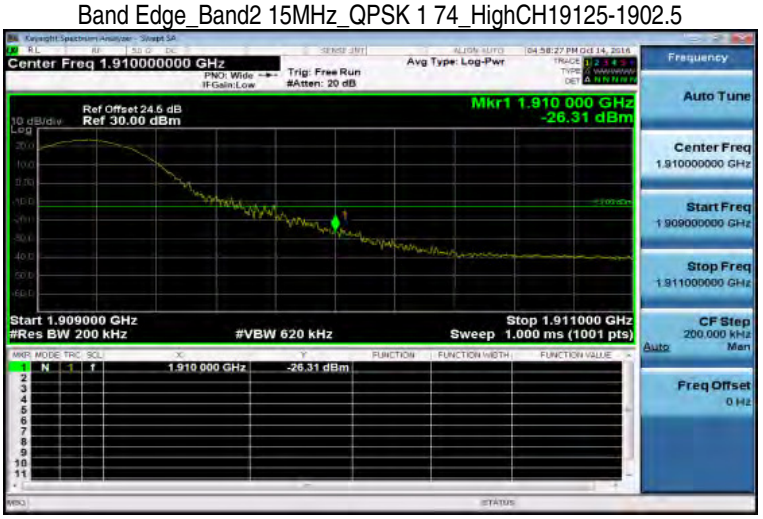
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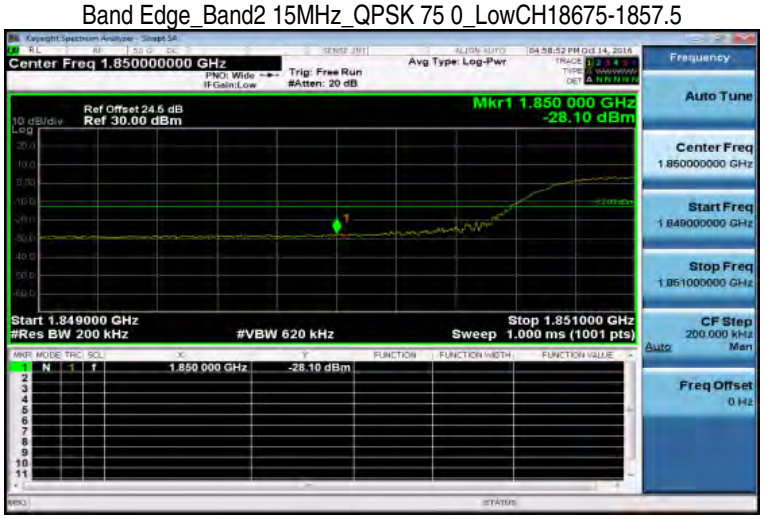


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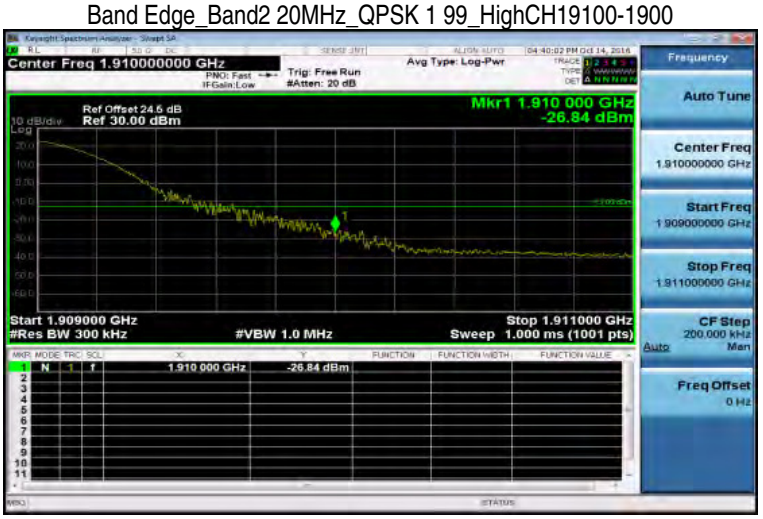


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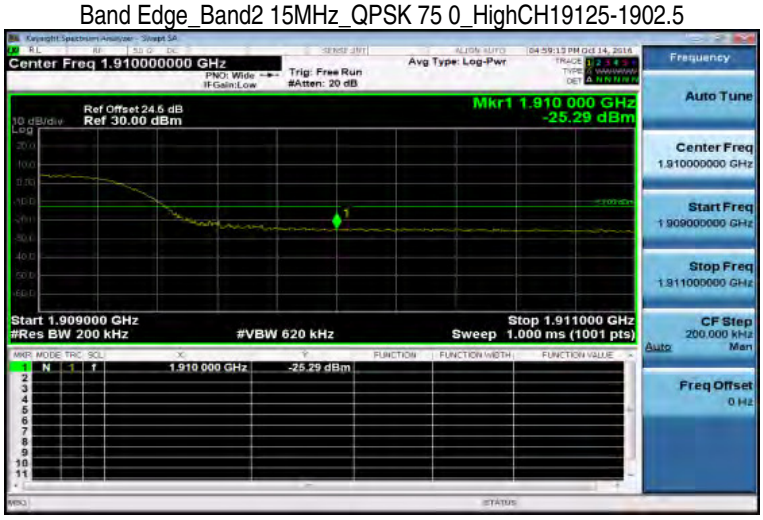
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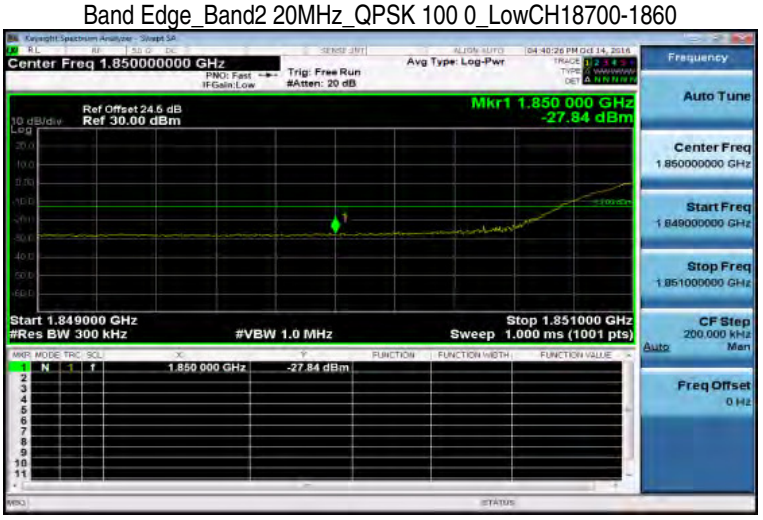
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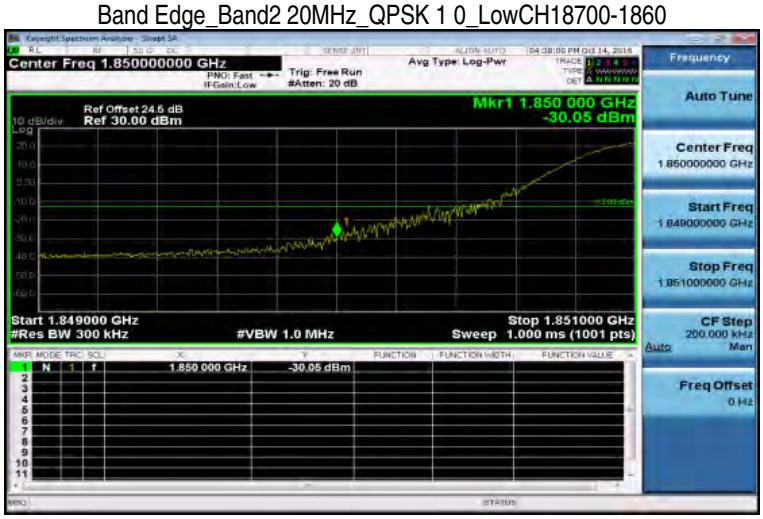
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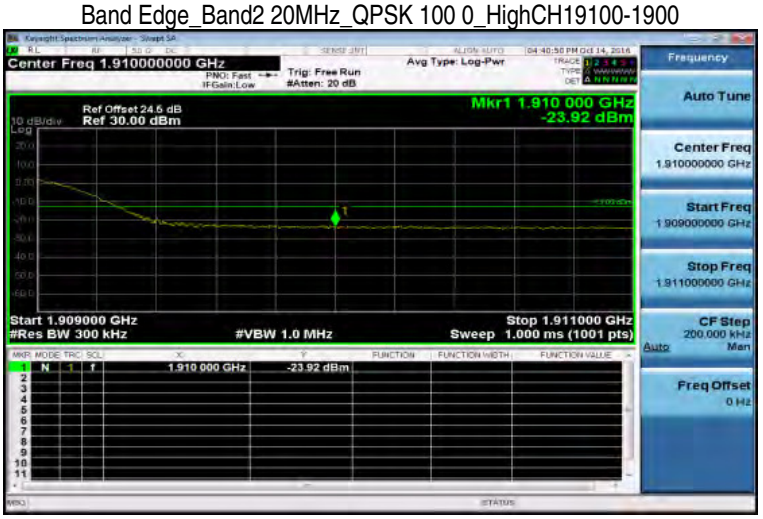
Band Edge_Band2 20MHz_QPSK 100 0_LowCH18700-1860



Band Edge_Band2 20MHz_QPSK 1 0_LowCH18700-1860

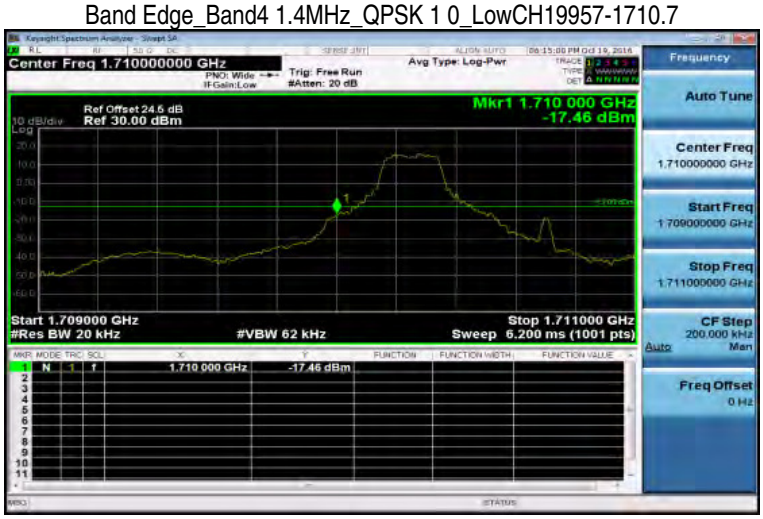


Band Edge_Band2 20MHz_QPSK 100 0_HighCH19100-1900

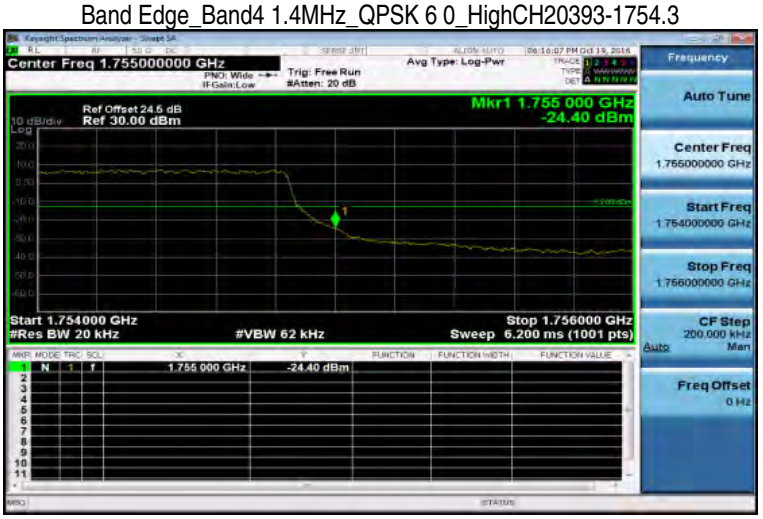


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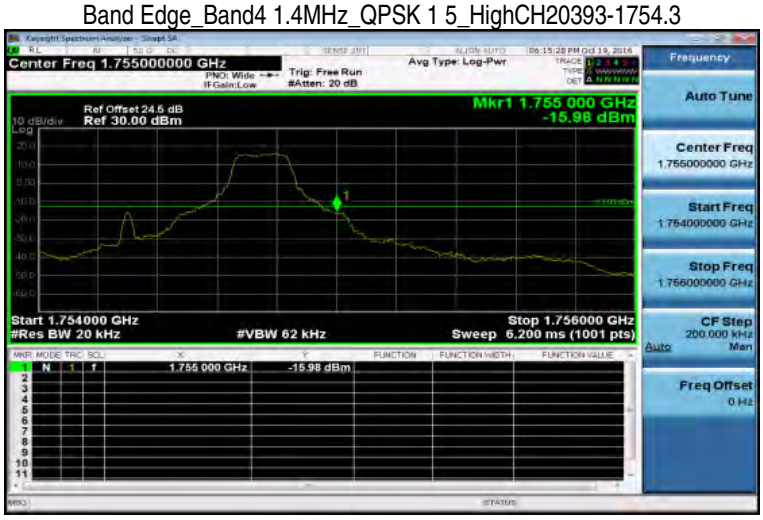
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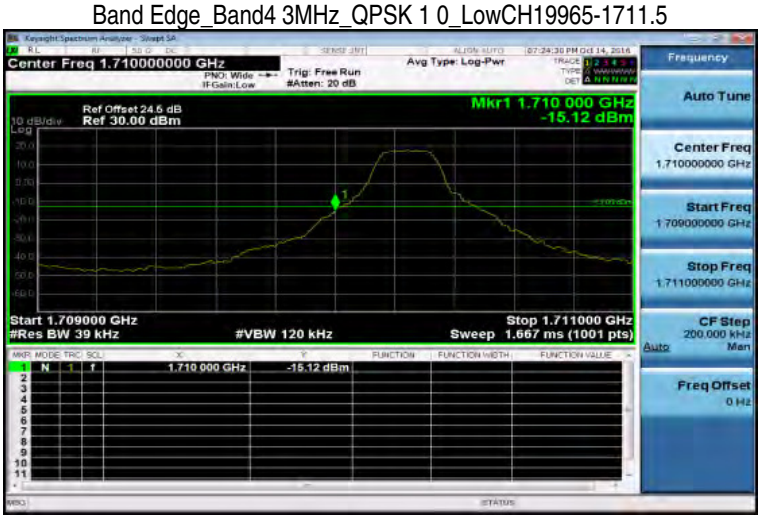
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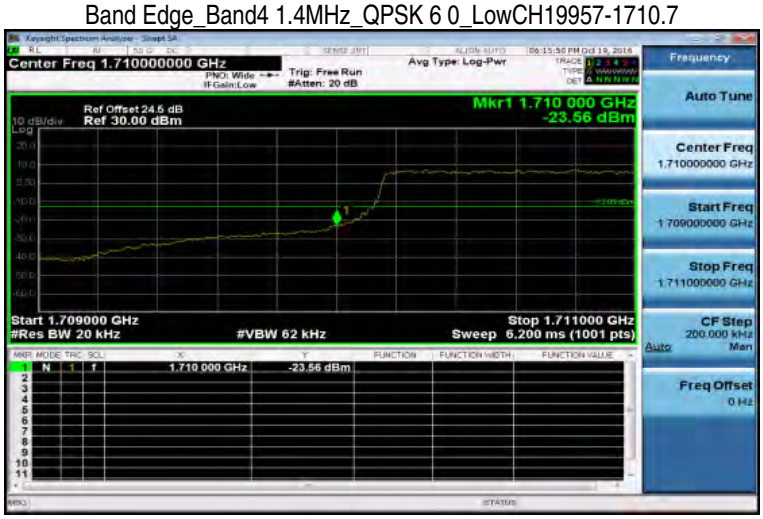
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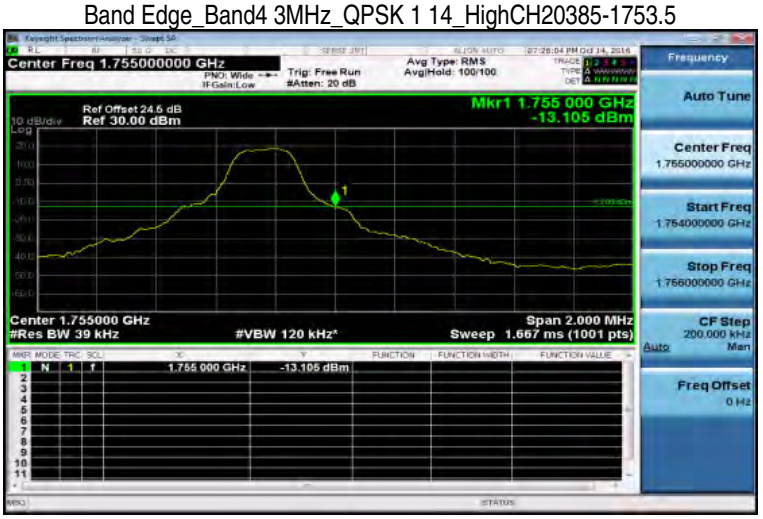
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Band Edge_Band4 1.4MHz_QPSK 6 0_LowCH19957-1710.7

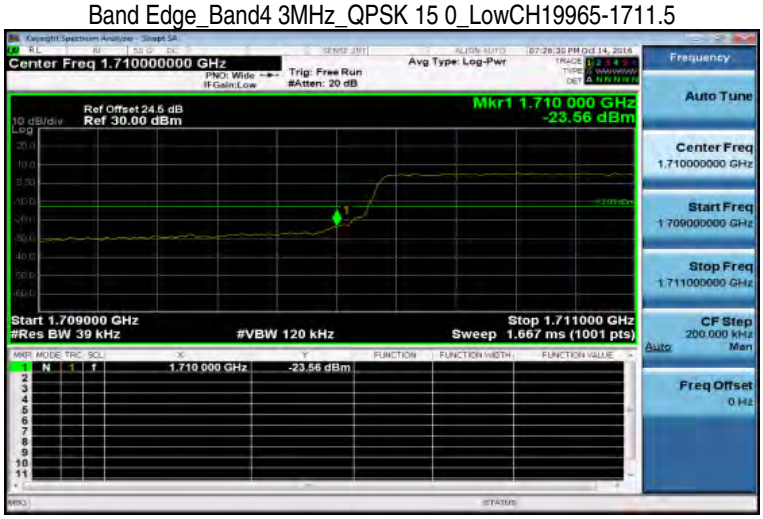


Band Edge_Band4 3MHz_QPSK 1 14_HighCH20385-1753.5

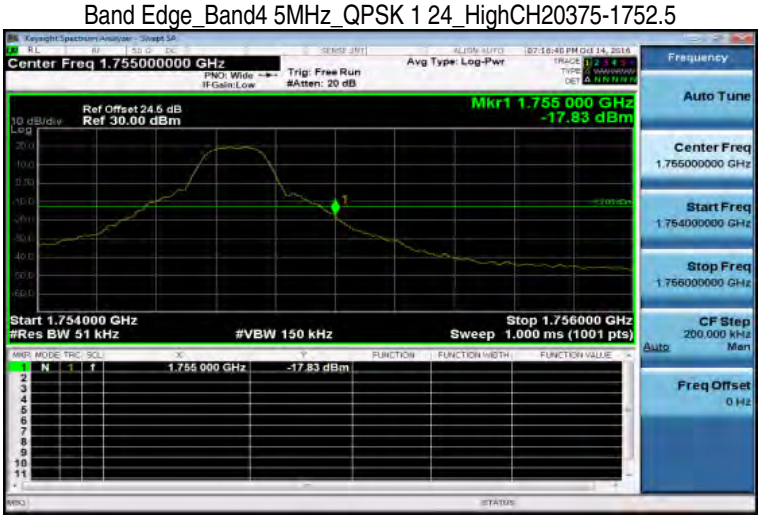


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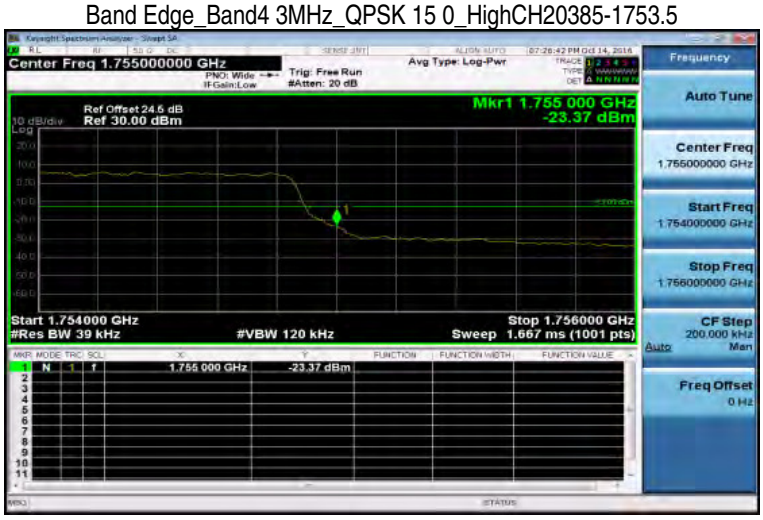
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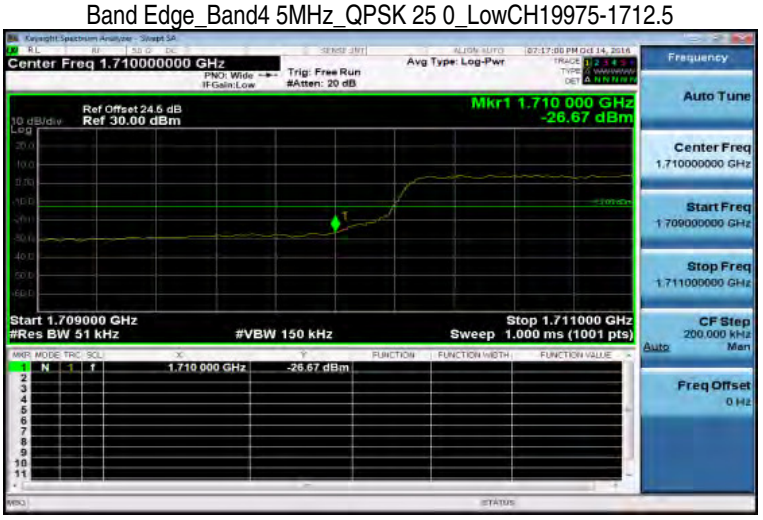
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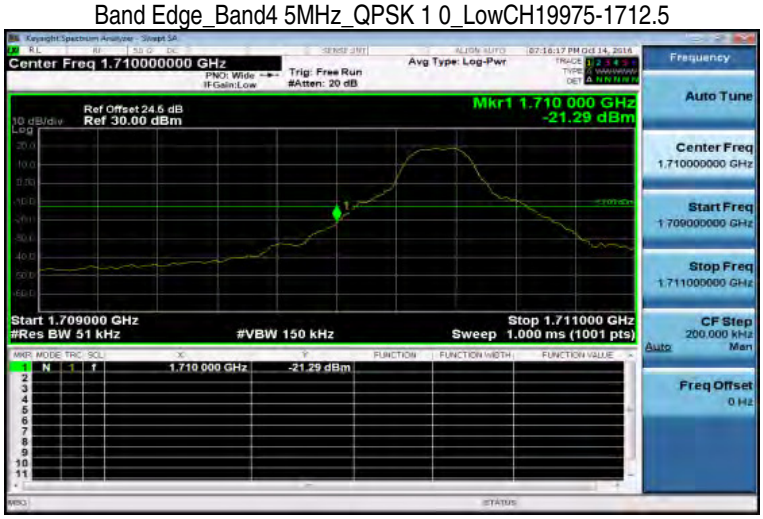
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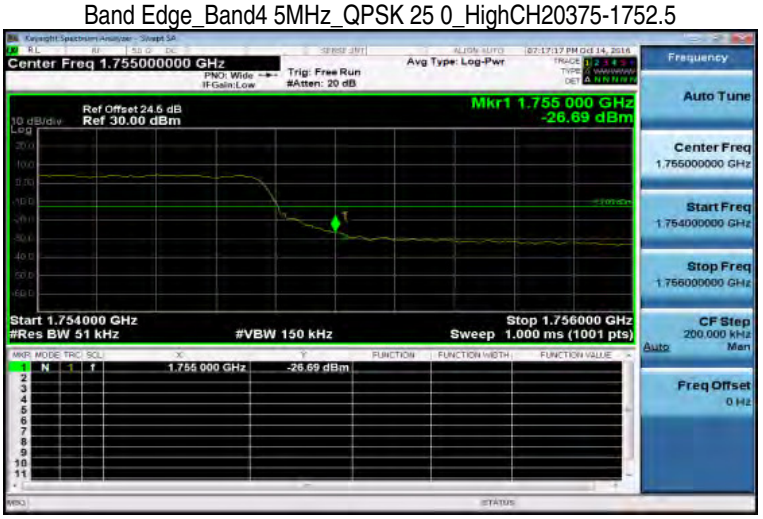
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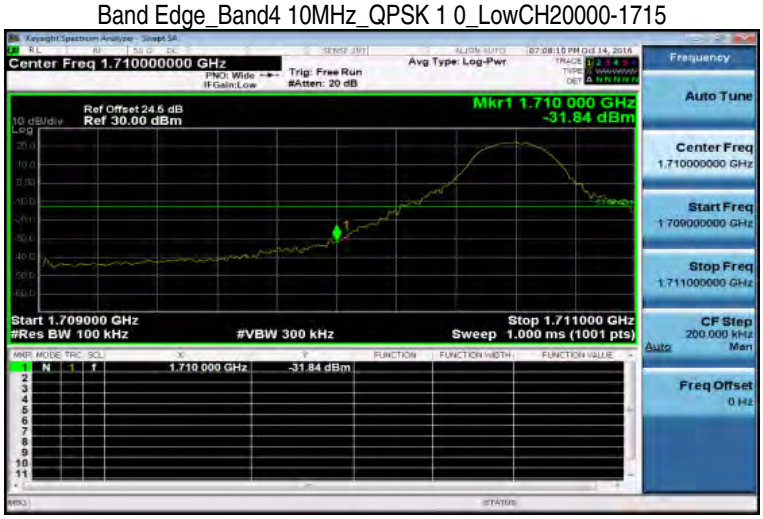


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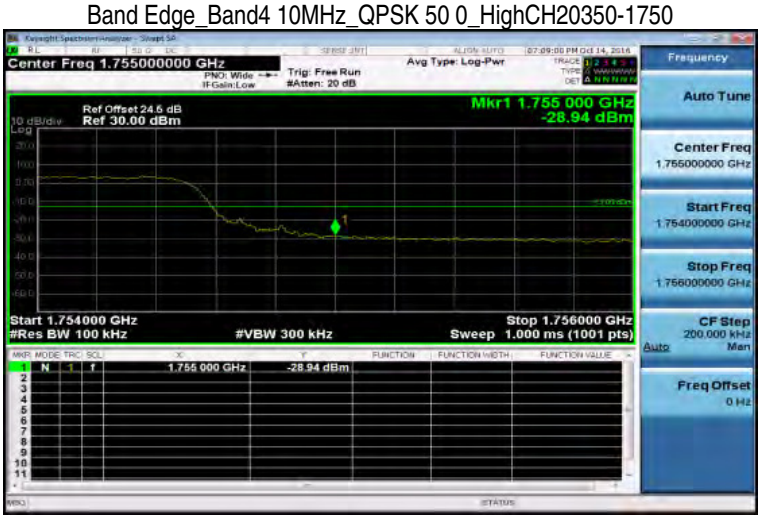


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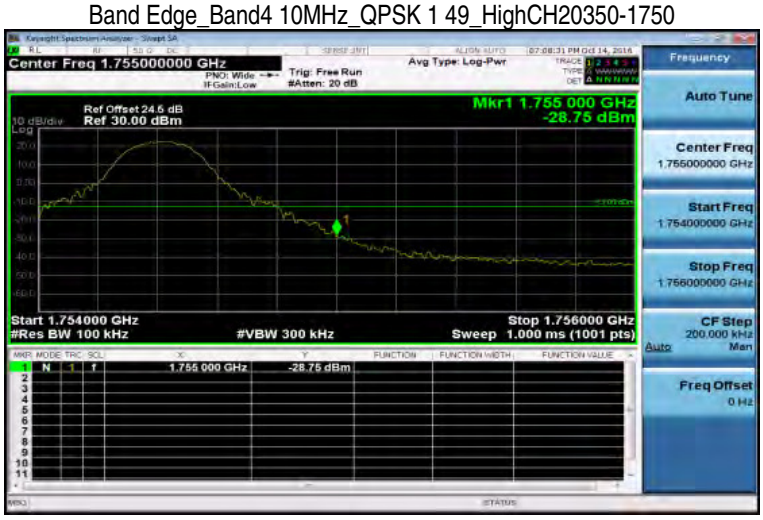
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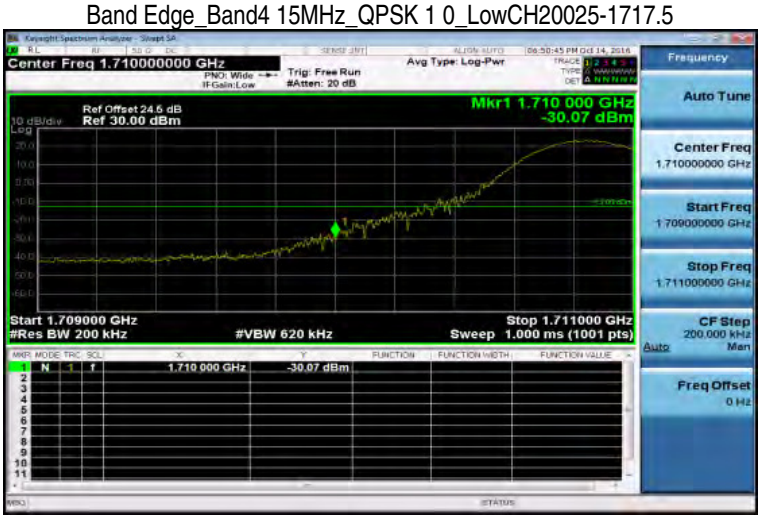
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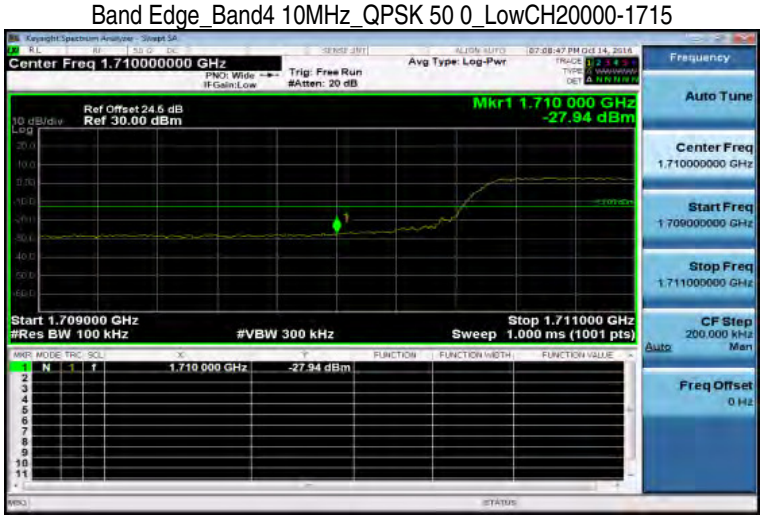
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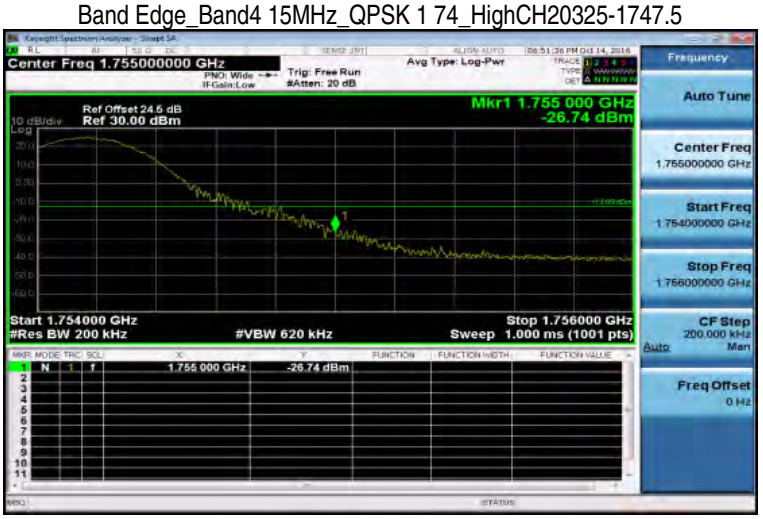
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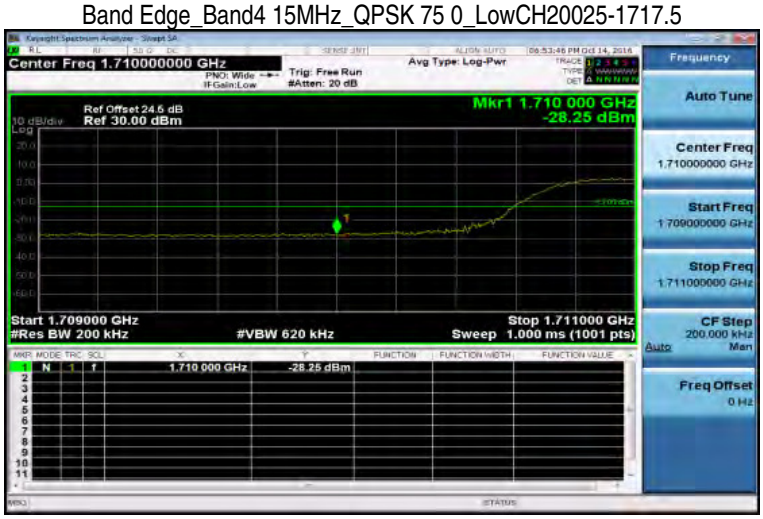


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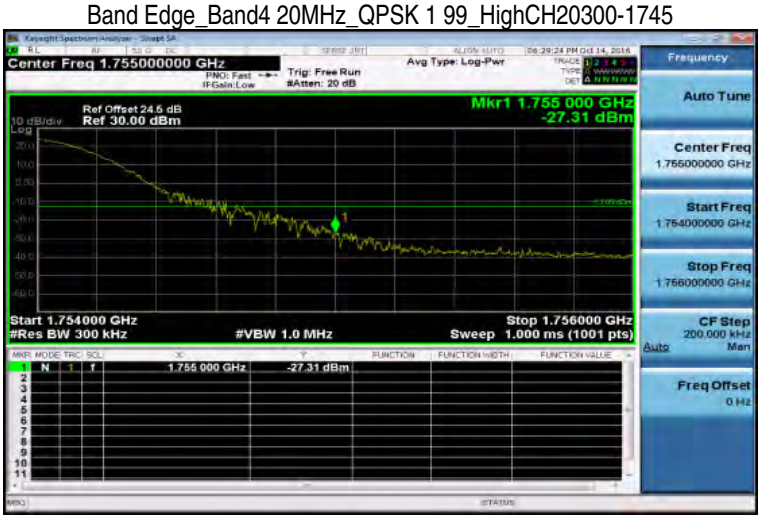


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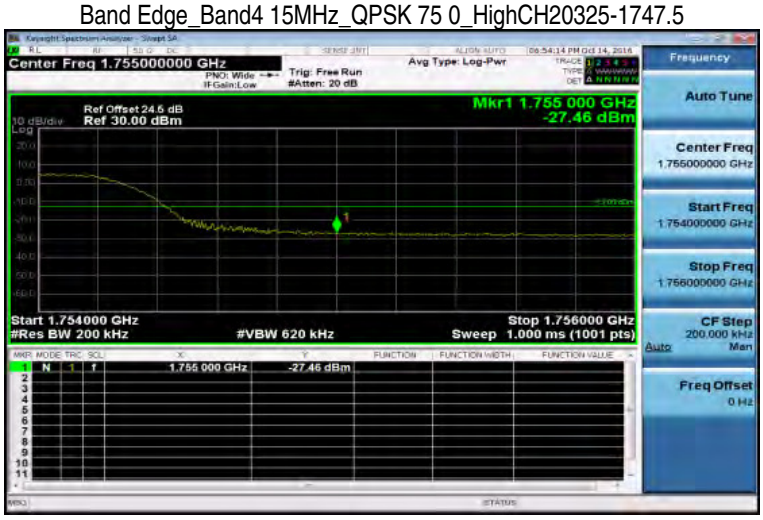
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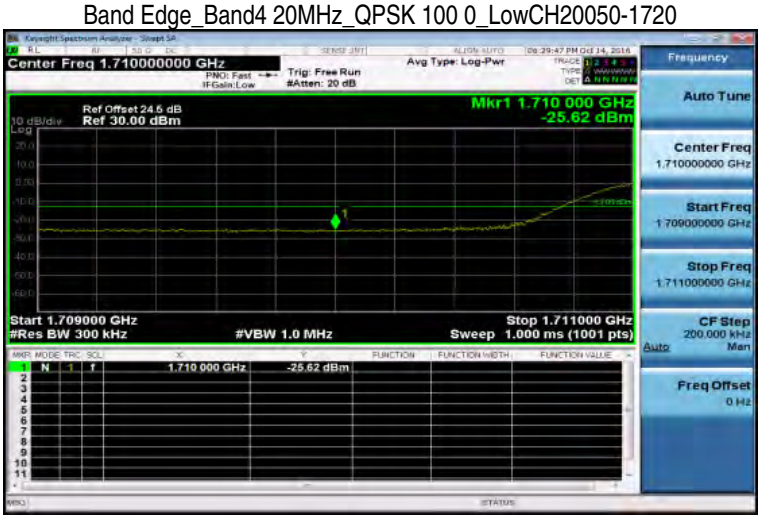
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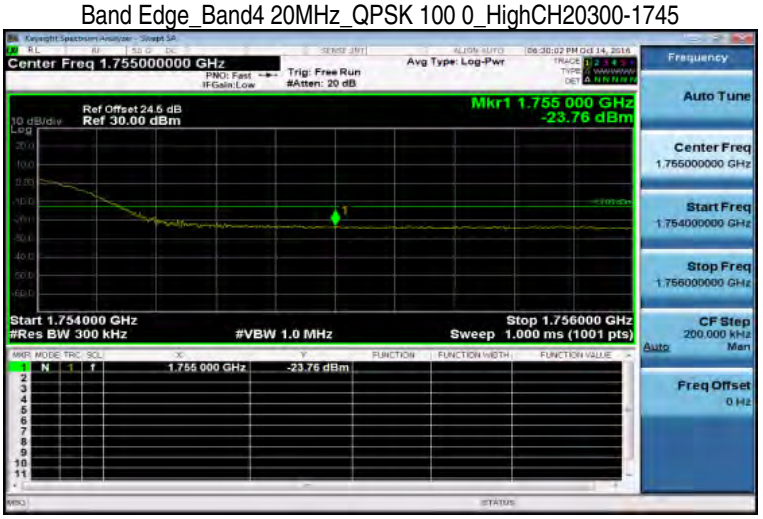
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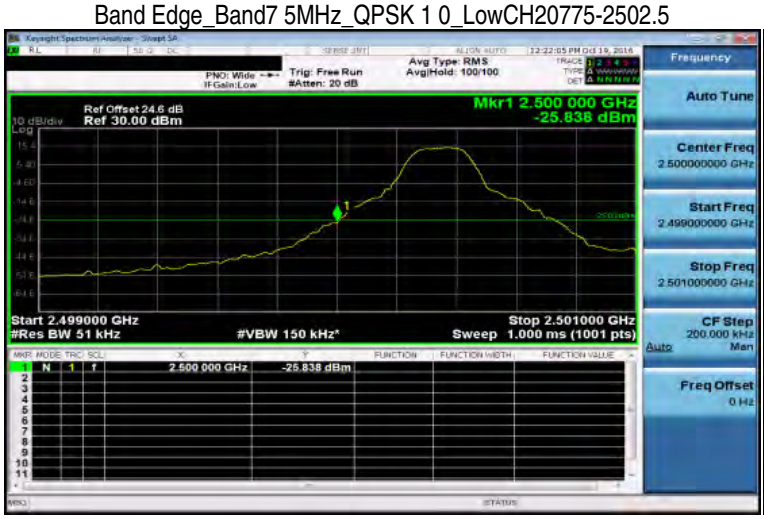


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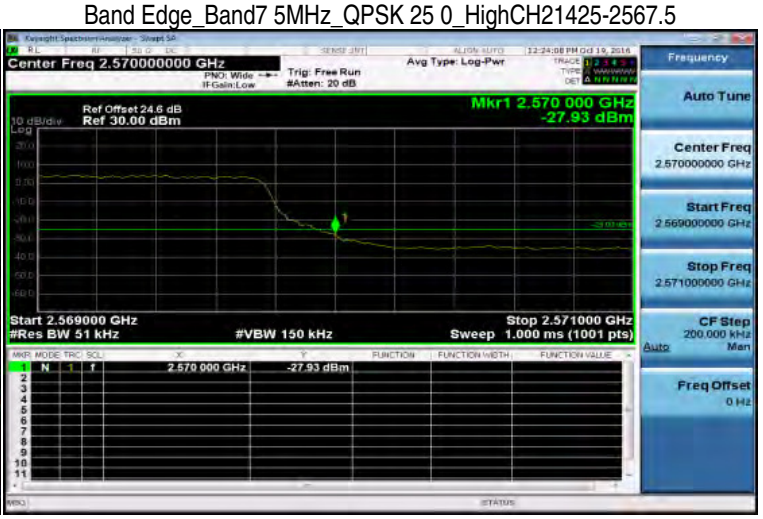


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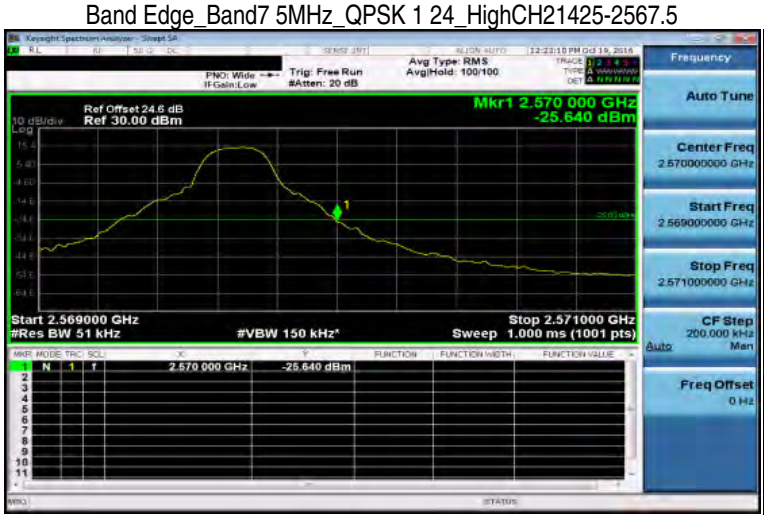
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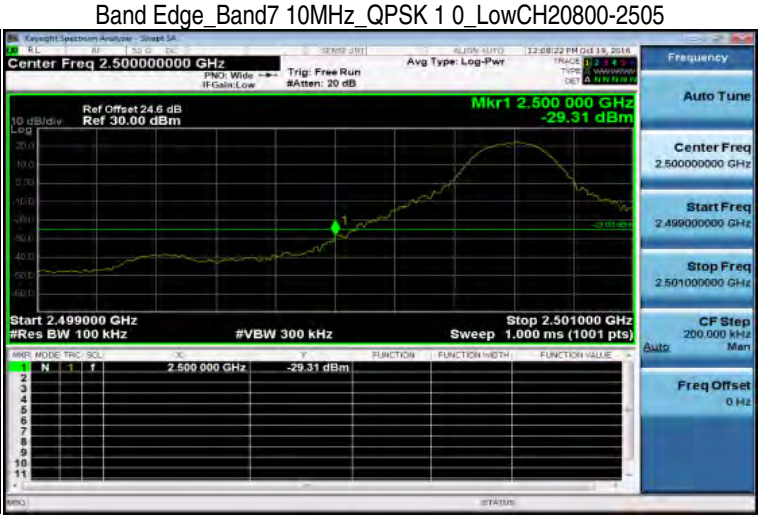
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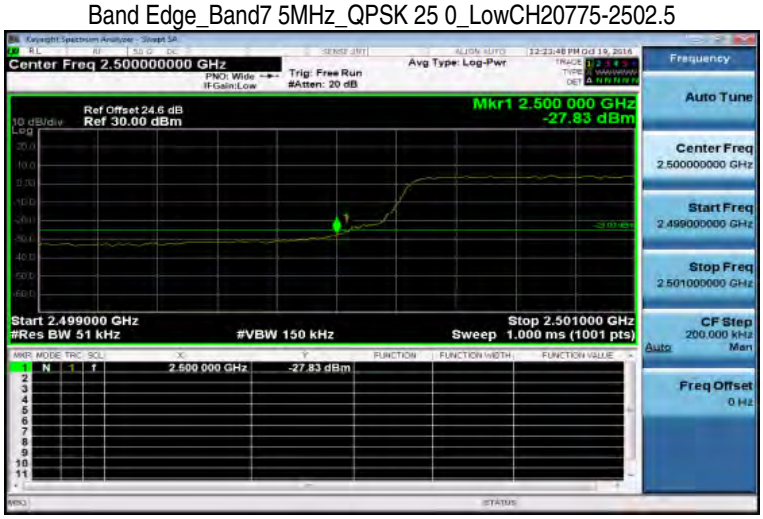
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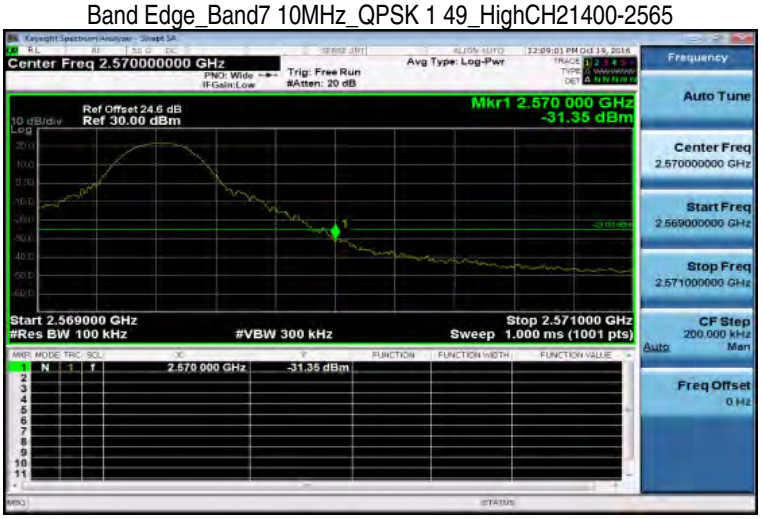
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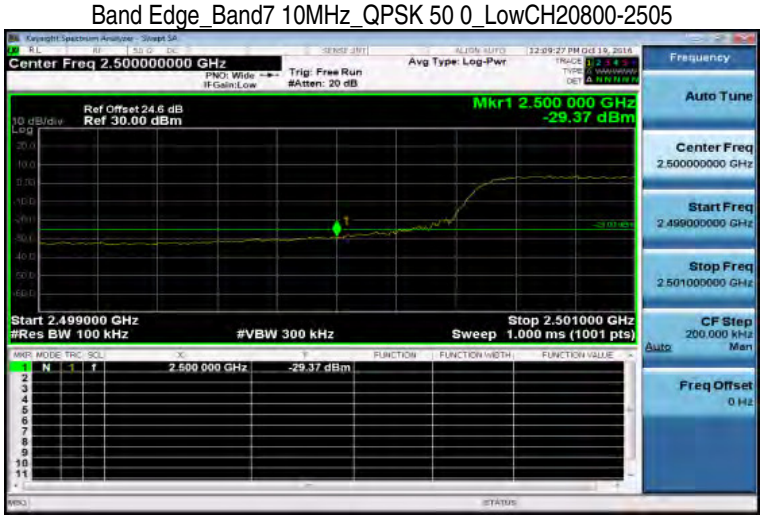


Band Edge_Band7 10MHz_QPSK 1 49_HighCH21400-2565

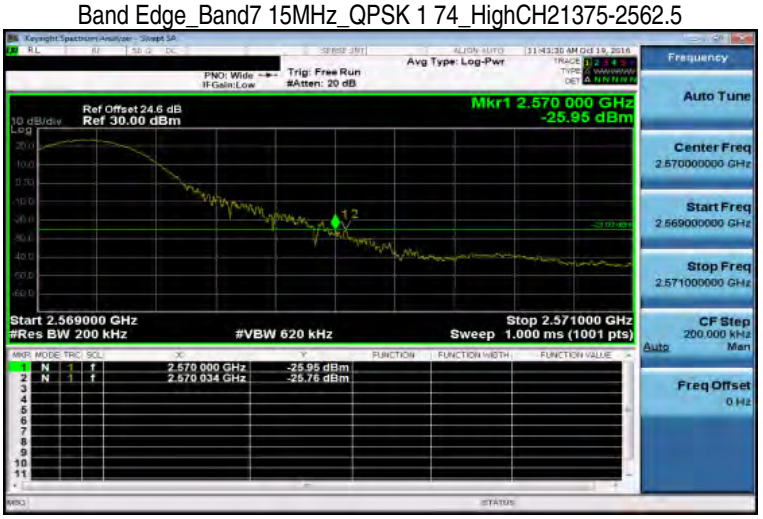


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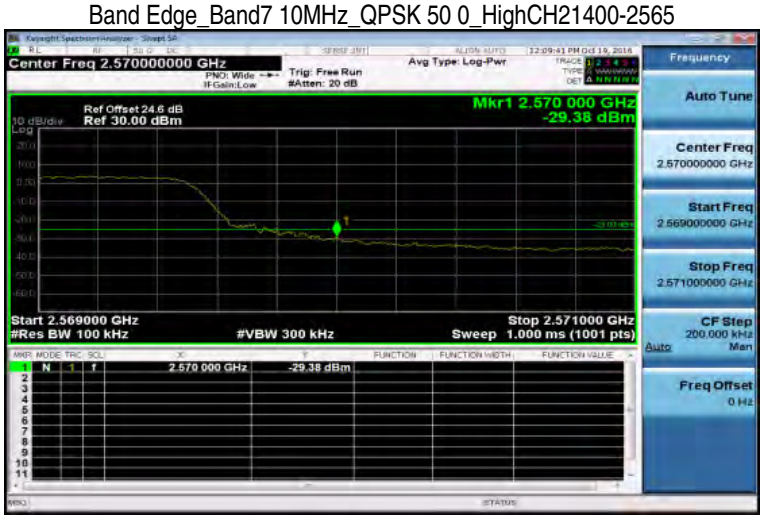
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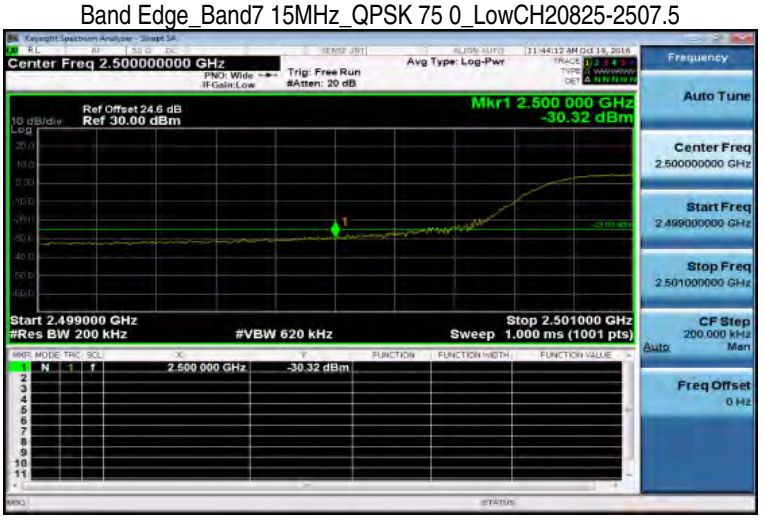
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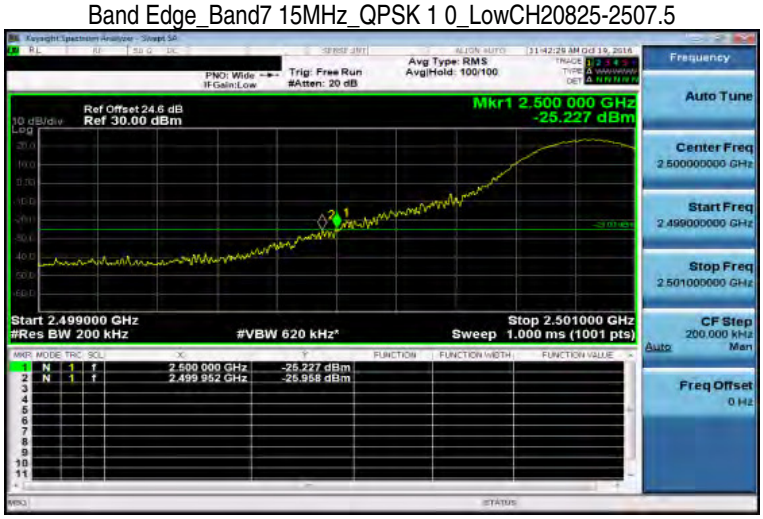
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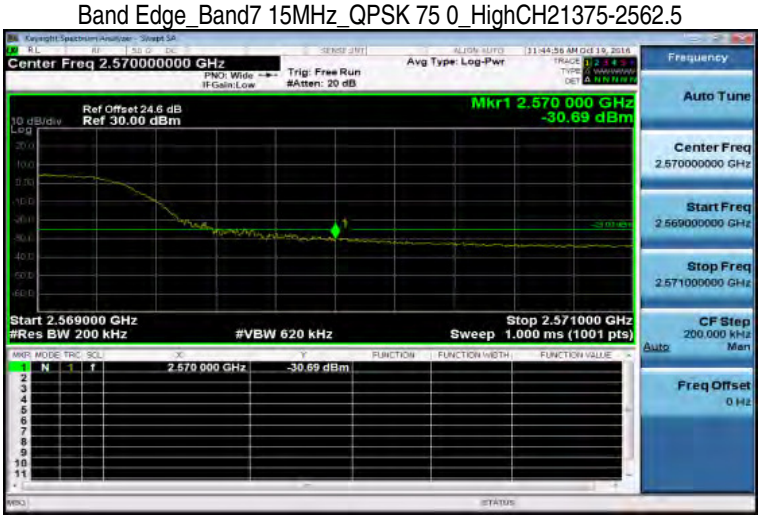
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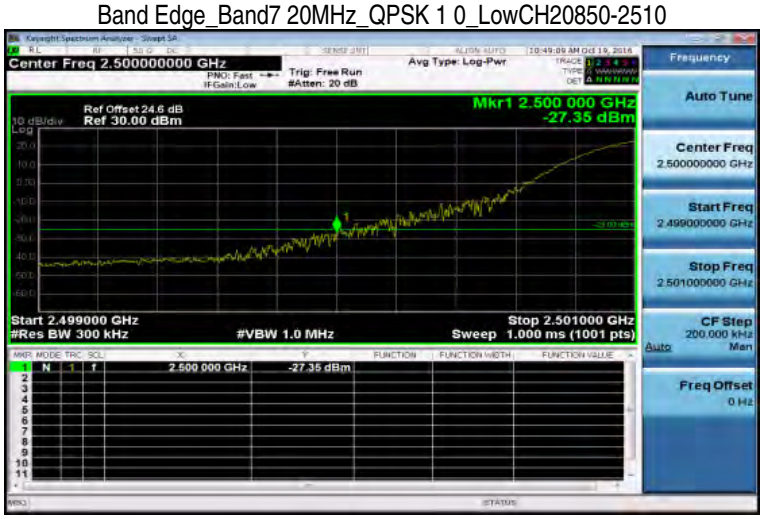


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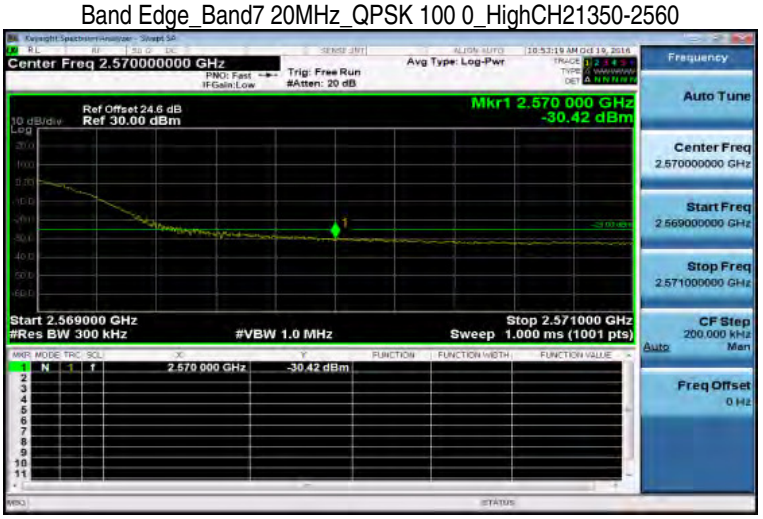


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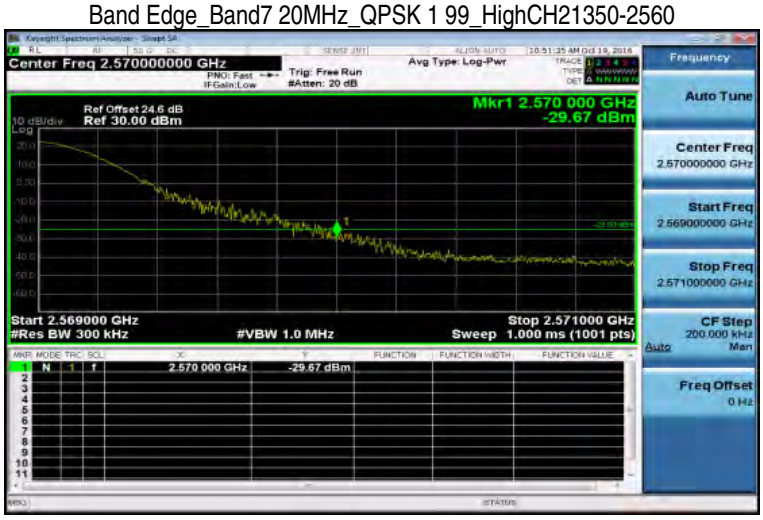
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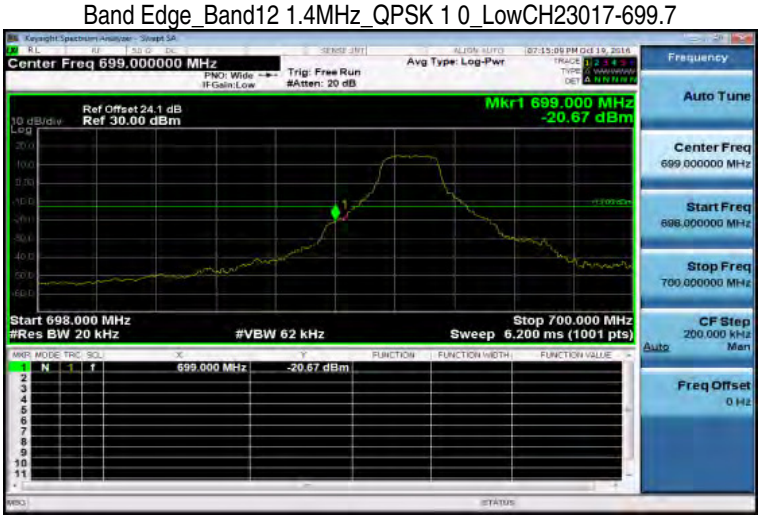
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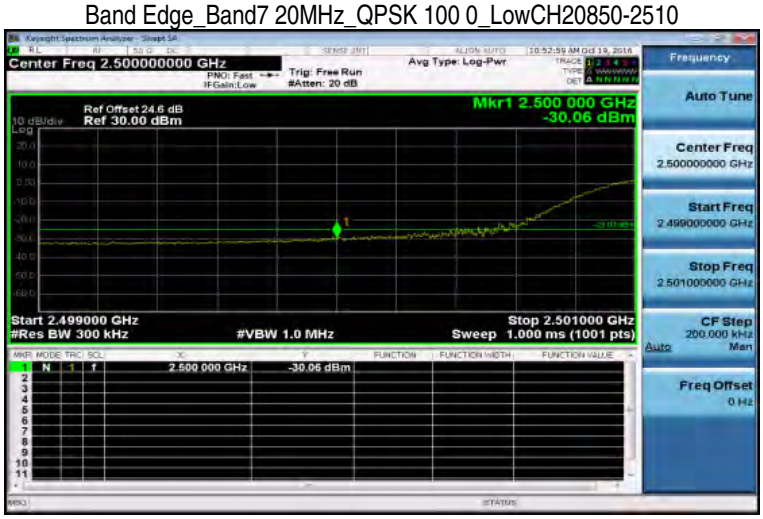
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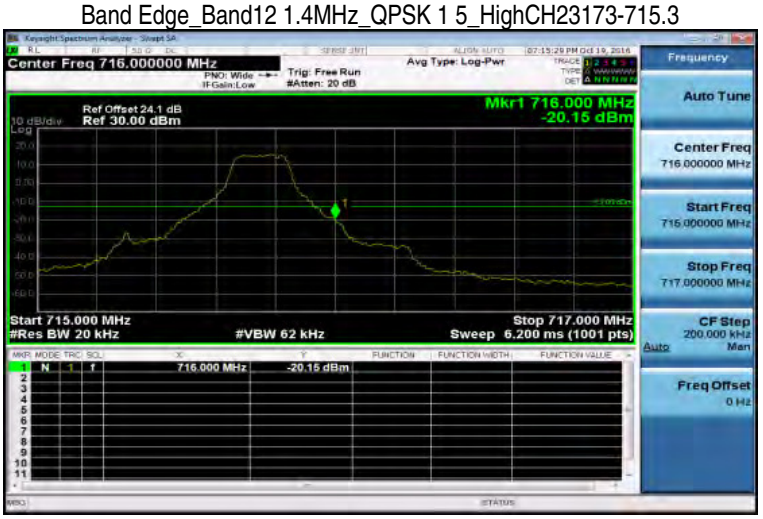
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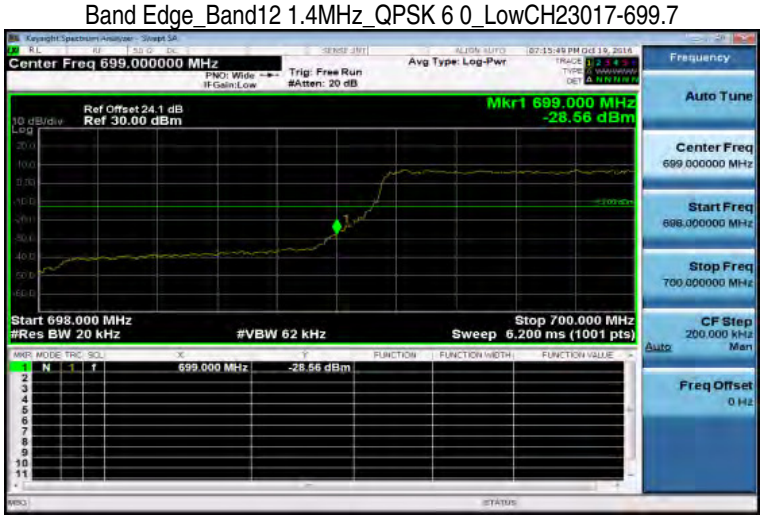


Band Edge_Band12 1.4MHz_QPSK 1 5_HighCH23173-715.3

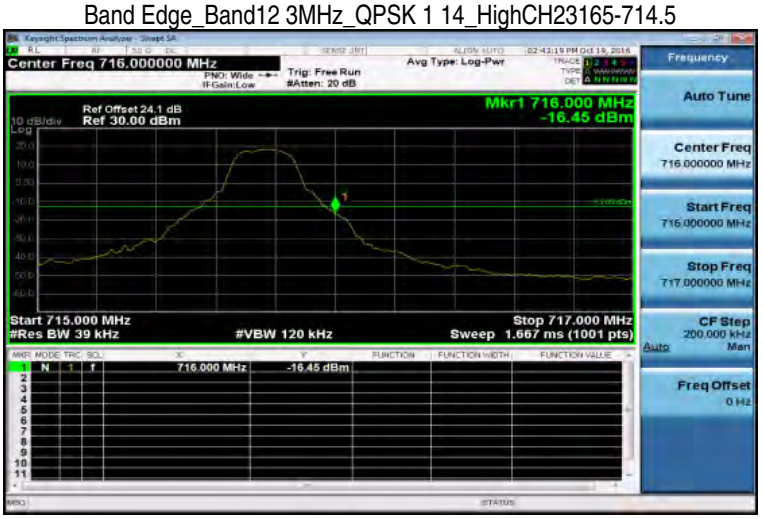


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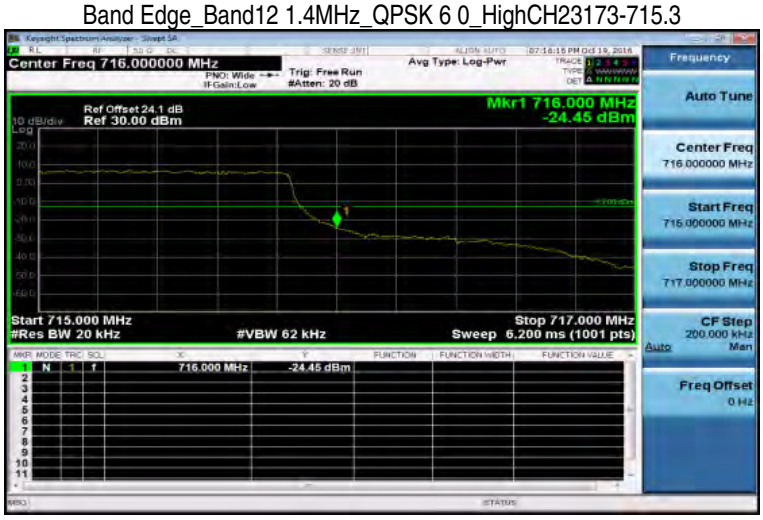
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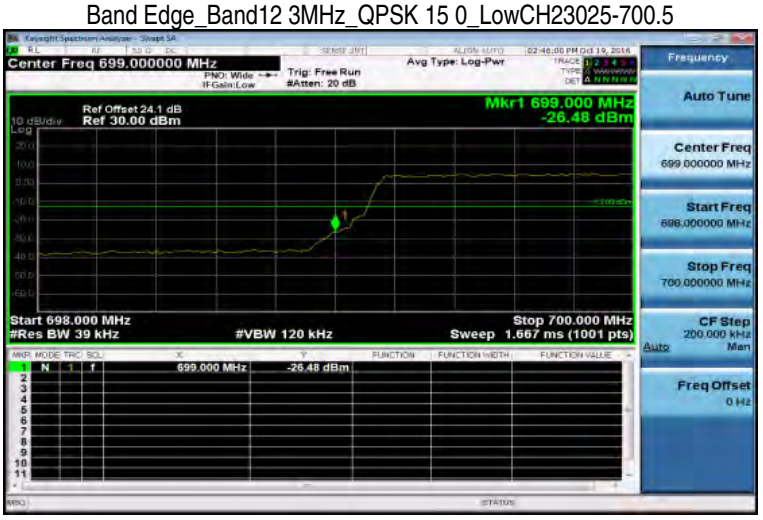
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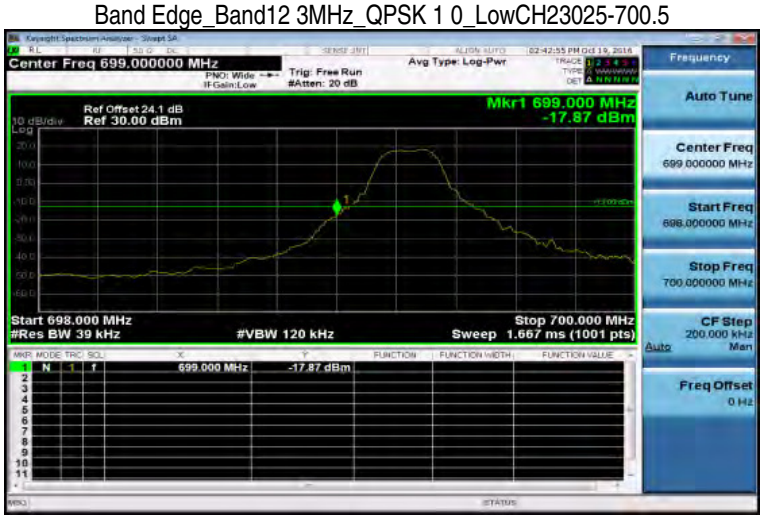
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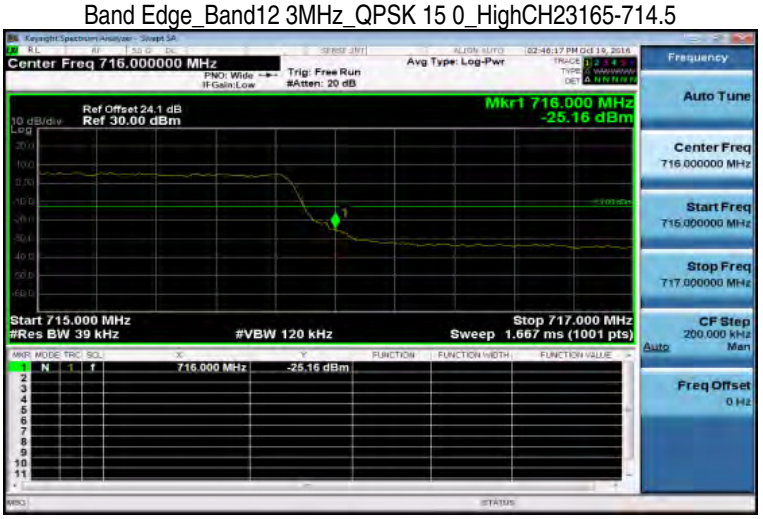
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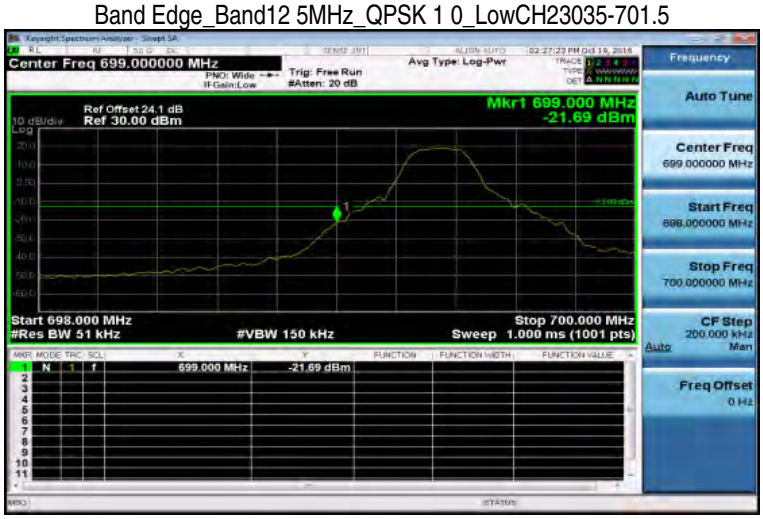


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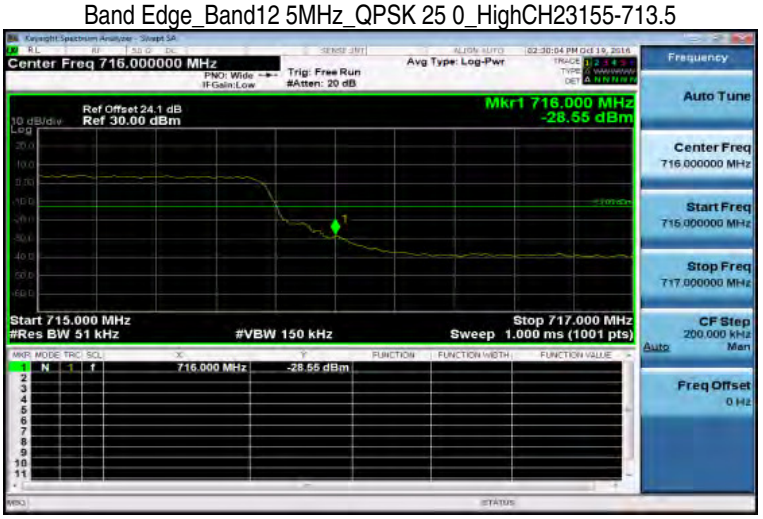


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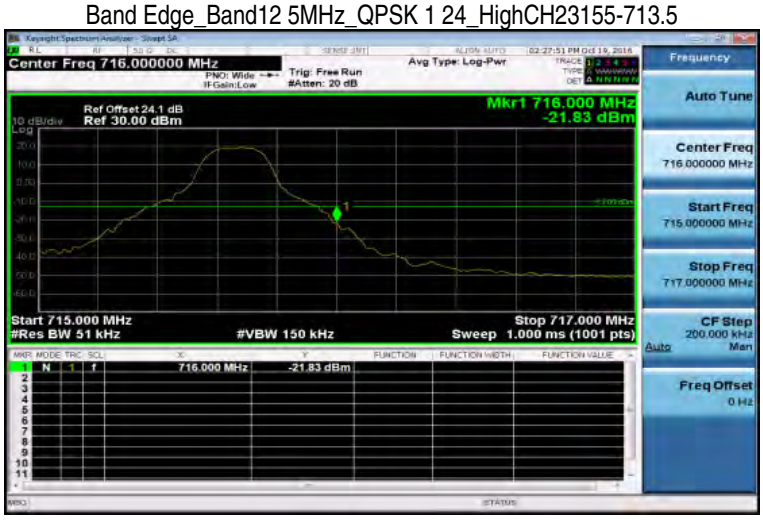
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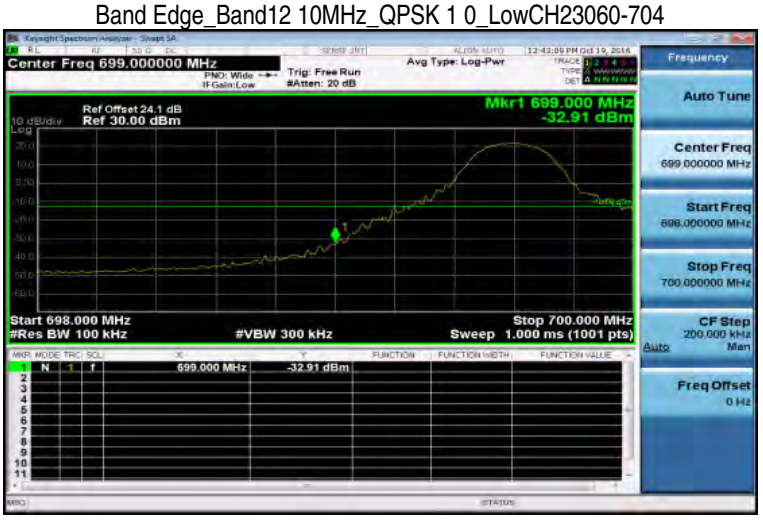
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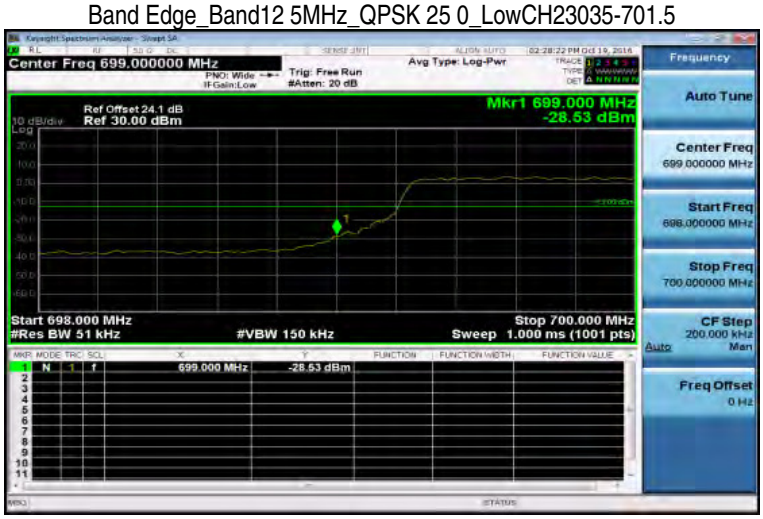
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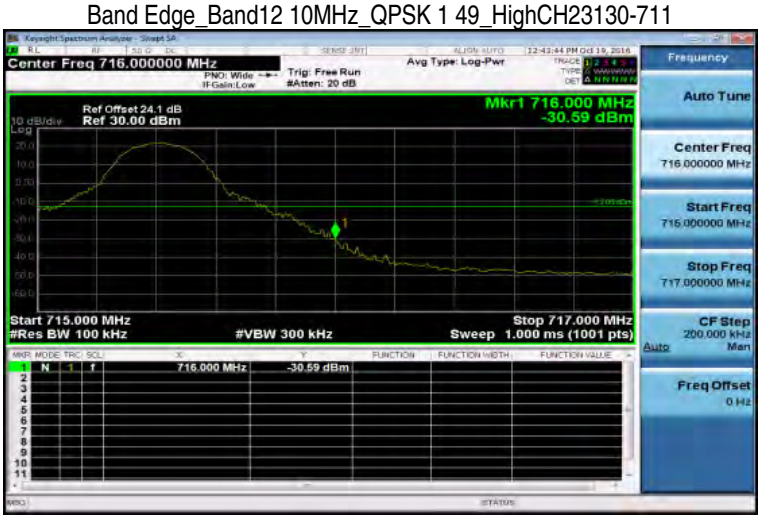
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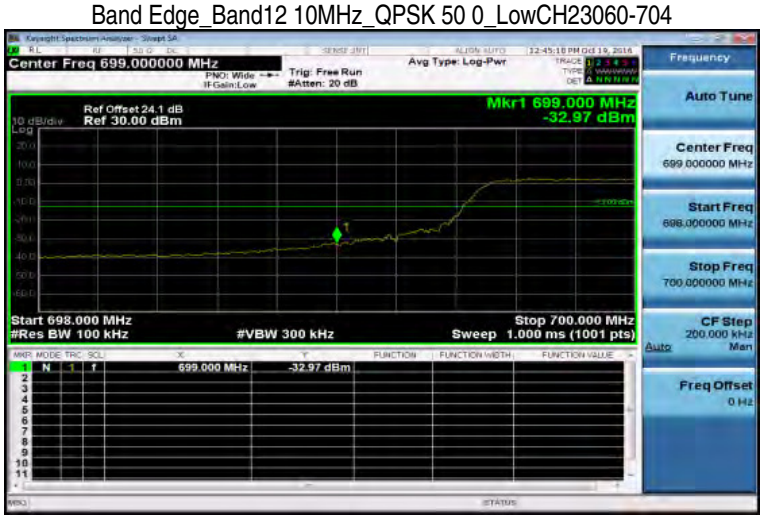


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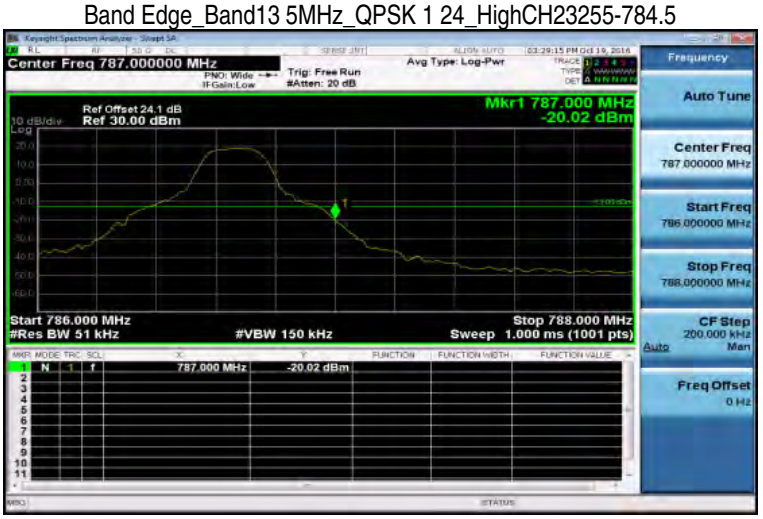


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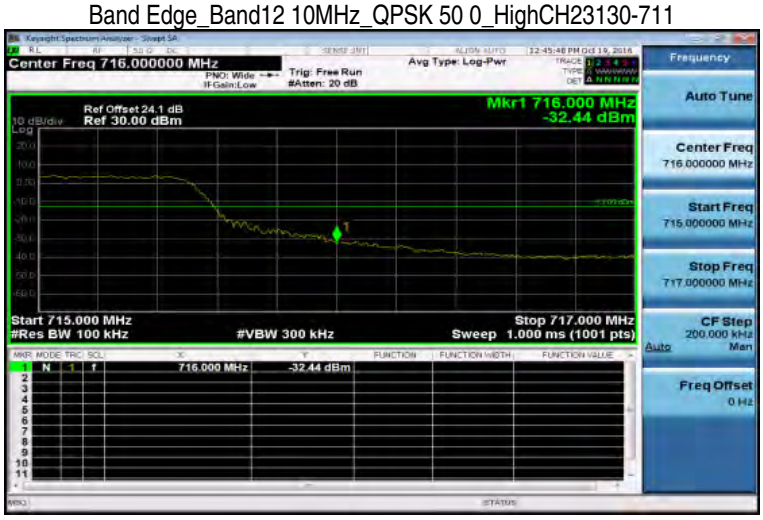
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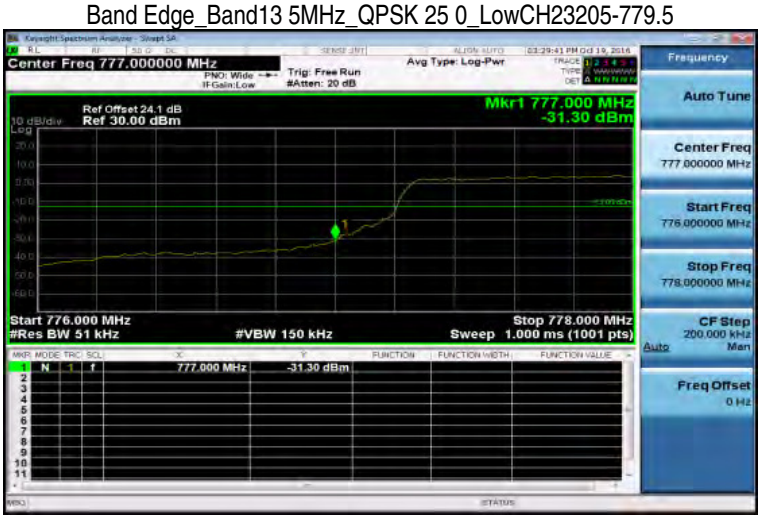
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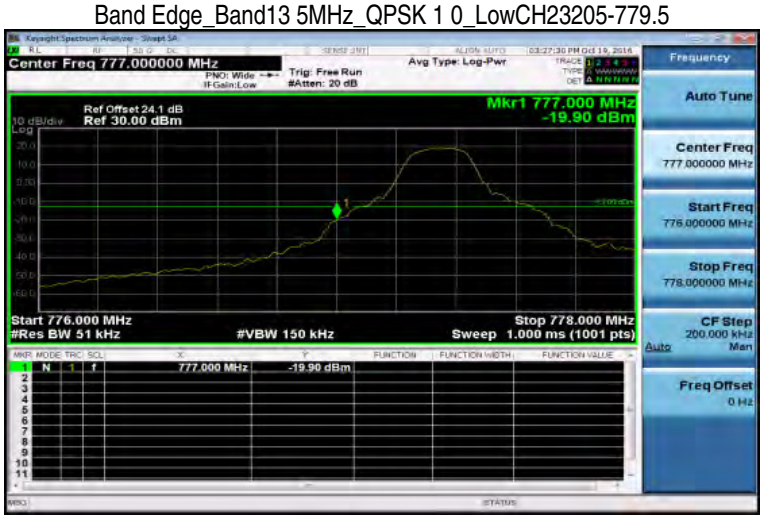
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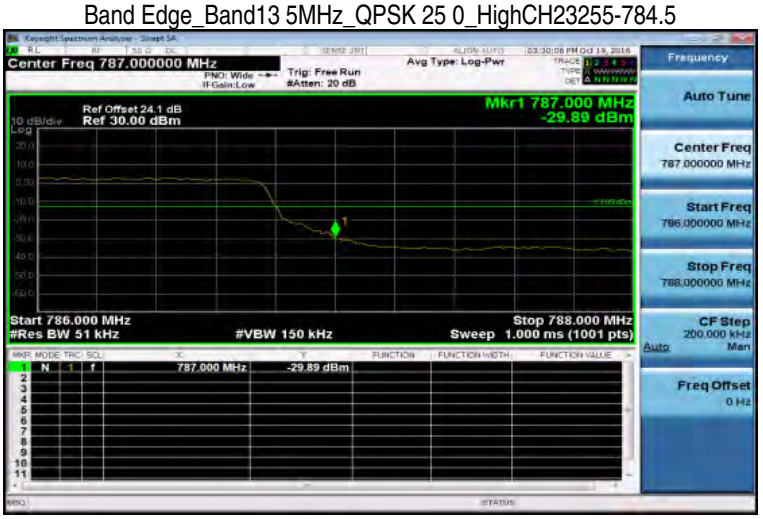
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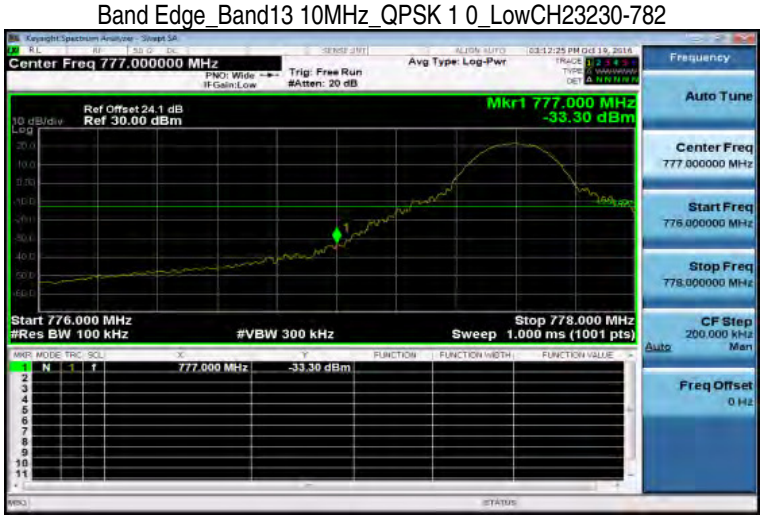


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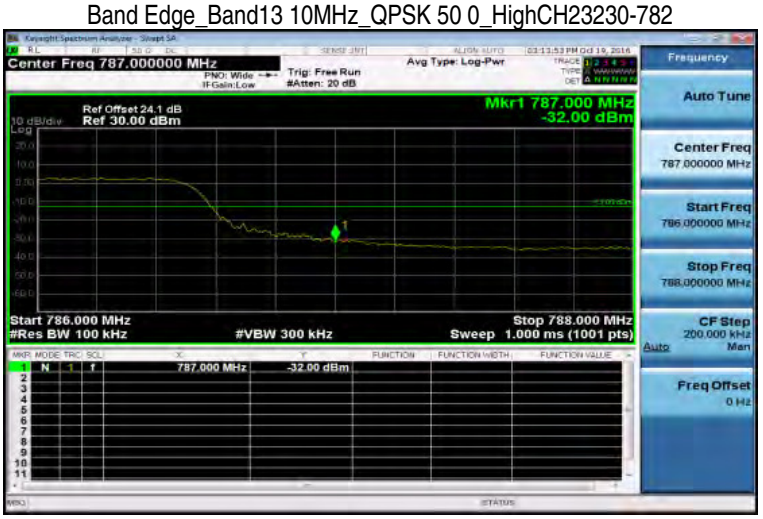


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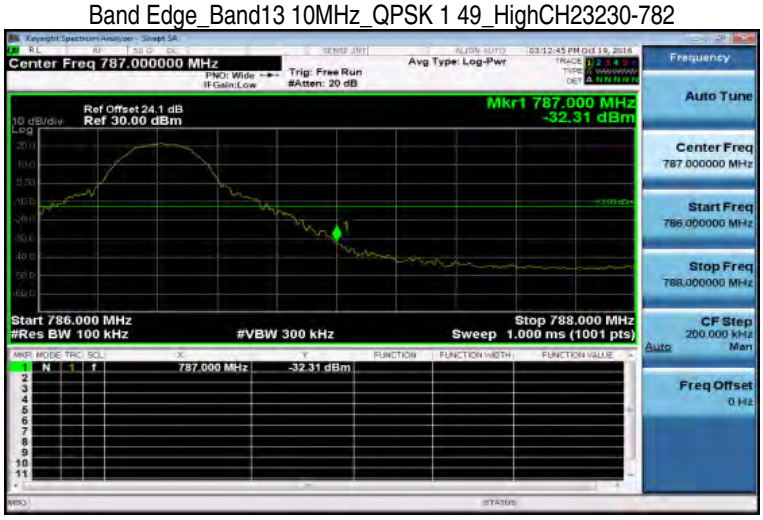
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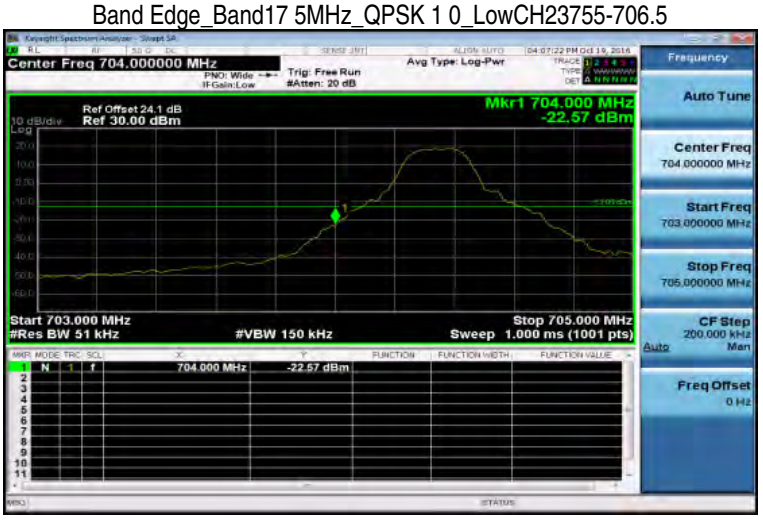
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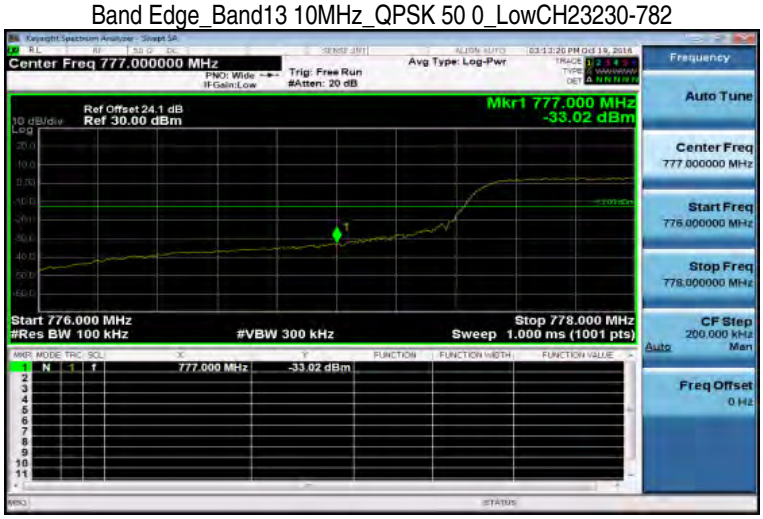
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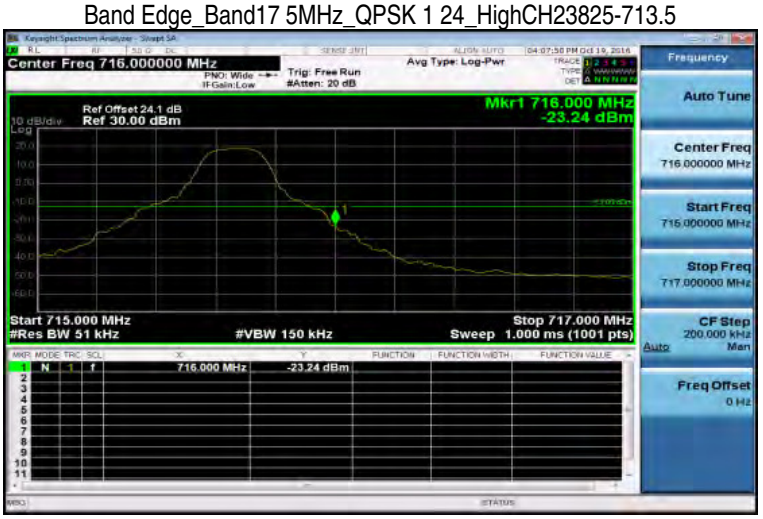
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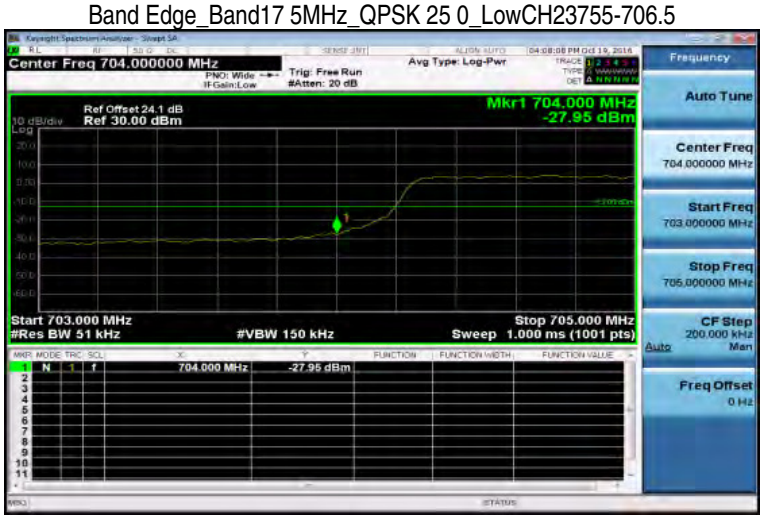


Band Edge_Band17 5MHz_QPSK 1 24_HighCH23825-713.5

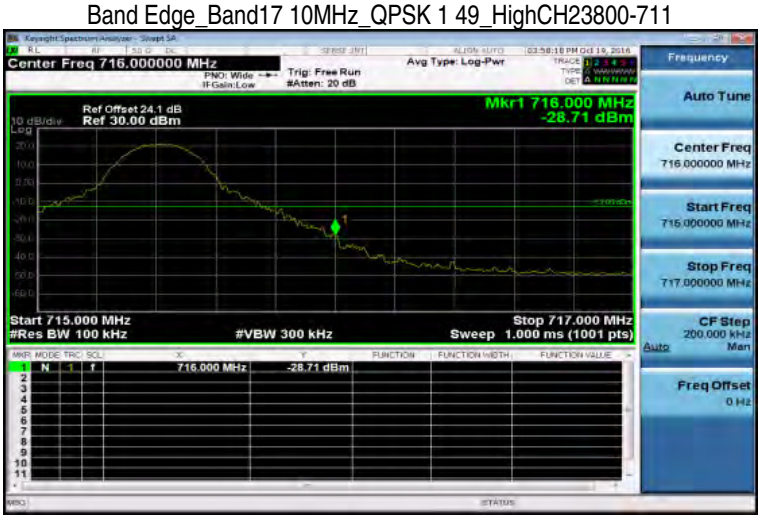


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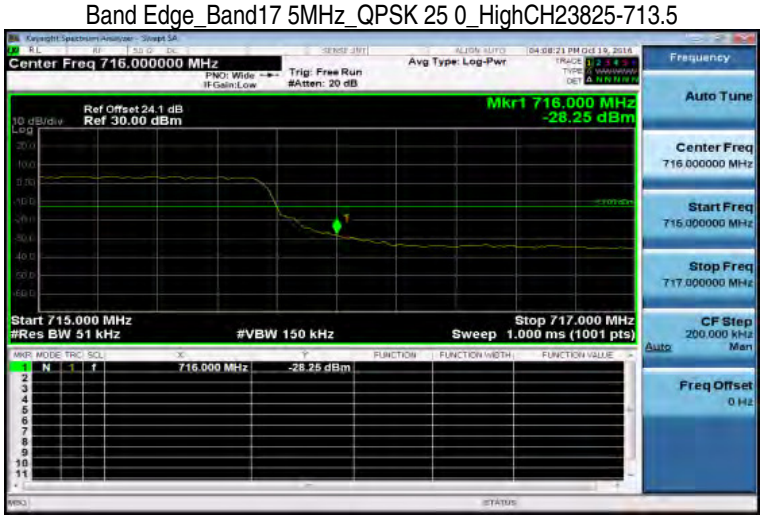
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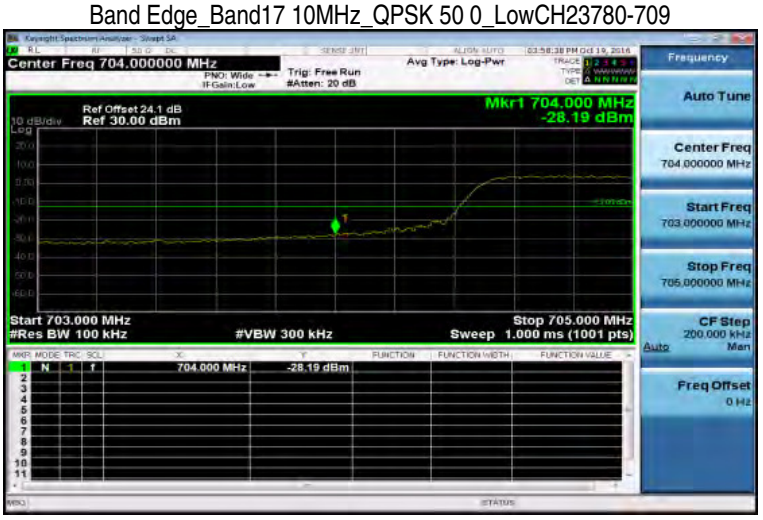
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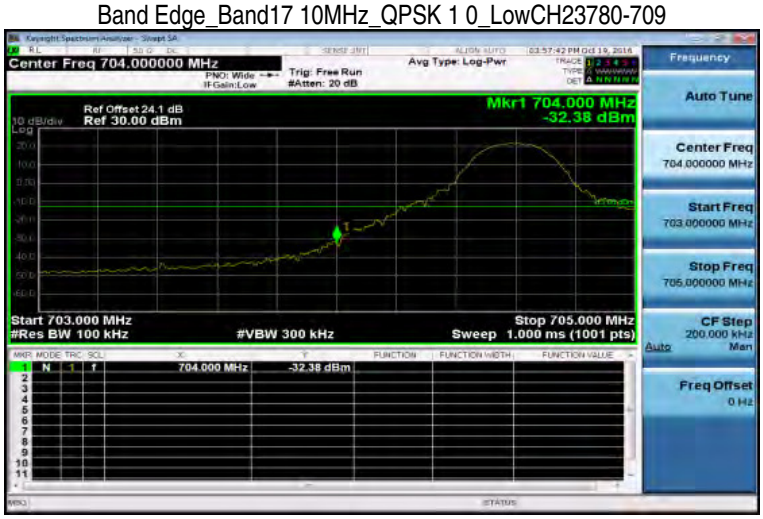
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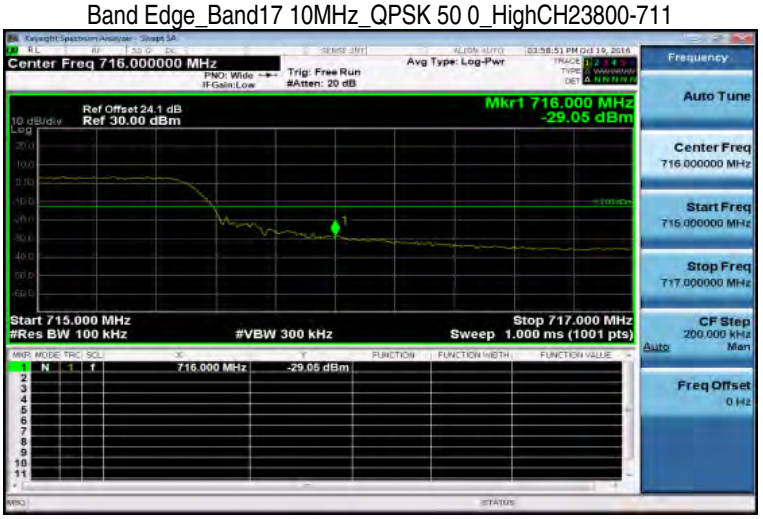
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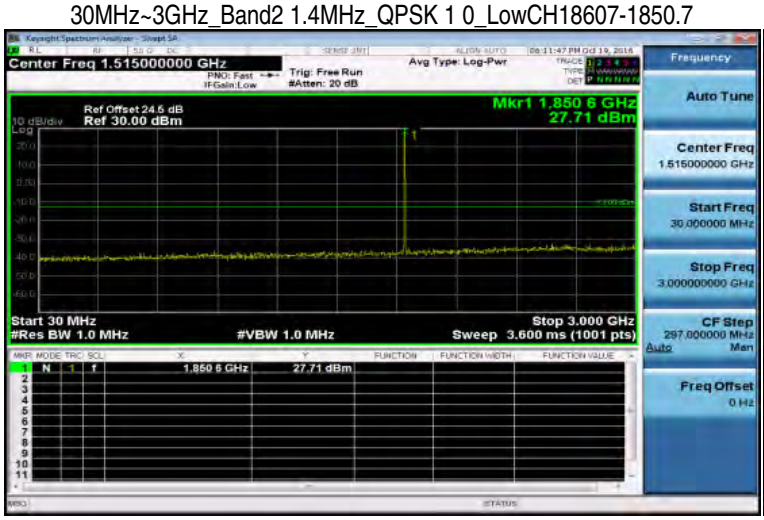


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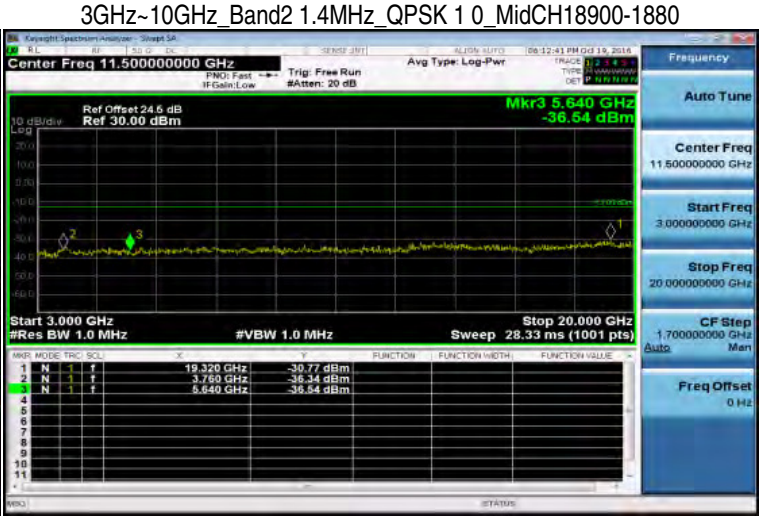


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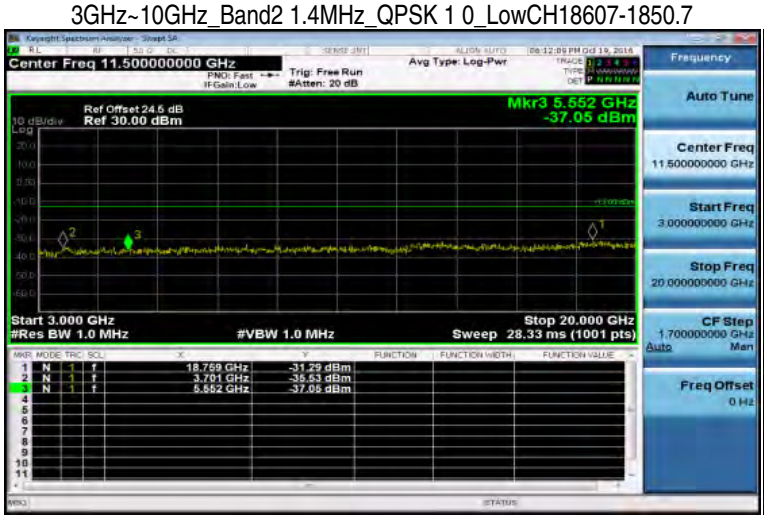
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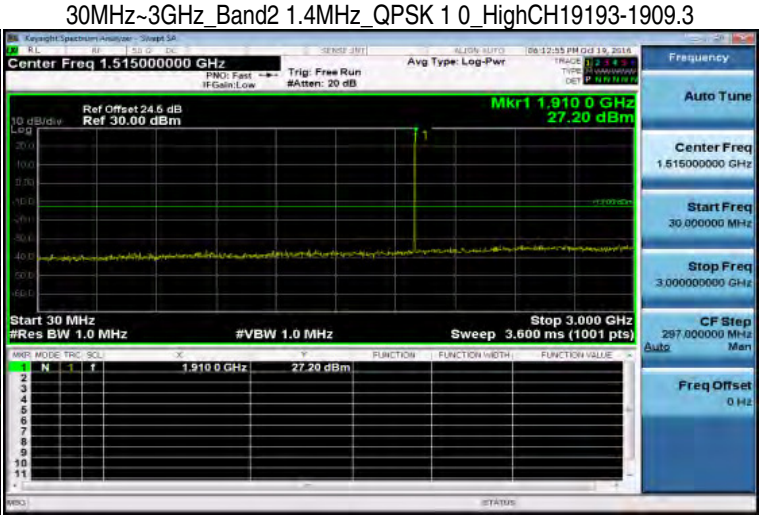
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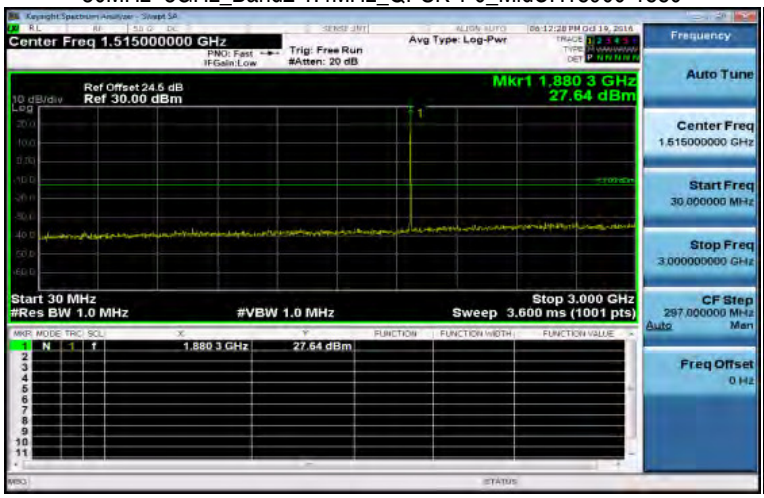
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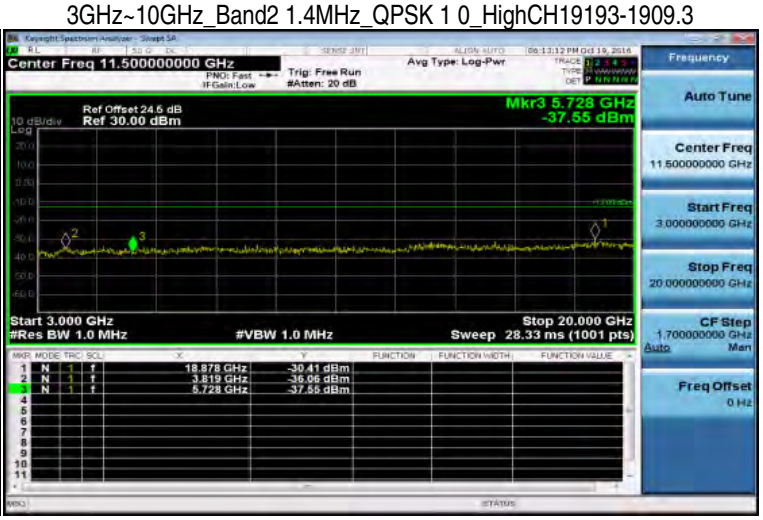
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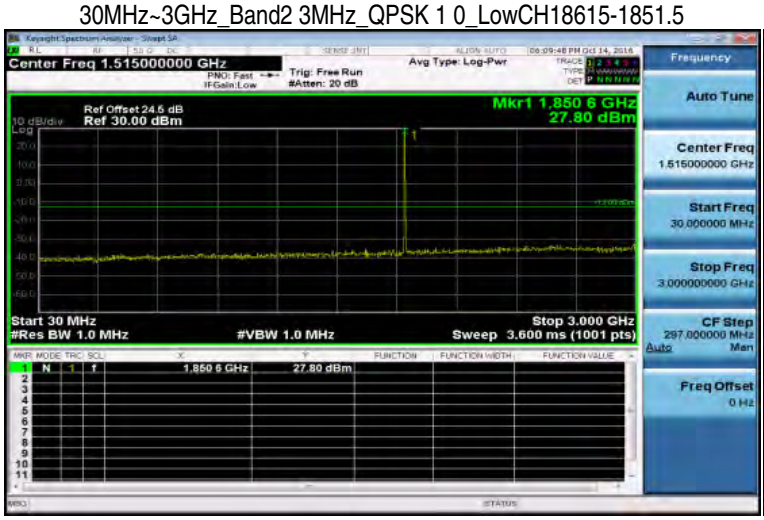


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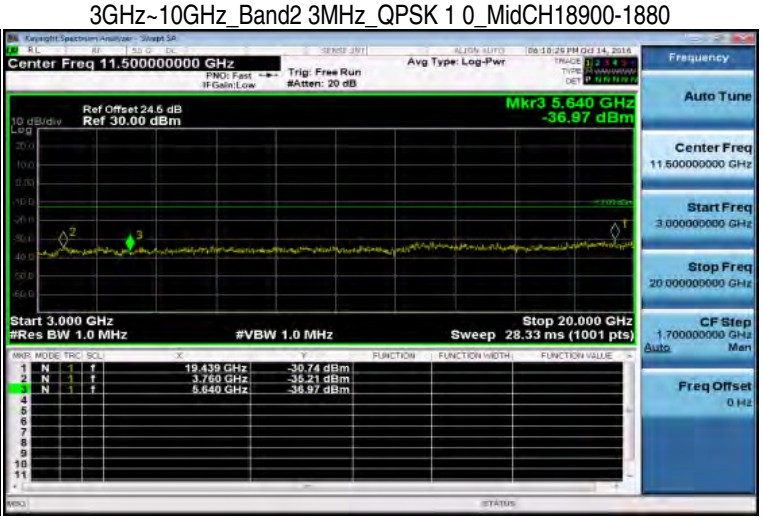


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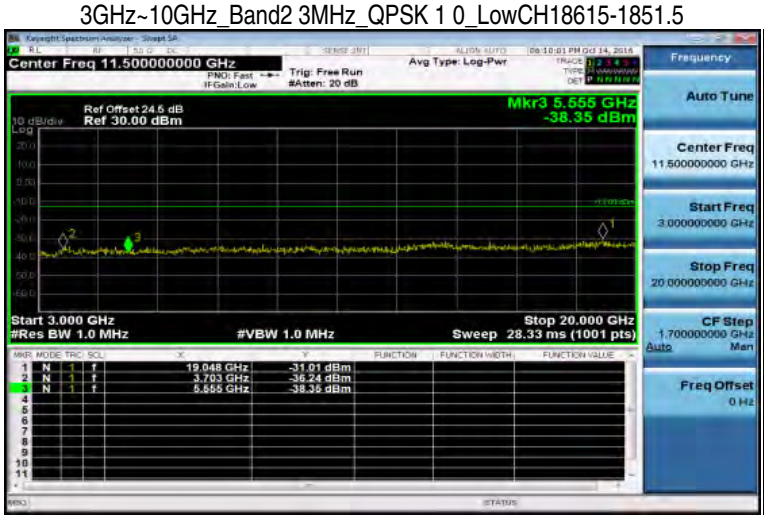
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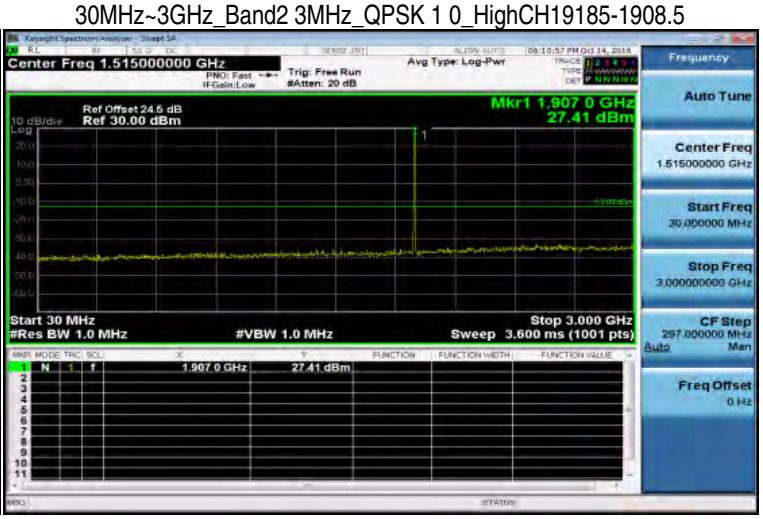
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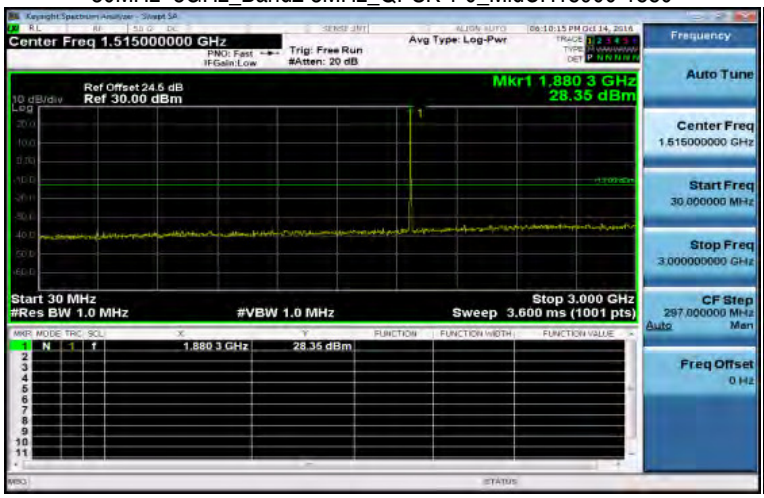
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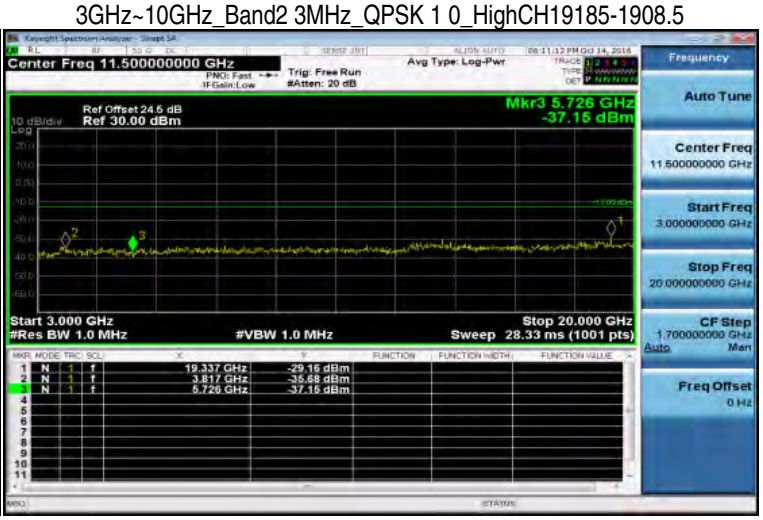
30MHz~3GHz_Band2 3MHz_QPSK 1 0_HighCH19185-1908.5



30MHz~3GHz_Band2 3MHz_QPSK 1 0_MidCH18900-1880



3GHz~10GHz_Band2 3MHz_QPSK 1 0_HighCH19185-1908.5



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